

Ref. No. JKJharli/PC-01/929

Dated - 29th November, 2021

The Member Secretary
State Level Environment Impact
Assessment Authority, Bay No. 55-58
Paryatan Bhawan
Sector - 2, Panchkula
Haryana

Sub: Submission of EC Compliance Report (April 2021-September 2021) for J.K. Cement, Jharli, Jhajjar, Haryana.

Ref :- EC letter no. SEIAA/HR/2013/647 Dated 04.09.2013

Sir,

We are attaching herewith Half yearly Compliance Report for our clinker grinding unit of 2.0 Million TPA at Jharli, Jhajjar.

We trust you will find the same in order. This is for your kind reference and record. We are complying with all the required conditions of HSPCB.

Kindly acknowledge the receipt.

With regards,

**ANIRUDH DANI**

Unit Head

J. K. Cement Works, Jharli

Encl. : As above.

- C.C. - 1. The Member Secretary, HSPCB, Panchkula, Haryana
2. The Regional Officer, HSPCB, Bahadurgarh, Haryana
3. The Regional Office, MoEF, Chandigarh, Haryana

Corporate Office

- Padam Tower, 19, DDA Community Centre,
Okhla, Phase - 1, New Delhi - 110020, India
+011-49220000
admin.padamtower@jkcement.com
www.jkcement.com



**JK SUPER
CEMENT**
BUILD SAFE

Manufacturing Units at :

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

**JK CEMENT
WallMaxX**
White Cement Wall Putty



J.K. Cement Ltd. At Village- Jharli, Tehsil Matanhail, District-Jhajjar(HR)
(EC No. SEIAA/HR/2013/647 dated 04-09-2013)

Six monthly EC compliance report for the period from April 2021 to September 2021 Dated: 27.11.2021




Part A. - Specific Conditions

Sr. No.	Condition	Reply																																																	
1.	Particulate emission shall be controlled within 50 mg/Nm ³ by installing adequate air pollution control system viz. Bag House filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Chandigarh, SEIAA Haryana, HSPCB, Panchkula and CPCB regularly.	<p>Being Complied.</p> <p>Bag house and bag filters has been provided at various points and Particulate emission is being maintained well within prescribed limit. Ambient air, fugitive and stack emissions monitoring reports is being submitted regularly to the Ministry's Regional Office at Chandigarh, SEIAA Haryana, HSPCB, Panchkula and CPCB. Copy of Monitoring reports are enclosed as Annexure-1.</p> <p>Six monthly (April-September 2021) Ambient air monitoring Average report is given below:- Results are in (µg/M³)</p> <table><tr><th>Location</th><th>PM2.5</th><th>PM10</th><th>SO₂</th><th>NO_x</th></tr><tr><td>L1</td><td>50.4</td><td>89.6</td><td>11.1</td><td>30.2</td></tr><tr><td>L2</td><td>49.4</td><td>83.9</td><td>9.0</td><td>30</td></tr><tr><td>L3</td><td>54.7</td><td>94.7</td><td>9.3</td><td>30</td></tr><tr><td>L4</td><td>44.7</td><td>81.8</td><td>9.5</td><td>28.7</td></tr></table> <p>Location:- L1- Near Gate-1, L2- Near Gate -2, L3- Near railway line side and L4- Near Wagon tippler</p> <p>Six monthly (April-September 2021) Cement Mill Stack monitoring Average report is given below:- Results are in (Mg/NM³)</p> <table><tr><th>Location/Month</th><th>Cement Mill</th></tr><tr><td>April 2021</td><td>20.3</td></tr><tr><td>May 2021</td><td>17.4</td></tr><tr><td>June 2021</td><td>13.1</td></tr><tr><td>July 2021</td><td>16.0</td></tr><tr><td>August 2021</td><td>14.5</td></tr><tr><td>September 2021</td><td>17.5</td></tr></table> <p>Six monthly (April-September 2021) Fugitive emission monitoring Average report is given below:- Results are in (µg/M³)</p> <table><tr><th>Location</th><th>SPM</th></tr><tr><td>Near Unloading Area</td><td>1150</td></tr><tr><td>Near Cement Mill</td><td>1200</td></tr><tr><td>Near Flyash Silo</td><td>1250</td></tr><tr><td>Near Packing Area</td><td>1340</td></tr></table>	Location	PM2.5	PM10	SO ₂	NO _x	L1	50.4	89.6	11.1	30.2	L2	49.4	83.9	9.0	30	L3	54.7	94.7	9.3	30	L4	44.7	81.8	9.5	28.7	Location/Month	Cement Mill	April 2021	20.3	May 2021	17.4	June 2021	13.1	July 2021	16.0	August 2021	14.5	September 2021	17.5	Location	SPM	Near Unloading Area	1150	Near Cement Mill	1200	Near Flyash Silo	1250	Near Packing Area	1340
Location	PM2.5	PM10	SO ₂	NO _x																																															
L1	50.4	89.6	11.1	30.2																																															
L2	49.4	83.9	9.0	30																																															
L3	54.7	94.7	9.3	30																																															
L4	44.7	81.8	9.5	28.7																																															
Location/Month	Cement Mill																																																		
April 2021	20.3																																																		
May 2021	17.4																																																		
June 2021	13.1																																																		
July 2021	16.0																																																		
August 2021	14.5																																																		
September 2021	17.5																																																		
Location	SPM																																																		
Near Unloading Area	1150																																																		
Near Cement Mill	1200																																																		
Near Flyash Silo	1250																																																		
Near Packing Area	1340																																																		

J.K. Cement Ltd. At Village- Jharli, Tehsil Matanhail, District-Jhajjar(HR)

(EC No. SEIAA/HR/2013/647 dated 04-09-2013)


Six monthly EC compliance report for the period from April 2021 to September 2021 Dated: 27.11.2021

2.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 should be followed.	Being Complied. Please refer annexure-1
3.	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits by the Ministry and regularly monitored Guidelines/Code of Practice issued by the CPCB should be followed.	Being Complied. Please refer annexure-1
4.	The Company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, vehicular movements, bagging and packing areas etc. All the raw material stock piles shall be covered. A closed clinker stockpile system shall be provided. All conveyers shall be covered with GI sheets. Covered sheds for storage of raw materials shall be provided besides cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	<p>Complied</p> <p>3 nos. Bag houses at Cement mill stack and 23 nos bag filters at various transfer points, bagging and packing area. To control fugitive emission due to vehicle movement paved road has been constructed and vacuum road sweeping machine is in practiced regularly. Cement, Fly ash and clinker are being stored in silos. Covered shed has been provided for raw material storage. Covered conveyors belt has been provided for the transportation of the raw material. Pneumatic system has been provided for fly ash handling.</p>   
5.	Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<p>Being Complied.</p> <p>Concrete road has been constructed and vacuum road sweeping machine is in practice and water spray is being carried out regularly at loading/unloading area to control fugitive emission.</p> <p>Ambient air quality parameters are being monitored regularly and result are well within limit. For results please refer annexure-1.</p>
6.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and should not be overloaded. Vehicular emission should be regularly monitored. The vehicles should have Pollution under Control Certificate.	<p>Being Complied.</p> <p>All raw material including fly ash are being transported in the closed containers and no overloading is permitted Vehicles are allowed only with the Pollution under Control Certificate (PUC) to transport the raw material within the Plant site.</p>
7.	Total ground water requirement for the Cement plant shall not exceed 300 m ³ /day and necessary permission for the drawl shall be obtained. 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	<p>Being complied.</p> <p>NOC from CGWA has been obtained for withdrawal of ground water. Total water consumption will not have exceeded 300 m³/day. Treated waste water is being reused in process and green belt</p>

J.K. Cement Ltd. At Village- Jharli, Tehsil Matanhail, District-Jhajjar(HR)

(EC No. SEIAA/HR/2013/647 dated 04-09-2013)

Six monthly EC compliance report for the period from April 2021 to September 2021 Dated: 27.11.2021

	related activities etc. No process wastewater shall be discharged outside the factory premises and "zero" discharge shall be adopted.	development within the Plant site only. Being a dry process based industry there is no any process waste water generated. Zero Liquid discharge facility is being maintained.
8.	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.	Being complied. 11 nos of rain water harvesting pits has been constructed to recharge the ground water table.
9.	All the bag filter dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers/ re-processors only.	Being complied. All the bag filter dust, clinker dust and cement dust from pollution control devices is being recycled and reused in the process for cement manufacturing. Spent oil and batteries is being sold to authorized recyclers/ re- processors.
10.	Green belt shall be developed in at least 33% area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	Being complied. 33% of total project area is 9.45 ha. Total 9000 plants has been planted till June 2021 with covering 9.3093 ha. 
11.	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the SEIAA Haryana/ RO MoEF, GOI, Chandigarh. Implementation of such program should be ensured accordingly in a time bound manner.	Complied CSR/CER activities are being done regularly in nearby area. Details of CSR/CER expenditure is enclosed as. Annexure-2.
12.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, 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.	Complied.
13.	The Sewage Treatment Plant (STP) of 60 KLD capacity shall be installed for the treatment of the sewage to the prescribed standards including odour and treated effluent will be recycled to achieve zero exit discharge. The installation of STP should be certified by an independent expert and a report in this regard should be submitted to the SEIAA, Haryana before the project is commissioned for operation. Tertiary treatment of waste water is mandatory. Discharge of treated sewage shall conform to the norms and standards of HSPCB, Panchkula. Project proponent shall implement such as STP technology which does not require filter backwash	Being complied We have installed the STP of 60 KLD capacity for treatment of the sewage to the prescribed standards including odour and treated effluent will be recycled and reused in horticulture to achieve zero exit discharge. STP installation has been certified by M/s Apex Water. Installed STP does not require filter back wash. STP water analysis report is attached as annexure-3
14.	The sludge generated shall be treated and used as manure.	Sludge generated from STP is being used as manure in greenbelt/ plantation.

