



# JK Cement WORKS

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

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Mohan Bari Road, Jharli-124 106  
Dist. Jhajjar, Haryana (India)

Ref. No. JKJharli/PC-01/893

Dated- May 22, 2021

The Member Secretary

State Level Environment Impact

Assessment Authority, Bay No. 55-58

Paryantan Bhawan

Sector -2, Panchkula

Haryana

Sub: Submission of Compliance Report 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 Office, HSPCB, Bahadurgarh, Haryana
3. The Regional Office, MoEF, Chandigarh, Haryana



Administrative & Registered Office : Kamla Tower, Kanpur-208 001 (U.P.) INDIA  
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### Part A. - Specific Conditions

Sr. No.	Condition	Reply
1.	Particulate emission shall be controlled within 50 mg/Nm <sup>3</sup> 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.	<i>Being Complied.</i>  <i>The Environmental Monitoring of the project site has been done. MoEFCC approved lab reports of ambient air, fugitive and stack emissions are enclosed as <b>Annexure-1</b> and sending regularly to concerns bodies.</i>
2.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 <sup>th</sup> November, 2009 should be followed.	<i>Agreed &amp; complying.</i>
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.	<i>Agreed &amp; complying.</i>
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.	<i>We have already installed bag houses and bag filters for the collection of dust particles in the plant. Fly ash and clinker are being stored in silos. The conveyors are covered which are used for the transportation of the raw material.</i>
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.	<i>Being Complied.</i> <i>Regular water sprinkling for the suppression of dust particles is carried out in the dust pollution prone area. Regular monitoring is being done at plant site. The ambient air quality parameters are maintained in the plant site falling within the prescribed limit of CPCB. MoEFCC approved lab reports of ambient air are enclosed as <b>Annexure-1</b>.</i>
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	<i>Being Complied..</i> <i>The raw material are being transported in the closed containers, Vehicular emission will be monitored regularly. Vehicles only with the Pollution under Control Certificate (PUC) are allowed to transport the raw material within the Plant site.</i>
7.	Total ground water requirement for the Cement plant shall not exceed 300 m <sup>3</sup> /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 related activities etc. No process wastewater shall be discharged outside the factory premises and "zero" discharge shall be adopted.	<i>We have obtained permission from CGWA for the withdrawal of ground water in the project site. NOC from CGWA is enclosed as <b>Annexure-2</b>. We assure no discharge the treated water outside the project premises. The treated waste water are being/will be used in various operations such as dust suppression and green belt development within the Plant site only. Zero discharge of waste water is assured.</i>

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

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.	<i>Yes, we have constructed Six rain water harvesting pits in the plant site to recharge the ground water table. The Water Balance Chart is enclosed as Annexure-....</i>
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.	<i>We are practicing the recycling of the dust from Bag House, Cement and Clinker dust. The hazardous waste (Spent oil and batteries) are sold to authorized vendor.</i>
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.	We have developed 27.45% green belt area, remaining part is under progress.
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.	We agree to invest 5% of the total cost of the project for the Enterprise Social Commitment. The details of activates with action plan and record for the same are submitting regularly to concerns bodies as. Annexure-3.
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.	Agreed & 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	<i>We have installed the STP of 60 KLD capacity within the Plant site for treatment of the sewage to the prescribed standards including odour and treated effluent will be recycled to achieve zero exit discharge.</i>
14.	The sludge generated shall be treated and used as manure.	<i>Agreed. We are using sludge as manure in greenbelt/ plantation.</i>

**Part B.- General Conditions**

<b>Sr. No.</b>	<b>Condition</b>	<b>Reply</b>
(i)	The project authority must strictly adhere to the stipulations made by the Haryana State Pollution Control Board and the State Government.	<i>Agreed.</i>
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Haryana	<i>Agreed. Any modification or expansion in the plant will never be done without prior permission from SEIAA, Haryana.</i>
(iii)	The gaseous emissions from various process units shall conform to the load/mass based standards notified by Ministry on 19 <sup>th</sup> 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.	<i>We agree to conform the standards notified by Ministry on 19<sup>th</sup> May, 1993. If in any case the authority will define stringent parameters we will be positively following them.</i>
(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 <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> 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.	<i>We have defined four monitoring stations for the monitoring of ambient air quality. Regular monitoring is being conducted in the project site. The lab Reports of stack and Air are enclosed as <b>Annexure 1</b>.</i>
(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).	<i>All the noise control devices are used to control the noise pollution within the project site. The regular noise monitoring is being done as per prescribed rules of EPA, 1989 to record the noise level. The lab report for the ambient noise level is enclosed as <b>Annexure-1</b>.</i>
(vi)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act	<i>The Health surveillance of the workers is regularly maintained as per factories act. <b>Annexure-4</b></i>
(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.	<i>We have constructed four rain water harvesting pits along with six injection pits structure for recharging the ground water.</i>
(viii)	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.	<i>We will comply with all the safeguard measures recommended in EIA/EMP report. The socio-economic developmental activities like community development programmes, educational programming, drinking water supply and health care will be conducted.</i>
(ix)	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.	<i>We have already invested 100% towards the EMP of the cost in installing the bag filters, bag houses, STP and in plantation. Copy enclosed as Annexure-.....</i>
(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	<i>We have already sent the EC Letter to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO. The Clearance</i>



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

	processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	<i>letter has already been displayed on the Company's Website too. Vide Letter No.</i>
(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 <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical <i>sectorial parameters</i> , indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<i>We commit to upload the Compliance of the stipulated environmental clearance conditions, including results of monitored data on the company's website. The same will be sent to SEIAA, Haryana, Regional Office of MoEF, Chandigarh and HSPCB, Panchkula.</i>
(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.	<i>The half yearly compliance report of the plant is regularly prepared and submitted to SEIAA Haryana, Regional Office of MoEF, GoI at Chandigarh and HSPCB, Panchkula in one hard and one soft copy.</i>
(m)	<i>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.</i>	<i>The Environmental Statement of each year shall be prepared and submitted to the authority on timely basis. The same shall also be displayed on the Company's website shall also be sent to SEIAA Haryana and regional office of the MoEF at Chandigarh by e-mail.</i>
(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.	<i>We have published about the project in two local dailies Viz. Dainik Bhaskar (on 09.09.2013) and Haribhoomi (on 10.09.2013) to inform the local public. Vide our Letter No.....</i>
(o)	The SEIAA Haryana may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	<i>Agreed</i>
(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.	<i>Agreed.</i>
(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.	<i>Agreed.</i>
(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	<i>We have provided all the measures for the fire safety. We have also obtained approval for firefighting scheme from Haryana Fire Service Act, 2009. The same is enclosed as <b>Annexure-5</b></i>

regarding fire safety scheme/ NOC from competent  
Authority is required.



# 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

<b>Sample Number:</b>	<b>VEL/JKCW/W/01</b>	<b>Report No.:</b>	<b>VEL/W/2104/001</b>
<b>Name &amp; Address of the Party:</b>	<b>M/s JK Cement Works</b> <b>Mohan Bari Road Jharli - 124106</b> <b>Distt - Jhajjar (Haryana)</b>	<b>Format No.:</b>	<b>7.8 F-01</b>
		<b>Party Reference No.:</b>	<b>NIL</b>
		<b>Reporting Date:</b>	<b>21/04/2021</b>
		<b>Period of Analysis:</b>	<b>16/04/2021 to 21/04/2021</b>
<b>Sample Description:</b>	<b>Drinking Water Sample</b>	<b>Receipt Date:</b>	<b>16/04/2021</b>
<b>Sample Location:</b>	<b>Project Site</b>	<b>Sampling Date:</b>	<b>15/04/2021</b>
<b>Sample Collected by:</b>	<b>Vardan EnviroLab Representative</b>	<b>Preservation:</b>	<b>Refrigerated</b>
<b>Sampling and Analysis Protocol:</b>	<b>IS-3025, APHA</b>	<b>Sampling Quantity:</b>	<b>2.0 Ltr</b>
<b>Parameter Required:</b>	<b>As per Work Order</b>	<b>Sampling Type:</b>	<b>Grab</b>

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012 RA-2018	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA ,4500-H+ B Electrometric Method	7.48	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0. 2 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	51.00	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	17.22	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	85.00	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl- B, Argentometric Method	8.76	mg/l	250	1000
10.	Residual free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL (**DL 0.02mg/l)	mg/l	0.2	1
11.	#Cyanide as CN	APHA , 4500 CN- D	*BDL (**DL 0.05 mg/l)	mg/l	0.05	No Relaxation
12.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	1.95	mg/l	30	100
13.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	98.00	mg/l	500	2000
14.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	0.25	mg/l	200	400
15.	Fluoride as F	APHA , 4500-F- D, SPADNS Method	0.10	mg/l	1.0	1.5
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotropic Method	0.17	mg/l	45	No Relaxation
17.	Iron as Fe	APHA , 3500-Fe B 1,10 Phenanthroline Method	0.08	mg/l	0.3	No relaxation