J.K. Cement Ltd. At Village- Jharli, Tehsil Matanhail, District-Jhajjar(HR)

(EC No. SEIAA/HR/2013/647 dated 04-09-2013)



Six monthly EC compliance report for the period from April 2021 to September 2021 Dated: 27.11.2021

Part B.- General Conditions

Sr. No.	Condition	Reply
(i)	The project authority must strictly adhere to the stipulations made by the Haryana State Pollution Control Board and the State Government.	Being Complied
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Haryana	Agreed and Noted No further expansion or modifications in the plant will be carried out without prior approval of the SEIAA, Haryana.
(iii)	The gaseous emissions from various process units shall conform to the load/mass based standards notified by Ministry on 19 th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Being Complied Emission from process is being maintained well within prescribed standards notified by Ministry on 19 th May, 1993. For results please refer annexure-1.
(iv)	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM _{2.5} , PM ₁₀ , SO ₂ , NO _x is anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to SEIAA including Regional Office MoEF, GOI at Chandigarh the HSPCB Panchkula once in six months.	Four ambient air quality monitoring stations has been established in consultation with the SPCB and regular monitoring has been carried out for parameter PM _{2.5} , PM ₁₀ , SO ₂ , NO _x . Monitoring reports is being submitted regularly to SEIAA including Regional Office MoEF, GOI at Chandigarh the HSPCB Panchkula once in six months. For results please refer annexure-1.
(v)	The overall noise levels in and around plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	Acoustic hood, silencers and enclosures etc has been provided at various noise generating sources. Regular noise monitoring is being done regularly and results are well within prescribed limit under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time). Location:- L1- Near Gate-1, L2- Near Gate -2, L3- Near railway line side and L4- Near Wagon tippler
(vi)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being done on a regular basis and records maintained as per the Factories Act. Total 98 nos of employee has been examined from April 2021 to September 2021. Reports are enclosed as annexure-4.
(vii)	The company shall develop at least three surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	5 Nos of rain water harvesting pits along with 6 Nos injection well structure has been constructed for recharging the ground water. Photographs of Rainwater harvesting structures:-

J.K. Cement Ltd. At Village- Jharli, Tehsil Matanhail, District-Jhajjar(HR)
(EC No. SEIAA/HR/2013/647 dated 04-09-2013)


Six monthly EC compliance report for the period from April 2021 to September 2021 Dated: 27.11.2021

		 																								
(viii)	<p>The Project proponent shall also comply with all the environmental 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, educational programming, drinking water supply and health care etc.</p>	<p>Being Complied</p> <p>Environmental protection measures and safeguards is being implemented as per recommended in EIA/EMP report. Socio- economic developmental activities like community development programmes, educational programming and drinking water supply and health care is being conducted regularly. For Details please refer annexure-2.</p> <table><tr><td>Socio-economic development activities</td><td>Expenditure in Rs. Lakhs</td></tr><tr><td>Community development programmes</td><td>3.61</td></tr><tr><td>Educational programming</td><td>0.30</td></tr><tr><td>Drinking water supply</td><td>1.10</td></tr><tr><td>Health care</td><td>2.08</td></tr></table>	Socio-economic development activities	Expenditure in Rs. Lakhs	Community development programmes	3.61	Educational programming	0.30	Drinking water supply	1.10	Health care	2.08														
Socio-economic development activities	Expenditure in Rs. Lakhs																									
Community development programmes	3.61																									
Educational programming	0.30																									
Drinking water supply	1.10																									
Health care	2.08																									
(ix)	<p>As proposed Rs. 748 Lakh shall be earmarked towards capital cost and recurring cost /annum for environment pollution control measures and EMP to implement the conditions stipulated by the SEIAA Haryana, as well. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the SEIAA, Haryana Regional Office of the Ministry at Chandigarh. The funds so provided shall not be diverted for any other purpose.</p>	<p>Complied</p> <p>Status of EMP is given below:</p> <table><tr><th>Sr. No</th><th>Unit</th><th>Capital Cost (Rs.in Lakhs)</th><th>Total Recurring Cost Rs. (Lacs/Mo nth)</th></tr><tr><td>1.</td><td>APCM (Bag houses, Bag filters, Road sweeping machines,</td><td>560</td><td>1.58</td></tr><tr><td>2.</td><td>Hazardous Waste shed</td><td>1</td><td>0</td></tr><tr><td>3</td><td>STP</td><td>37</td><td>0</td></tr><tr><td>4.</td><td>Monitoring Cost</td><td>10</td><td>0.025</td></tr><tr><td>Total</td><td></td><td>608</td><td>1.61</td></tr></table>	Sr. No	Unit	Capital Cost (Rs.in Lakhs)	Total Recurring Cost Rs. (Lacs/Mo nth)	1.	APCM (Bag houses, Bag filters, Road sweeping machines,	560	1.58	2.	Hazardous Waste shed	1	0	3	STP	37	0	4.	Monitoring Cost	10	0.025	Total		608	1.61
Sr. No	Unit	Capital Cost (Rs.in Lakhs)	Total Recurring Cost Rs. (Lacs/Mo nth)																							
1.	APCM (Bag houses, Bag filters, Road sweeping machines,	560	1.58																							
2.	Hazardous Waste shed	1	0																							
3	STP	37	0																							
4.	Monitoring Cost	10	0.025																							
Total		608	1.61																							

J.K. Cement Ltd. At Village- Jharli, Tehsil Matanhail, District-Jhajjar(HR)

(EC No. SEIAA/HR/2013/647 dated 04-09-2013)

Six monthly EC compliance report for the period from April 2021 to September 2021 Dated: 27.11.2021

(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 suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied. EC Letter has been sent to concerned Panchayat, Zila Parishad/Municipal Corporation, Letter No. JKJharli/Env/135 dated 11 th , September 2013. Urban Local Body and the local NGO vide .EC letter has already been displayed on the Company's Website too. Copy of letter is enclosed as annexure-5
(xi)	The project proponent shall upload the status of the compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the SEIAA Haryana, Regional Office of the MoEF at Chandigarh and HSPCB, Panchkula. The criteria pollutant levels namely; PM _{2.5} , PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectorial 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.	EC compliance report including results of monitored data is being uploaded on the company's website regularly and the same has been submitted to SEIAA, Haryana, Regional Office of MoEF, Chandigarh and HSPCB, Panchkula regularly. Critical sectorial parameters has been monitored and displayed at Main gate of Company in the public domain. 
(xii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA Haryana, Regional Office of MoEF, GoI at Chandigarh/HSPCB shall monitor the stipulated conditions.	Half yearly compliance report including monitored data is submitted regularly to SEIAA Haryana, Regional Office of MoEF, GoI at Chandigarh and HSPCB, Panchkula in hard and soft copy. Last half yearly compliance report was submitted vide letter Dated On 22 nd May 2021 Ref No. JKJharli/PC-01/893.
(m)	The environmental statement for each financial year ending 31st 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 the compliance if environmental conditions and shall also be sent to SEIAA Haryana and regional office of the MoEF at Chandigarh by e-mail.	Environmental Statement of each financial year being prepared and submitted to the concerned State Pollution Control Board. The same being displayed on the Company's website and sent to SEIAA Haryana and regional office of the MoEF at Chandigarh by e-mail. Environment Statement report for FY 2020-21 has been submitted vide Letter No. JKJharli/PC-01/925 dated 27.09.2021 enclosed annexure 6.

J.K. Cement Ltd. At Village- Jharli, Tehsil Matanhail, District-Jhajjar(HR)

(EC No. SEIAA/HR/2013/647 dated 04-09-2013)

Six monthly EC compliance report for the period from April 2021 to September 2021 Dated: 27.11.2021

(n)	The project proponent should inform the public that the project has been accorded Environmental Clearance by the SEIAA and copies of the clearance letter are available with the Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 Days from the date circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A Copy of Environment Clearance conditions shall also be put on project proponent's website for public awareness. 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.	Complied Environment Clearance has been publish in two local News Paper Viz. Dainik Bhaskar (on 09.09.2013) and Haribhoomi (on 10.09.2013) to inform the local public. Copy of EC and EC compliance is being uploaded regularly on company website for public awareness. The date of financial closure is 11.05.2014 and final approval of the project on 04.09.2013 by the concerned authorities SEIAA and the date of commencing the land development work is 31.03.2011
(o)	The SEIAA Haryana may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
(p)	The SEIAA Haryana reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted & Agreed.
(q)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,1986, Hazardous Wastes (Management, Handling & Transboundary movement) Rules,2008 and Public (Insurance)Liability Act,1991 along with their amendments and rules.	Noted & Agreed.
(r)	The project proponent shall provide for adequate fire safety measures and equipments as required by Haryana Fire Service Act, 2009 and instructions issued by the local Authority/Directorate of fire from time to time. Further the project proponent shall take necessary permission regarding fire safety scheme/ NOC from competent Authority is required.	Fire safety equipment and measures has been provided and obtained approval for firefighting scheme from Haryana Fire Service Act, 2009. Copy of the same is enclosed as Annexure-7



Test Report

Sample Number: VEL/JKCW/A/01
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/001
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 09/06/2021
Period of Analysis: 04/06/2021 to 09/06/2021
Receipt Date: 04/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 02/06/2021 to 03/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 29.0 Max. 43.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	47.36	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	86.51	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.84	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.12	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



VEL/EN/TR/PN3345



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/02
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/002
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 09/06/2021
Period of Analysis: 04/06/2021 to 09/06/2021
Receipt Date: 04/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -2
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 02/06/2021 to 03/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 29.0 Max. 43.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	48.11	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	87.36	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.04	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.88	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

KOMAL SINGH

(Tested By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/03
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/003
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 09/06/2021
Period of Analysis: 04/06/2021 to 09/06/2021
Receipt Date: 04/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 02/06/2021 to 03/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 29.0 Max. 43.0
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	45.84	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	83.65	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	13.49	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.96	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/04
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/004
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 09/06/2021
Period of Analysis: 04/06/2021 to 09/06/2021
Receipt Date: 04/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Wagon Tippler
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 02/06/2021 to 03/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 29.0 Max. 43.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Yes
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	43.69	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	82.48	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.80	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.08	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

KOMAL SINGH

(Tested By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/05
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/005
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 14/06/2021
Period of Analysis: 09/06/2021 to 14/06/2021
Receipt Date: 09/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 07/06/2021 to 08/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 31.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	46.07	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	85.31	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.23	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.52	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

KOMAL SINGH

(Checked By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/06
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/006
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 14/06/2021
Period of Analysis: 09/06/2021 to 14/06/2021
Receipt Date: 09/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -2
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 07/06/2021 to 08/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 31.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	47.61	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	86.04	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.43	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.81	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

KOMAL SINGH

(Tested By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/07	Report No.:	VEL/A/2106/007
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	14/06/2021
		Period of Analysis:	09/06/2021 to 14/06/2021
		Receipt Date:	09/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Railway Line Side
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermittently Rain
Date of Monitoring	: 07/06/2021 to 08/06/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 31.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Sprinkling
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	46.25	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	85.33	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.02	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.74	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

KOMAL SINGH
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/08	Report No.:	VEL/A/2106/008
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	14/06/2021
		Period of Analysis:	09/06/2021 to 14/06/2021
		Receipt Date:	09/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Wagon Tippler
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermittently Rain
Date of Monitoring	: 07/06/2021 to 08/06/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 31.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Yes
Sampling & Analysis Protocol	: IS-5182& CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	41.58	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	80.26	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.37	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.98	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



VEL/E/N/TR/PN3352

www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenviromet.com, bd@vardanenviromet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/09
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/009
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 19/06/2021
Period of Analysis: 14/06/2021 to 19/06/2021
Receipt Date: 14/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 11/06/2021 to 12/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 36.0 Max. 42.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	49.55	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	88.26	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.67	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.55	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
(Checked By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/10	Report No.:	VEL/A/2106/010
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/06/2021
		Period of Analysis:	14/06/2021 to 19/06/2021
		Receipt Date:	14/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Gate No -2
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 11/06/2021 to 12/06/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 36.0 Max. 42.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Sprinkling
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	50.24	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	89.44	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.12	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	10.21	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/11
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/011
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 19/06/2021
Period of Analysis: 14/06/2021 to 19/06/2021
Receipt Date: 14/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 11/06/2021 to 12/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 36.0 Max. 42.0
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	51.12	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	90.56	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.22	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.89	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
(Tested By)

ARJUN RAWAT
(Checked By)

Gaurav
(Approved By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/12
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/012
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 19/06/2021
Period of Analysis: 14/06/2021 to 19/06/2021
Receipt Date: 14/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Wagon Tippler
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 11/06/2021 to 12/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 36.0 Max. 42.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Yes
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	49.52	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	87.95	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	13.87	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.96	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
(Tested By)

ARJUN RAWAT
(Checked By)

APPROVED
(Approved By)
Authorized Signatory



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/13	Report No.:	VEL/A/2106/013
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/06/2021
		Period of Analysis:	16/06/2021 to 21/06/2021
		Receipt Date:	16/06/2021

Sample Description: AMBIENT AIRQUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Gate No -1
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermittently Rain
Date of Monitoring	: 14/06/2021 to 15/06/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 26.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Sprinkling
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	46.11	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	87.24	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	13.28	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.67	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH

(Checked By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenviromet.com, bd@vardanenviromet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/14
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/014
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 21/06/2021
Period of Analysis: 16/06/2021 to 21/06/2021
Receipt Date: 16/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -2
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 14/06/2021 to 15/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 26.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	47.38	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	85.19	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.24	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.63	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SHI KH

(Checked By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/15
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/015
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 21/06/2021
Period of Analysis: 16/06/2021 to 21/06/2021
Receipt Date: 16/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 14/06/2021 to 15/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 26.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	45.86	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	84.75	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.96	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.10	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH

ANALYST
(Tested By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: :	VEL/JKCW/A/16	Report No.:	VEL/A/2106/016
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/06/2021
		Period of Analysis:	16/06/2021 to 21/06/2021
		Receipt Date:	16/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Wagon Tippler
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermittently Rain
Date of Monitoring	: 14/06/2021 to 15/06/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 26.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Yes
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	46.81	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	84.38	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.65	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.44	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH

(Checked By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/17
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/017
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 26/06/2021
Period of Analysis: 21/06/2021 to 26/06/2021
Receipt Date: 21/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan EnviroLab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 18/06/2021 to 19/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 32.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure If Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	48.55	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	89.26	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.02	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.15	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
(Tested By)

ARJUN RAWAT
(Checked By)

Gaurav
Singh
(Approved By)
Authorized Signatory



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/18
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/018
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 26/06/2021
Period of Analysis: 21/06/2021 to 26/06/2021
Receipt Date: 21/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Gate No -2
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermittently Rain
Date of Monitoring	: 18/06/2021 to 19/06/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 32.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Sprinkling
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	46.22	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	87.15	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.34	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.78	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH

ANALYST
(Tested By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/19
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/019
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 26/06/2021
Period of Analysis: 21/06/2021 to 26/06/2021
Receipt Date: 21/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 18/06/2021 to 19/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 32.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	44.02	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	81.63	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.49	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.45	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
(Checked By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/20	Report No.:	VEL/A/2106/020
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	26/06/2021
		Period of Analysis:	21/06/2021 to 26/06/2021
		Receipt Date:	21/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Wagon Tippler
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermittently Rain
Date of Monitoring	: 18/06/2021 to 19/06/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 32.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Yes
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	41.71	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	77.38	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	13.06	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.30	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
(Listed By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/21
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/021
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 28/06/2021
Period of Analysis: 23/06/2021 to 28/06/2021
Receipt Date: 23/06/2021

Sample Description: AMBIENT AIRQUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan EnviroLab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 21/06/2021 to 22/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 30.0 Max. 39.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	47.31	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	85.45	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.34	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.66	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/22
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/022
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 28/06/2021
Period of Analysis: 23/06/2021 to 28/06/2021
Receipt Date: 23/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -2
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 21/06/2021 to 22/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 30.0 Max. 39.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	45.10	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	83.45	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.63	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.82	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOIMAL SINGH

(Tested By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/23
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/023
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 28/06/2021
Period of Analysis: 23/06/2021 to 28/06/2021
Receipt Date: 23/06/2021

Sample Description: AMBIENT AIRQUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 21/06/2021 to 22/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 30.0 Max. 39.0
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	43.22	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	79.65	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	11.24	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.81	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH

(Tested By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/24	Report No.:	VEL/A/2106/024
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	28/06/2021
		Period of Analysis:	23/06/2021 to 28/06/2021
		Receipt Date:	23/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Wagon Tippler
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermittently Rain
Date of Monitoring	: 21/06/2021 to 22/06/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 30.0 Max. 39.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Yes
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	40.94	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	75.61	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	10.96	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.61	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH

(Checked By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/25
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/025
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 03/07/2021
Period of Analysis: 28/06/2021 to 03/07/2021
Receipt Date: 28/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 25/06/2021 to 26/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 32.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	45.28	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	83.72	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.31	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.53	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/26 Report No.: VEL/A/2106/026
Name & Address of the Party: M/s JK Cement Works Format No.: 7.8 F-01
Mohan Bari Road Jharli - 124106 Party Reference No.: NIL
Distt - Jhajjar (HARYANA) Reporting Date: 03/07/2021
Period of Analysis: 28/06/2021 to 03/07/2021
Receipt Date: 28/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -2
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 25/06/2021 to 26/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 32.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	46.57	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	84.62	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	17.23	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	10.16	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Checked By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/27
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/027
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 03/07/2021
Period of Analysis: 28/06/2021 to 03/07/2021
Receipt Date: 28/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 25/06/2021 to 26/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 32.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	43.15	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	81.96	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	13.65	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.01	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)

A
(Approved By)
Authorized Signatory



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/28 Report No.: VEL/A/2106/028
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA) Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 03/07/2021
Period of Analysis: 28/06/2021 to 03/07/2021
Receipt Date: 28/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Wagon Tippler
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Intermittently Rain
Date of Monitoring : 25/06/2021 to 26/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 32.0 Max. 41.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Yes
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	41.89	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	76.25	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	11.96	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.04	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
(Checked By)

ARJUN RAWAT
(Checked By)

Gaurav
Pratap Singh
(Approved By)
Authorized Signatory



www.vardan.co.in



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/29
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/029
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 05/07/2021
Period of Analysis: 30/06/2021 to 05/07/2021
Receipt Date: 30/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan EnviroLab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 28/06/2021 to 29/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 33.0 Max. 43.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	50.34	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	89.16	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	17.32	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	10.57	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH

(Analyst)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/30
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/030
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 05/07/2021
Period of Analysis: 30/06/2021 to 05/07/2021
Receipt Date: 30/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -2
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 28/06/2021 to 29/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min.33.0 Max. 43.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	48.54	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	88.62	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.35	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.67	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/31
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/031
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 05/07/2021
Period of Analysis: 30/06/2021 to 05/07/2021
Receipt Date: 30/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 28/06/2021 to 29/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 33.0 Max. 43.0
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	49.22	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	87.01	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.30	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.96	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH
ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)

Gaurav Singh
(Approved By)
Authorized Signatory



www.vardan.co.in



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/32
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2106/032
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 05/07/2021
Period of Analysis: 30/06/2021 to 05/07/2021
Receipt Date: 30/06/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Wagon Tippler
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 28/06/2021 to 29/06/2021
Time of Monitoring : 24 hours
Ambient Temperature (°C) : Min. 33.0 Max. 43.0
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Yes
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	48.15	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	84.91	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.88	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.20	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

KOMAL SINGH

(Tested By)

ARJUN RAWAT

(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/01 Report No.: VEL/A/2109/001
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA) Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 08/09/2021
Period of Analysis: 04/09/2021 to 08/09/2021
Receipt Date: 04/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 03/09/2021 to 04/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 30.0°C Max. 38.0°C
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01. Section No. SP 63	34.15	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	56.05	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	19.34	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	10.45	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Amitabh Dubey

ABHINAV RAYAT
(Checked By)
Abhinav Rayat



www.vardan.co.in



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/02	Report No.:	VEL/A/2109/002
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	08/09/2021
		Period of Analysis:	04/09/2021 to 08/09/2021
		Receipt Date:	04/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Gate No -2
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 03/09/2021 to 04/09/2021
Time of Monitoring	: 24.0 hours
Ambient Temperature (°C)	: Min. 30.0°C Max. 38.0°C
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Sprinkling
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	32.11	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	56.54	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	17.05	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.31	µg/m ³	80

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/03	Report No.:	VEL/A/2109/003
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	08/09/2021
		Period of Analysis:	04/09/2021 to 08/09/2021
		Receipt Date:	04/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Railway Line Side
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	03/09/2021 to 04/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 30.0°C Max. 38.0°C
Surrounding Activity	Human, Vehicular and Rail activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	32.87	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	54.01	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.92	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.64	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009,

#SOP Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)
Ami Dubey

ARJUN RAWAT
(Checked By)
Arjun Rawat



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/04	Report No.:	VEL/A/2109/004
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	08/09/2021
		Period of Analysis:	04/09/2021 to 08/09/2021
		Receipt Date:	04/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Wagon Tippler
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	03/09/2021 to 04/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 30.0°C Max. 38.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Yes
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	33.84	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	54.95	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.63	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.28	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/05	Report No.:	VEL/A/2109/005
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	11/09/2021
		Period of Analysis:	07/09/2021 to 11/09/2021
		Receipt Date:	07/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Gate No -1
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Cloudy Sky
Date of Monitoring	06/09/2021 to 07/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 29.0°C Max. 37.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	37.25	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	58.06	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.12	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.96	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Ami Dubey

ARJUN RAWAT
(Checked By)
Arjun Rawat



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/06	Report No.:	VEL/A/2109/006
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	11/09/2021
		Period of Analysis:	07/09/2021 to 11/09/2021
		Receipt Date:	07/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Gate No -2
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Cloudy Sky
Date of Monitoring	: 06/09/2021 to 07/09/2021
Time of Monitoring	: 24.0 hours
Ambient Temperature (°C)	: Min. 29.0°C Max. 37.0°C
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Sprinkling
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	36.22	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	55.71	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.65	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.76	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)
Amitabh Dubey

ARJUN RAWAT
(Checked By)
Arjun Rawat



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/07	Report No.:	VEL/A/2109/007
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	11/09/2021
		Period of Analysis:	07/09/2021 to 11/09/2021
		Receipt Date:	07/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Railway Line Side
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Cloudy Sky
Date of Monitoring	06/09/2021 to 07/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 29.0°C Max. 37.0°C
Surrounding Activity	Human, Vehicular and Rail activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	34.61	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	53.12	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.96	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.91	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/08	Report No.:	VEL/A/2109/008
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	11/09/2021
		Period of Analysis:	07/09/2021 to 11/09/2021
		Receipt Date:	07/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Wagon Tippler
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Cloudy Sky
Date of Monitoring	06/09/2021 to 07/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 29.0°C Max. 37.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Yes
Sampling & Analysis Protocol	IS-5182& CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	35.12	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23). Gravimetric Method	54.73	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6). Jacob & Hochheiser	14.16	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2). Modified West and Gaeke	8.07	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/09	Report No.:	VEL/A/2109/009
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	15/09/2021
		Period of Analysis:	11/09/2021 to 15/09/2021
		Receipt Date:	11/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Gate No -1
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Intermediately Rain
Date of Monitoring	: 10/09/2021 to 11/09/2021
Time of Monitoring	: 24.0 hours
Ambient Temperature (°C)	: Min. 27.0°C Max. 34.0°C
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Sprinkling
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	38.78	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	57.35	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	17.61	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.68	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/10	Report No.:	VEL/A/2109/010
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	15/09/2021
		Period of Analysis:	11/09/2021 to 15/09/2021
		Receipt Date:	11/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Gate No -2
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Intermediately Rain
Date of Monitoring	10/09/2021 to 11/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 27.0°C Max. 34.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	35.68	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	55.49	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.56	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.19	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY

SR ANALYST

(Tested By)

Amitabh Dubey

ARJUN RAWAT

(Checked By)

Arjun Rawat



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/11
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/011
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 15/09/2021
Period of Analysis: 11/09/2021 to 15/09/2021
Receipt Date: 11/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative: Mr. Anirudh Dani (Plant Head)
Sample collected by: Vardan Enviro Lab Representative
Sampling Location: Railway Line Side
Instrument Used: RDS & FPS sampler with all Accessories
Instrument Code: VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status: Calibrated
Meteorological condition during monitoring: Intermediately Rain
Date of Monitoring: 10/09/2021 to 11/09/2021
Time of Monitoring: 24.0 hours
Ambient Temperature (°C): Min. 27.0°C Max. 34.0°C
Surrounding Activity: Human, Vehicular and Rail activities
Scope of Monitoring: Regulatory Requirement
Control measure if Any: Water Sprinkling
Sampling & Analysis Protocol: IS-5182 & CPCB Guideline
Parameter Required: PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	32.52	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23). Gravimetric Method	53.67	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.08	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2). Modified West and Gaeke	7.42	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:

Name & Address of the Party:

VEL/JKCW/A/12

M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.:

VEL/A/2109/012

Format No.:

7.8 F-01

Party Reference No.:

NIL

Reporting Date:

15/09/2021

Period of Analysis:

11/09/2021 to 15/09/2021

Receipt Date:

11/09/2021

Sample Description:

AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative

Sample collected by

Sampling Location

Instrument Used

Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring

Control measure if Any

Sampling & Analysis Protocol

Parameter Required

- : Mr. Anirudh Dani (Plant Head)
- : Vardan Enviro Lab Representative
- : Near Wagon Tippler
- : RDS & FPS sampler with all Accessories
- : VEL/RDS/04 & VEL/FPS/04
- : Calibrated
- : Intermediately Rain
- : 10/09/2021 to 11/09/2021
- : 24.0 hours
- : Min. 27.0°C Max. 34.0°C
- : Human, Vehicular and Cement plant activities
- : Regulatory Requirement
- : Yes
- : IS-5182 & CPCB Guideline
- : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	31.88	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	52.67	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.16	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.08	µg/m ³	80

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.
#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST

(Tested By)
[Signature]

ARJUN RAWAT

(Checked By)
[Signature]



VEL/E/N/TR/PN1624

www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/13	Report No.:	VEL/A/2109/013
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	18/09/2021
		Period of Analysis:	14/09/2021 to 18/09/2021
		Receipt Date:	14/09/2021

Sample Description: AMBIENT AIRQUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Gate No -1
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Cloudy Sky
Date of Monitoring	13/09/2021 to 14/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 27.0°C Max. 35.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	36.57	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	56.36	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.18	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.41	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/14	Report No.:	VEL/A/2109/014
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	18/09/2021
		Period of Analysis:	14/09/2021 to 18/09/2021
		Receipt Date:	14/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Gate No -2
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Cloudy Sky
Date of Monitoring	13/09/2021 to 14/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 27.0°C Max. 35.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	34.71	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	56.97	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	18.14	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.28	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/15
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/015
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 18/09/2021
Period of Analysis: 14/09/2021 to 18/09/2021
Receipt Date: 14/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative: Mr. Anirudh Dani (Plant Head)
Sample collected by: Vardan Enviro Lab Representative
Sampling Location: Railway Line Side
Instrument Used: RDS & FPS sampler with all Accessories
Instrument Code: VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status: Calibrated
Meteorological condition during monitoring: Cloudy Sky
Date of Monitoring: 13/09/2021 to 14/09/2021
Time of Monitoring: 24.0 hours
Ambient Temperature (°C): Min. 27.0°C Max. 35.0°C
Surrounding Activity: Human, Vehicular and Rail activities
Scope of Monitoring: Regulatory Requirement
Control measure if Any: Water Sprinkling
Sampling & Analysis Protocol: IS-5182 & CPCB Guideline
Parameter Required: PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	33.05	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	52.16	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.01	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.16	µg/m ³	80

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

*SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/16
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/016
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 18/09/2021
Period of Analysis: 14/09/2021 to 18/09/2021
Receipt Date: 14/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Wagon Tippler
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Cloudy Sky
Date of Monitoring : 13/09/2021 to 14/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 27.0°C Max. 35.0°C
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Yes
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	34.77	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	51.64	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	12.86	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	6.97	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/17
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/017
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 22/09/2021
Period of Analysis: 18/09/2021 to 22/09/2021
Receipt Date: 18/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan EnviroLab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 17/09/2021 to 18/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 29.0°C Max. 37.0°C
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01. Section No. SP 63	35.11	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23). Gravimetric Method	56.16	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6). Jacob & Hochheiser	17.37	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2). Modified West and Gaeke	8.18	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/18
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/018
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 22/09/2021
Period of Analysis: 18/09/2021 to 22/09/2021
Receipt Date: 18/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Gate No -2
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 17/09/2021 to 18/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 29.0°C Max. 37.0°C
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	37.50	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	58.32	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.19	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.93	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
(Tested By)

ARJUN RAWAT
(Checked By)



VEL/E/N/TR/PN1012

www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/19
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/019
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 22/09/2021
Period of Analysis: 18/09/2021 to 22/09/2021
Receipt Date: 18/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 17/09/2021 to 18/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 29.0°C Max. 37.0°C
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	33.19	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	52.37	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	13.77	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	6.83	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/20	Report No.:	VEL/A/2109/020
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	22/09/2021
		Period of Analysis:	18/09/2021 to 22/09/2021
		Receipt Date:	18/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Wagon Tippler
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 17/09/2021 to 18/09/2021
Time of Monitoring	: 24.0 hours
Ambient Temperature (°C)	: Min. 29.0°C Max. 37.0°C
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Yes
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	34.62	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	53.23	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.15	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gacke	7.78	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/21
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/021
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 25/09/2021
Period of Analysis: 21/09/2021 to 25/09/2021
Receipt Date: 21/09/2021

Sample Description: AMBIENT AIRQUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan EnviroLab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 20/09/2021 to 21/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 27.0°C Max. 35.0°C
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	"SOP No. VEL/SOP/01, Section No. SP 63	38.11	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	57.32	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.67	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.21	µg/m ³	80

*NAAQS -- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

"SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Checked By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/22	Report No.:	VEL/A/2109/022
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	25/09/2021
		Period of Analysis:	21/09/2021 to 25/09/2021
		Receipt Date:	21/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Gate No -2
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	20/09/2021 to 21/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 27.0°C Max. 35.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	"SOP No. VEL/SOP/01, Section No. SP 63	36.60	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	55.52	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.47	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.24	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009,

"SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/23
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/023
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 25/09/2021
Period of Analysis: 21/09/2021 to 25/09/2021
Receipt Date: 21/09/2021

Sample Description: AMBIENT AIRQUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 20/09/2021 to 21/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 27.0°C Max. 35.0°C
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01. Section No. SP 63	32.96	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23). Gravimetric Method	53.79	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	13.14	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	6.52	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

*SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/24
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/024
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 25/09/2021
Period of Analysis: 21/09/2021 to 25/09/2021
Receipt Date: 21/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Wagon Tippler
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 20/09/2021 to 21/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 27.0°C Max. 35.0°C
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Yes
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	31.88	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	53.79	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	14.15	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.23	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP- Laboratory Standard Operating Procedure

AMITABH DOBRI
SR ANALYST
(Tested By)
Amithan

ARJUN PAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/25	Report No.:	VEL/A/2109/025
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	29/09/2021
		Period of Analysis:	25/09/2021 to 29/09/2021
		Receipt Date:	25/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Gate No -1
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	24/09/2021 to 25/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 29.0°C Max. 38.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	34.96	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	55.12	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	18.11	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.04	µg/m ³	80

*NAAQS -- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/26	Report No.:	VEL/A/2109/026
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	29/09/2021
		Period of Analysis:	25/09/2021 to 29/09/2021
		Receipt Date:	25/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Gate No -2
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	24/09/2021 to 25/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 29.0°C Max. 38.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	36.58	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	57.26	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.14	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.51	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SP ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/27
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/027
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 29/09/2021
Period of Analysis: 25/09/2021 to 29/09/2021
Receipt Date: 25/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Railway Line Side
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 24/09/2021 to 25/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 29.0°C Max. 38.0°C
Surrounding Activity : Human, Vehicular and Rail activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	31.66	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	52.52	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	13.78	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.02	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
Amir

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/28	Report No.:	VEL/A/2109/028
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	29/09/2021
		Period of Analysis:	25/09/2021 to 29/09/2021
		Receipt Date:	25/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Wagon Tippler
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 24/09/2021 to 25/09/2021
Time of Monitoring	: 24.0 hours
Ambient Temperature (°C)	: Min. 29.0°C Max. 38.0°C
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Yes
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	32.15	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	53.44	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.68	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.75	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
(Checked By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/29
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA)

Report No.: VEL/A/2109/029
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 01/10/2021
Period of Analysis: 28/09/2021 to 01/10/2021
Receipt Date: 28/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan EnviroLab Representative
Sampling Location : Near Gate No -1
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/01 & VEL/FPS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 27/09/2021 to 28/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 28.0°C Max. 37.0°C
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Water Sprinkling
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	35.96	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	56.14	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	19.66	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	9.82	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/30	Report No.:	VEL/A/2109/030
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	01/10/2021
		Period of Analysis:	28/09/2021 to 01/10/2021
		Receipt Date:	28/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Gate No -2
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	VEL/RDS/02 & VEL/FPS/02
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	27/09/2021 to 28/09/2021
Time of Monitoring	24.0 hours
Ambient Temperature (°C)	Min. 28.0°C Max. 37.0°C
Surrounding Activity	Human, Vehicular and Cement plant activities
Scope of Monitoring	Regulatory Requirement
Control measure if Any	Water Sprinkling
Sampling & Analysis Protocol	IS-5182 & CPCB Guideline
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	34.22	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	54.65	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.08	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.88	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

#SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)
Amitabh

ARJUN RAWAT
(Checked By)
Arjun



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab[®]

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/A/31	Report No.:	VEL/A/2109/031
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (HARYANA)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	01/10/2021
		Period of Analysis:	28/09/2021 to 01/10/2021
		Receipt Date:	28/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Railway Line Side
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/03 & VEL/FPS/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 27/09/2021 to 28/09/2021
Time of Monitoring	: 24.0 hours
Ambient Temperature (°C)	: Min. 28.0°C Max. 37.0°C
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Sprinkling
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	[#] SOP No. VEL/SOP/01, Section No. SP 63	33.35	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	54.14	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	15.91	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	7.82	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

[#]SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR ANALYST
(Tested By)
[Signature]

ARJUN RAWAT
(Checked By)
[Signature]



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/A/32 Report No.: VEL/A/2109/032
Name & Address of the Party: M/s JK Cement Works
Mohan Bari Road Jharli - 124106
Distt - Jhajjar (HARYANA) Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 01/10/2021
Period of Analysis: 28/09/2021 to 01/10/2021
Receipt Date: 28/09/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Client Representative : Mr. Anirudh Dani (Plant Head)
Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Near Wagon Tippler
Instrument Used : RDS & FPS sampler with all Accessories
Instrument Code : VEL/RDS/04 & VEL/FPS/04
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 27/09/2021 to 28/09/2021
Time of Monitoring : 24.0 hours
Ambient Temperature (°C) : Min. 28.0°C Max. 37.0°C
Surrounding Activity : Human, Vehicular and Cement plant activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : Yes
Sampling & Analysis Protocol : IS-5182 & CPCB Guideline
Parameter Required : PM_{2.5}, PM₁₀, NO₂, SO₂

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	32.51	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	52.35	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	16.77	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Modified West and Gaeke	8.16	µg/m ³	80

*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

"SOP- Laboratory Standard Operating Procedure

AMITABH DUBEY
SR. ANALYST
(Tested By)

ARJUN RAWAT
(Checked By)



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/ST/01	Report No.:	VEL/ST/2109/18/001
Name & Address of the Party:	M/s JK Cement Works Mohan Bari Road Jharli - 124106 Distt - Jhajjar (Haryana)	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	22/09/2021
		Period of Analysis:	18/09/2021 to 22/09/2021
		Receipt Date:	18/09/2021

Sample Description: STACK EMISSION MONITORING

General Information:-

Client Representative	Mr. Anirudh Dani (Plant Head)
Sample collected by	Vardan EnviroLab Representative
Sampling Date	18/09/2021
Sampling Location	Near Bag House
Sampling Duration (Minutes)	35.0
Stack Attached to	Ball Mill Bag house or Separator Bag house
Metrological Condition	Clear Sky
Instrument Calibration Status	OK
Height of Stack	43.0 mtr
Diameter of Stack	2 mtr
Ambient Temperature-Ta (°C)	36.0
Temperature of Stack Gases-Ts (°C)	82.0
Velocity of Stack Gases (m/sec.)	8.02
Flow rate of PM (LPM)	24.0
Flow rate of Gas (LPM)	2.0
Sampling Condition	Isokinetic
Protocol Used	IS :11255 & CPCB Guideline

S. No.	Parameter	Protocol	Result	Unit
1.	Particulate Matter (PM)	IS 11255 (P-I) Gravimetric Method	17.55	mg/Nm ³

AMITABH DUBEY
SR ANALYST
(Tested By)
Amitabh Dubey

ARJUN RAWAT
(Checked By)
Arjun Rawat



www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com

Birth Anniversary of Shri Y. P. Singhaniaji

On the occasion of 68th birth anniversary of our beloved Mentor and Guide, Shri Y. P. Singhaniaji on 29th September we have organized following activities at Jharli :

1. We have organized a Voluntary Blood Donation camp in association with the team of SFG Blood Bank, a Unit of SUNFLAG GLOBAL Hospital, Rohtak in our Plant in which total 66 units of blood was donated by staff members and Contractor workers.



Mr. Anirudh Dani, Unit Head, Jharli inaugurating blood donation camp.



Jharli Team members donating blood on the occasion.



A donor being felicitated on the occasion.

2. A group of Jharli team members visited Baba Mathurapuri Gaushala, Matanhail which contains about 3000 cows and calves and donated animal food for one day worth Rs. 11,000/- on behalf of J. K. Cement Works Jharli.



Jharli Team members at Baba Mathurapuri Gaushala, Matanhail.



Contribution to fight against COVID-19

In continuation of our COVID contribution, J. K. Cement Works Jharli has contributed 04 OXIMETER, 01 Temperature gun, 25 (100 ml) sanitizer bottles, 01 box of hand gloves, 01 BP machine and 500 surgical masks to Sarpanch Udai Singh for Government school COVID Isolation Center at village Khanpur Khurd on 22 May 2021.



Jharli Team members contributing to Sarpanch Khanpur Khurd village at Government school COVID Isolation Center.

Wrestling competition at Khanpur and Sansroli

On 28th and 29th March Wrestling competitions were organized at Sansroli and Khanpur khurd respectively. J. K. Cement Works, Jharli was one of the chief sponsors of the event for boosting the morals of the Wrestlers. About 300 Wrestlers along with some National level wrestlers have participated in the competition. The function was attended by dignitaries of neighboring villages and peoples.



Wrestlers are being awarded by the organizers during wrestling competition at Sansroli village.



Wrestlers are being awarded by the organizers during wrestling competition at Khanpur Khurd village.

Donation to Gaushala by J. K. Cement Works Jharli

Danvir Balla Jakhar 36 Khap Gaushala at Salhawas has about 1,000 cows and calves but the Gaushala is facing lot of problems due to lack of boundary wall for cow fodder. A grant of Rs. 2,51,000/- was given by Shri Anirudh Dani, Unit Head for construction of boundary wall of Danvir Balla Jakhar 36 Khap Gaushala Salhawas on behalf of Jk Cement Works Jharli. Gaushala Committee extends warm greetings to Jk Cement Works Jharli.



Mr. Anirudh Dani, Unit Head Jharli during donation to Gaushala Committee.

[illegible]

Renovation of Shiv Mandir at Jharli

As a part of our CSR activities, J K Cement Works Jharli make contribution for renovation work of an existing Shiv Mandir in Jharli village on the way to our Plant. HR Team members make the donation to the villagers on behalf of Jharli Plant.



HR Team Jharli with the villagers during contribution for renovation of Shiv Mandir.



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JKCW/WW/01	Report No.:	VEL/WW/2106/001
Name & Address of the Project:	M/s JK Cement Works Mohan Bari Road Jharli – 124106 Distt – Jhajjar (HARYANA)	Format No.:	7.8 F-01
Sample Description:	Waste Water Sample	Party Reference No.:	NIL
Sampling Location:	STP Plant (STP Outlet)	Reporting Date:	23/06/2021
Sample Collected by:	Vardan EnviroLab Representative	Period of Analysis:	18/06/2021 to 23/06/2021
Parameter Required:	As per Work Order	Receipt Date:	18/06/2021
Analysis Protocol:	IS 3025, APHA	Sampling Date:	17/06/2021
		Preservation:	Refrigerated
		Sampling Quantity:	2.0 Ltr

S. No.	Parameter	Test - Method	Result	Unit	Standards for Discharge as per CPCB		
					In-Land Surface Water	Public Sewers	Land for Irrigation
1.	pH (at 25 °C)	APHA 4500-H+ B Electrometric Method	7.53	--	5.5-9.0	5.5-9.0	5.5-9.0
2.	COD	APHA 5220 B Open Reflux Method	69.40	mg/l	250	--	--
3.	BOD (3 Days at 27 °C)	APHA, 5210 C/ IS 3025 (Part 44)	18.00	mg/l	30	350	100
4.	Total Suspended Solid	APHA 2540 D Gravimetric Method	23.00	mg/l	100	600	200
5.	Oil & Grease	APHA, 5520 B Partition Gravimetric Method	0.42	mg/l	10	20	10

MEENU KAUSHIK
Sr. Analyst
(Checked By)

ARJUN RAWAT
(Checked By)

Prakash Singh
(Approved By)
Authorised Signatory

Note: Terms & conditions refer on backside of test report.

www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JKCW/WW/01
Name & Address of the Project: M/s JK Cement Works
Mohan Bari Road Jharli – 124106
Distt – Jhajjar (HARYANA)

Sample Description: Waste Water Sample
Sampling Location: STP Plant (STP Outlet)
Sample Collected by: Vardan EnviroLab Representative
Parameter Required: As per Work Order
Analysis Protocol: IS 3025, APHA

Report No.: VEL/WW/2109/21/001
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 25/09/2021
Period of Analysis: 21/09/2021 to 25/09/2021
Receipt Date: 21/09/2021
Sampling Date: 20/09/2021
Preservation: Refrigerated
Sampling Quantity: 2.0 Ltr

S. No.	Parameter	Test - Method	Result	Unit	Standards for Discharge as per CPCB		
					In-Land Surface Water	Public Sewers	Land for Irrigation
1.	pH (at 25 °C)	APHA 4500-H+ B Electrometric Method	7.61	---	5.5-9.0	5.5-9.0	5.5-9.0
2.	COD	APHA 5220 B Open Reflux Method	79.80	mg/l	250	---	---
3.	BOD (3 Days at 27 °C)	APHA, 5210 C/ IS 3025 (Part 44)	17.00	mg/l	30	350	100
4.	Total Suspended Solid	APHA 2540 D Gravimetric Method	28.00	mg/l	100	600	200
5.	Oil & Grease	APHA, 5520 B Partition Gravimetric Method	0.49	mg/l	10	20	10

LAXMAN
(Tested By)

ARJUN RAWAT
(Checked By)



J.K.CEMENT WORKS, JHARLI

PERIODICAL MEDICAL EXAMINATION

Date of Medical Test:

FSHPL ID: 11264856 Sr.No : 5 .

Name of Employee /Worker: Mr. <u>Avinash Chandra</u>	
E. Code / Gate Pass: <u>3800365</u>	Age: <u>10/31/1979</u> -41 Sex: <u>Male</u>
Department : <u>Administration</u>	Designation :

Height.....173.6 Cm, Weight 84.45 Kg. Body Temp..... °F SpO2.....96%

Mark of identification.....mole on chest.....

Drug allergy.....NA c/o tan on forehead.....

History of any chronic diseasesNA.....

Digestive System - P/A Liver NA Spleen.....NA.....

Respiratory System - R.R..... Chest.....clear.....

Spirometry CXR..... Audiometry

CVS- H.R.....76/min B.P.....168/109 Heart sound..... Murmur..... ECG.....

CNS Vision - Near..... Distant Color vision.....

Blood group& RHO+..... Blood Sugar (RBS)

Other investigations if any

Medical advice -.....

I hereby certify that Mr. Avinash Chandra

Found medically ☒ Fit / ☐ Unfit for employment.

Signature of person examined



Dr. S. Singh
General Physician
(Signature of Medical Practitioner)

J.K.CEMENT WORKS, JHARLI

PERIODICAL MEDICAL EXAMINATION

Date of Medical Test:

FSHPL ID: 11268787 Sr.No : 8.

Name of Employee /Worker: Mr. <u>Lokesh Pancholi</u>	
E. Code / Gate Pass: <u>13001430</u>	Age: <u>7/15/1982</u> -39 Sex: <u>Male</u>
Department : <u>Electrical</u>	Designation :

Height 172 Cm, Weight 72 Kg. Body Temp..... °F SpO2 97 %

Mark of identification..... Cut mark on forehead

Drug allergy..... NA

History of any chronic diseases NA / H/O COVID infection May 2021

Digestive System - P/A Liver NA Spleen NA

Respiratory System - R.R..... Chest.....

Spirometry CXR..... Audiometry

CVS- H.R..... B.P. 123/79 Heart sound normal Murmur..... ECG normal

CNS Vision - Near..... Distant Color vision normal

Blood group & RH O+ Blood Sugar (RBS)

Other investigations if any

Medical advice -

I hereby certify that Mr. Lokesh Pancholi

Found medically ☒ Fit / ☐ Unfit for employment.

Lokesh Pancholi
Signature of person examined

Dr. S.S. Singh
(Signature of Medical Practitioner)
General Physician

J.K.CEMENT WORKS, JHARLI

PERIODICAL MEDICAL EXAMINATION

Date of Medical Test:

FSHPL ID: 11264881 Sr.No : 15.

Name of Employee /Worker: Mr. <u>Manish Vyas</u>	
E. Code / Gate Pass: <u>3800199</u>	Age: <u>4/20/1987</u> -34 Sex: <u>Male</u>
Department : <u>Hr & Admin.</u>	Designation :

Height...169.2 Cm, Weight 81.65 Kg. Body Temp.....°F SpO2...97%

Mark of identification...sticker mark on left eye

Drug allergy...NA H/O

History of any chronic diseases ...NA H/O Dengue 1 month back Post c/o - congestion
Neuro prob. on Rx for some

Digestive System - P/A Liver NA Spleen NA

Respiratory System - R.R..... Chest...Congestion

Spirometry CXR.....Audiometry

CVS- H.R...89/min B.P...144/92 Heart sound...normal Murmur..... ECG.....

CNS Vision - Near..... Distant Color vision.....


Blood group& RH ...O+ve Blood Sugar (RBS)

Other investigations if any

Medical advice -

I hereby certify that Mr. Manish Vyas

Found medically ☒ Fit / ☐ Unfit for employment.


Signature of person examined


Dr. S. S. Singh
General Physician
(Signature of Medical Practitioner)

J.K.CEMENT WORKS, JHARLI

PERIODICAL MEDICAL EXAMINATION

Date of Medical Test:

FSHPL ID: 11268914 Sr.No : 92 .

Name of Employee /Worker: Mr. <u>Sanjeev Kumar</u>		
E. Code / Gate Pass: <u>6000030</u>	Age: <u>8/10/1991</u>	Sex: <u>Male</u>
Department : <u>Admin</u> (Shreejee)		Designation :

Height 183 Cm, Weight 66 Kg. Body Temp..... °F SpO2 90 %

Mark of identification..... mole on chest

Drug allergy..... NA

History of any chronic diseases ... NA

Digestive System - P/A normal Liver NA Spleen NA

Respiratory System - R.R..... Chest clear

Spirometry CXR..... Audiometry

CVS- H.R. 80/min B.P. 124/80 Heart sound normal Murmur..... ECG.....

CNS Vision - Near..... Distant Color vision.....

Blood group & RH A- Blood Sugar (RBS)

Other investigations if any

Medical advice -

I hereby certify that Mr. Sanjeev Kumar

Found medically ☒ Fit / ☐ Unfit for employment.

Signature of person examined

Dr. S.B. Singh
(Signature of Medical Practitioner)

J.K.CEMENT WORKS, JHARLI

PERIODICAL MEDICAL EXAMINATION

Date of Medical Test:

FSHPL ID: 11268913 Sr.No: 93.

Name of Employee /Worker: Mr. <u>Satpal</u>	
E. Code / Gate Pass: <u>6000019</u>	Age: <u>1/1/1986</u> Sex: <u>Male</u>
Department : <u>Admin</u> (Shreejee)	Designation :

Height.....172..... Cm, Weight.....89.60..... Kg. Body Temp.....°F SpO2.....97.....%

Mark of identification.....cut marks on middle finger of right hand
Joint

Drug allergy.....NA.....

History of any chronic diseases.....NA..... c/o Abdominal pain, joint pain

Digestive System - P/A.....normal..... Liver.....NA..... Spleen.....NA.....

Respiratory System - R.R..... Chest.....clear.....

Spirometry CXR..... Audiometry

CVS- H.R.....71/min..... B.P.....128/86..... Heart sound..... Murmur..... ECG.....

CNS Vision - Near..... Distant Color vision.....normal.....

Blood group & RH.....A+..... Blood Sugar (RBS)

Other investigations if any

Medical advice -

I hereby certify that Mr. Satpal

Found medically ☒ Fit / ☐ Unfit for employment.

Satpal
Signature of person examined

Dr. S. B. Singh
General Physician
(Signature of Medical Practitioner)

J.K.CEMENT WORKS, JHARLI

PERIODICAL MEDICAL EXAMINATION

Date of Medical Test:

FSHPL ID: 11269075 Sr.No : 98.

Name of Employee /Worker: Mr. <u>Sumit</u>		
E. Code / Gate Pass: <u>3003</u>	Age: <u>1/1/2003</u>	Sex: <u>Male</u>
Department : <u>Canteen</u> (Sharma Canteen)		Designation :

Height 163..... Cm, Weight 57..... Kg. Body Temp..... °F SpO2 89 %

Mark of identification hole on hole.....

Drug allergy NA.....

History of any chronic diseases NA.....

Digestive System - P/A normal Liver NA Spleen NA.....

Respiratory System - R.R..... Chest clear.....

Spirometry CXR..... Audiometry

CVS- H.R. 64 B.P. 128/80 Heart sound normal Murmur..... ECG.....

CNS Vision - Near..... Distant Color vision normal.....

Blood group & RH Blood Sugar (RBS)

Other investigations if any

Medical advice -.....

I hereby certify that Mr. Sumit

Found medically ☒ Fit / ☐ Unfit for employment.

Signature of person examined

Sumit

Dr. S S Singh
(Signature of Medical Practitioner)



JK Cement WORKS

(Unit of : J.K. Cement Ltd.)

Phone : +91 9729991610
E-mail : jkc.jharli@jkcement.com
Mohan Bari Road, Jharli-124 106
Dist. Jhajjar, Haryana (India)

Ref. No. JKJharli/Env/135

Dated - 11th September, 2013

To,
DC Office
Jhajjar

Sub: Submission of Environment Clearance

Sir,

We are sending herewith copy of Environment Clearance received for
J. K. Cement Jharli Project.

This is for your kind information.

Thanking you,

Harish Agarwal
Vice President (Project)
J. K. Cement Works

- C.C – 1. Gram Panchayat
2. Zila Parishad
3. Municipality



Administrative & Registered Office : Kamla Tower, Kanpur-208 001 (U.P.) INDIA
Phone : +91-512-2371478 to 81, E-mail : admin@jkcement.com,
Website : www.jkcement.com



AN ISO 9001:2008, 14001:2004
50001:2011 & OHSAS
18001:2007 CERTIFIED COMPANY



JK Cement Works, Jharli

A unit of JK Cement Ltd.

CIN: L17229UP1994PLC017199

Mohanbari Road, Jharli - 124106, Distt. Jhajjar(Haryana) INDIA

+91 - 9729991610 jkc.jhar@jkcement.com

www.jkcement.com

Ref. No.: JKJharli/PC-01/925

Date : 27.09.2021

To,
The Member Secretary,
Haryana State Pollution Control Board
C-11, Sector-6, Panchkula 134 109

Sub.: Environmental Statement Report (Form - V) for the F. Year 2020 - 2021 of J.K. Cement Limited, Village - Jharli, Teshil - Matanhail, District - Jhajjar (Haryana).

Ref.: CTO: HSPCB/Consent/: 2776718 JHACTO4348463, Dated 21.01.2018.

Dear Sir,

With reference to above subject matter, please find enclosed herewith Environment Statement Report (Form - V) of J.K. Cement Works, Jharli for the Fin. Year 2020 – 2021 for your reference and record. We trust you will find the same in order.

Thanking you,

Yours faithfully,

For JK Cement Works Jharli



Authorized Signatory

Encl.: Form - V along with Supporting Annexures (04 Nos.)

CC: The Regional Officer, Haryana State Pollution Control Board, SCF No. 42 & 43, Shopping Centre, Sector-6, HUDA, Bahadurgarh, District: - Jhajjar (Haryana) - 124 507
Mail id:- hspcbrobdh@gmail.com

Corporate Office

Padam Tower, 19, DDA Community Centre,
Okhla, Phase - 1, New Delhi - 110020, India

+011-49220000

admin.padamtower@jkcement.com

www.jkcement.com

**JK SUPER
CEMENT**
BUILD SAFE

**JK CEMENT
WallMaxX**
White Cement Wall Putty

Manufacturing Units at :

Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)

Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)



Registered Office : Kamla Tower, Kanpur-208001, U.P., India. +91-512-2371478 to 85 91-512-2399854 www.jkcement.com



ENVIRONMENTAL STATEMENT

FORM - V

Environmental Statement for the financial year 2020 - 21, ending the 31st March' 2021

PART-A

i. Name an address of the owner/occupier of the industry operation or process	J.K. Cement Works, Jharli Village: Jharli, Tehsil: Matanhail, District: Jhajjar (Haryana)
ii. Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
iii. Production capacity 1. Cement 2. Tile Adhesive	2.0 Million TPA 30 MT/ Day
iv. Year of establishment- (UNIT WISE)	Year- 2014
v. Date of last environmental statement submitted	25.09.2020

PART-B

WATER AND RAW MATERIAL CONSUMPTION

i. WATER CONSUMPTION (in m3/day)

Process : 8.29 m3/day

Domestic : 46.86 m3/day

Name of products	Process water consumption per unit of products	
	During the previous financial year (2019-20) (KL/MT)	During the current financial year (2020-21) (KL/MT)
1. Cement	0.002	0.0025
2. Tile Adhesive	0.0	0.0

ii. **RAW MATERIAL CONSUMPTION**

Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2019-20)	During the current financial year (2020-21)
Clinker	Cement	0.62	0.59
Gypsum		0.07	0.09
Flyash %		0.28	0.28
Pondash %		0.03	0.04
Silica Sand	Tile Adhesive	0	0.90
Cement		0	0.03

PART-C

POLLUTION DISCHARGE TO ENVIRONMENT / UNIT OF OUTPUT

Pollutants	Quantity of pollutants discharged (Ton/Day)	Concentration of pollutants in discharge (mg/Nm3)	Percentage of variation from prescribed standards with reasons
(a) Water	Cement plant is being operated on dry process technology, hence no liquid effluent is generated. Domestic waste water generated from the office toilet and canteen is being treated in sewage treatment plant and treated water is being reused in plantation and horticulture. STP treated water analysis report is attached as Annexure-I		
(b) Air	1. Stack Emission Monitoring Report is attached as Annexure- II . 2. Ambient Air Monitoring Report is attached as Annexure- III . 3. Ambient Air Noise monitoring Report is attached as Annexure- IV .		

PART-D

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

Hazardous waste	Total Quantity	
	During previous financial year (2019-20) (KL)	During current financial year (2020-21) (KL)
(a) From Process	Used Oil (Cat. 5.1) - 8.106 KL	Used Oil (Cat. 5.1) - 4.26 KL
(b) From Pollution Control facilities	Not applicable	Not applicable

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

PART-E
SOLID WASTE

Source	Total Quantity	
	During previous financial year (2019-20) (MT/Year)	During current financial year (2020-21) (MT/Year)
(a) From process	NONE	NONE
(b) From pollution control facility	Dust collected in bag house and bag filters are recycled into the system	Dust collected in bag house and bag filters are recycled into the system
(c) Quantity rejected or reutilized with in the unit	100%	100%

Other Solid Waste

Name of solid waste	Total Quantity	
	During previous financial year (2019-20) (MT/Year)	During current financial year (2020-21) (MT/Year)
Metal Scrap	0	68.25
Plastic Scrap	0	6.92
Empty Drums	0	0
Wooden scrap	0	0
Cable scrap	0	0
Paper Waste	0	0
Torn PP Bags & other misc. Plastic Waste	0	0
E-waste (Old computers, printers, circuit boards etc.)	0	0
Spent Batteries	0	0
Filter bags scrap	0	0
Cotton waste/cotton rags	0	0

PART-F

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

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

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

PART-G

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

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

PART-H

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

- 1) Closed clinker storage silo constructed to reduce the fugitive dust emission, with High efficiency Bag filters.
- 2) Fly ash stored in closed silo constructed to reduce the fugitive dust emission, with High efficiency Bag filters.

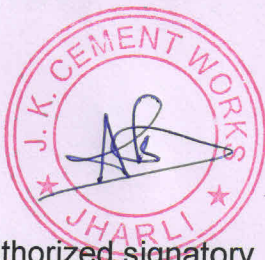
PART-I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT

- 1) Monitoring of stack emission and Ambient Air Quality and Water Quality is being done regularly as mentioned in consent to operate.
- 2) Ambient Air Quality Monitoring Stations (04 Nos.) have been installed at periphery of the plant.
- 3) Continuous Emission Monitoring Systems (CEMS) for PM have been installed at stack of cement mill and real time data transfer to HSPCB & CPCB.
- 4) Bag filters (29 Nos) have been installed at various material transfer points to control fugitive emission and 02 No. Bag House has been installed at Cement Mill & Wagon tripper.
- 5) Cement being manufacturing in dry process and there is no any effluent generated from the process hence maintaining Zero Liquid Discharge (ZLD) unit.
- 6) Fly ash purchased from nearby thermal power plant and use for cement production.
- 7) Raw materials are stored in covered shed, product in closed silo with high efficient bag filters for fugitive dust emission control.

- 8) Proper Housekeeping and cleaning is being done with the help of road sweeping machines.
- 9) Cover shed Constructed to store the raw material, to avoid fugitive emission. Finish product stored in closed silo.
- 10) All Belt Conveyor belt are fully covered & also installed Bag filter at all material transfer points
- 11) Cemented road constructed to avoid fugitive dust generation during the movement of vehicle.
- 12) Ground water level monitoring being done.
- 13) Industry has constructed 09 Nos. of rain water harvesting structures in plant & nearby Villages to recharge ground water.
- 14) Total 9000 plants planted till June - 2021 and 93093 m² area covered under green belt.

Yours faithfully,
For JK Cement Works, Jharli



Authorized signatory

J.K.Cement Works, Jharli (Haryana)
Sewage STP Treated Water Analyses Report (Quarterly)
(F. Year- 2020 - 2021)

S. No.	Parameter	I st Quarter	II nd Quarter	III rd Quarter	IV th Quarter
1	Bio-Chemical Oxygen Demand (BOD) (3 Days at 270C) (mg/l)	24.00	22.00	20.65	19.30
2	Chemical Oxygen Demand (COD)(mg/l)	81.50	78.00	76.20	74.00
3	Total Suspended Solids (TSS) (mg/l)	31.00	28.00	25.00	24.00
4	Oil & Grease (mg/l)	0.65	0.56	0.49	0.47



J.K.Cement Works, Jharli (Haryana)
Cement Mill Bag House Stack Emission Report
(F. Year- 2020 - 2021)

Month	PM (Monthly average in mg/Nm ³)	PM (TPD)	PM (TPM)	PM (Kg/Tons of Cement)	% Variation from Prescribed Standard
April' 20	Covid-19 Lock Down				
May' 20					
June' 20	26.50	0.02	0.54	0.005	-3.5
July' 20	23.20	0.02	0.39	0.004	-6.8
Aug' 20	20.42	0.02	0.36	0.003	-9.58
Sept.' 20	23.14	0.02	0.52	0.004	-6.86
Oct.' 20	24.50	0.02	0.56	0.004	-5.5
Nov.' 20	25.84	0.02	0.45	0.004	-4.16
Dec.' 20	23.80	0.02	0.49	0.004	-6.2
Jan.' 21	21.88	0.02	0.24	0.003	-8.12
Feb.' 21	24.82	0.02	0.38	0.003	-5.18
March' 21	25.16	0.02	0.45	0.003	-4.84



J.K.Cement Works, Jharli (Haryana)

Ambient Air Quality Report (Monthly Average Data in $\mu\text{g}/\text{M}^3$)
(F. Year- 2020 - 2021)

Month	Near Gate No. 1				Near Gate No. 2				Near Railway Line Side				Near Wagon Trippler			
	PM10	PM2.5	SO ₂	NO _x	PM10	PM2.5	SO ₂	NO _x	PM10	PM2.5	SO ₂	NO _x	PM10	PM2.5	SO ₂	NO _x
April' 20																
May' 20																
June' 20	65.2	44.7	9.2	23.2	66.7	46.8	9.0	20.9	59.6	40.5	9.4	24.2	54.0	39.2	9.4	22.7
July' 20	55.4	31.5	8.9	20.7	50.9	30.1	8.7	20.2	55.7	38.6	8.8	20.6	57.7	37.9	9.2	21.6
Aug' 20	53.9	35.5	8.4	17.8	50.5	31.8	8.2	18.7	52.7	32.7	8.8	19.8	56.6	36.8	8.7	19.0
Sept.' 20	54.1	37.9	8.8	19.1	50.2	29.7	9.0	21.2	56.1	35.7	8.7	20.0	54.2	35.7	9.7	22.9
Oct.' 20	70.4	48.2	9.0	21.1	62.6	53.0	9.1	22.5	59.7	43.4	9.3	22.3	60.8	44.6	8.6	19.3
Nov.' 20	64.9	37.9	8.9	20.1	65.4	29.7	9.0	20.9	63.7	35.7	8.8	19.5	59.2	35.7	8.6	17.7
Dec.' 20	59.0	34.7	8.9	18.7	57.5	34.7	8.9	19.3	59.4	36.7	8.4	17.3	55.2	38.5	8.3	16.1
Jan.' 21	54.2	39.6	8.9	17.9	59.8	37.8	8.9	18.9	54.7	34.3	8.4	16.1	58.6	37.6	8.4	16.1
Feb.' 21	56.4	37.9	9.0	18.1	57.8	35.7	9.1	18.8	56.5	37.7	8.5	16.0	55.9	36.5	8.2	15.1
March' 21	52.5	33.7	9.1	18.6	58.0	39.2	9.0	18.5	56.4	35.4	8.6	16.2	54.2	36.5	8.2	15.6
Average	58.6	38.2	8.9	19.5	57.9	36.9	8.9	20.0	57.5	37.1	8.8	19.2	56.6	37.9	8.7	18.6

Covid-19 LockDown



J.K.Cement Works, Jharli (Haryana)
Monthly Average Noise Level Monitoring Report (Leq : dB (A))
(F. Year- 2020 - 2021)

MONTH	Near Gate No. 1		Near Gate No. 2		Near Railway Line Side		Near Wagon Trippler	
	Day	Night	Day	Night	Day	Night	Day	Night
April' 20	Covid -19 Lockdown							
May' 20								
June' 20	68.2	57.3	64.4	58.3	61.7	49.9	70.4	52.1
July' 20	69.3	56.1	66.2	53.6	68.1	59.4	69.6	60.5
Aug' 20	68.3	55.1	65.3	56.6	63.4	55.1	62.1	53.5
Sept.' 20	69.1	51.6	64.5	54.2	63.1	47.5	71.3	61.7
Oct.' 20	70.3	56.1	66.2	53.6	68.1	59.4	62.1	53.5
Nov.' 20	68.4	55.3	61.3	55.1	63.4	57.1	59.2	49.6
Dec.' 20	58.1	51.3	62.4	45.2	65.8	55.6	60.4	55.6
Jan.' 21	62.4	49.5	64.1	45.2	60.2	49.3	61.4	50.7
Feb.' 21	63.5	48.2	67.3	53.1	68.3	53.4	59.2	48.5
March' 21	62.1	46.5	63.4	50.6	65.1	52.2	63.5	49.1
Average	66.0	52.7	64.5	52.6	64.7	53.9	63.9	53.5



From

Fire Station Officer,
Bahadurgarh (Jhajjar)

To,

M/s JK Cement Works,
Village Jharli, Tehsil-Matanhail,
Distt. Jhajjar Haryana.

Memo No. 434/FSB


Dated 20.06.18

Subject: Renewal of Fire NOC from fire safety point of view in respect of Industrial Building M/s JK Cement Works, Village-Jharli, Tehsil- Matanhail Distt-Jhajjar, Haryana.

The above said building was inspected by Fire Station Officer Bahadurgarh to check the above building's Fire Fighting arrangement in respect of Industrial building. During inspection, the Fire Fighting arrangements in the above said industrial building were found in working condition as per National Building Code of India, Part IV Revision 2005 & 2016. This No Objection Certificate is issued to firm with the approval Ld. Deputy Commissioner, Jhajjar Memo No. 930/LFA Dated 20/06/2018.

The No. objection Certificate is issued this effect on the following terms and conditions.

1. That the present No Objection Certificate shall be valid for a period of Five year from the date of issue & it shall be the responsibility of the owner to obtain renewal of the same.
2. That the owner/ occupier shall ensure that the Fire Fighting arrangements should remain in working condition all the times & for any lapses in this regard the owner/occupier shall be responsible for the same.
3. That the owner/occupier shall be responsible to deploy trained Fire Fighting staff in the Industries round the clock i.e. under rule in all three shifts to operate & maintain the Fire Fighting system in the Industries .
4. The owner/occupier shall strictly follow the other applicable rules/regulations/bylaws laid down regarding Fire Safety System. If you fail to comply with any of above terms/conditions, you will be liable to be punished as per Haryana Fire Service Act, 2009 specially chapter III, Section 31, & sub rules 1&2 of said Act.


Fire Station Officer
Bahadurgarh (Jhajjar)