MEENU KAUSHIK  
SPC ANALYST  
(Tested By)

ARJUN RAWAT  
SPC ANALYST  
(Tested By)



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# 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 No.: VEL/JKCW/W/01			Report No: VEL/W/2104/001			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
18.	Aluminium as Al	APHA , 3111 D, Direct Nitrous Oxide-Acetylene Flame Method	*BDL(**DL 0.02 mg/l)	mg/l	0.03	0.2
19.	Boron	APHA, 4500B C, Carmine Method	*BDL(**DL 0.1 mg/l)	mg/l	0.5	1
20.	Total Chromium as Cr	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.04 mg/l)	mg/l	0.05	No Relaxation
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
22.	#Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	5	15
24.	Copper as Cu	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	Mercury as Hg	APHA , 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622:2009 : 1987, RA:2019	< 2	MPN/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622:2009 : 1987, RA:2019	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample	

Note: #These parameter are not covered in our NABL scope.

\*BDL-Below Detection Limit, \*\*DL- Detection Limit

MEENU KAUSHIK  
SR. ANALYST  
(Tested By)

ARJUN RAWAT  
Panel



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Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: [lab@vardanenvironet.com](mailto:lab@vardanenvironet.com), [bd@vardanenvironet.com](mailto: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/W/02	Report No.:	VEL/W/2104/002
Name & Address of 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:	21/04/2021
		Period of Analysis:	16/04/2021 to 21/04/2021
Sample Description:	Ground Water Sample	Receipt Date:	16/04/2021
Sample Location:	Project Site	Sampling Date:	15/04/2021
Sample Collected by:	Vardan EnviroLab Representative	Preservation:	Refrigerated
Sampling and Analysis Protocol:	IS-10500-2012, APHA	Sampling Quantity:	2.0 Ltr
Parameter Required:	As per Work Order	Sampling Type:	Grab

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA ,4500-H+ B Electrometric Method	7.69	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0. 1 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	149.00	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	41.60	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	138.44	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl- B, Argentometric Method	40.25	mg/l	250	1000
10.	Residual free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.05 mg/l)	mg/l	0.2	1
11.	#Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
12.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	10.98	mg/l	30	100
13.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	470.00	mg/l	500	2000
14.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	8.75	mg/l	200	400
15.	Fluoride as F	APHA , 4500-F- D, SPADNS Method	0.41	mg/l	1.0	1.5
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotropic Method	6.23	mg/l	45	No Relaxation
17.	Iron as Fe	APHA , 3500-Fe B 1,10 Phenanthroline Method	0.12	mg/l	0.3	No relaxation

MEENU KAUSHIK  
SP. ANALYST  
(Tested By)

ARJUN RAWAT  
Pond



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# 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 No.: VEL/JKCW/W/02			Report No.: VEL/W/2104/002			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
18.	Aluminium as Al	APHA , 3111 D, Direct Nitrous Oxide-Acetylene Flame Method	*BDL(**DL 0.05 mg/l)	mg/l	0.03	0.2
19.	Boron	APHA, 4500B C, Carmine Method	0.12	mg/l	0.5	1
20.	Total Chromium as Cr	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.05 mg/l)	mg/l	0.05	No Relaxation
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.003 mg/l)	mg/l	0.001	0.002
22.	# Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.04 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.48	mg/l	5	15
24.	Copper as Cu	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.11	mg/l	0.05	1.5
25.	Manganese as Mn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.08mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA , 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	Mercury as Hg	APHA , 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622	< 2	MPN/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample	

Note: - #These parameter are not covered in our NABL scope.

\*BDL-Below Detection Limit, \*\*DL- Detection Limit

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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
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## Test Report

Sample Number:	VEL/JKCW/A/01	Report No.:	VEL/A/2104/001
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:	12/04/2021
		Period of Analysis:	07/04/2021 to 12/04/2021
		Receipt Date:	07/04/2021

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	: 05/04/2021 to 06/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 39.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	51.25	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	91.24	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	16.31	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.63	µg/m <sup>3</sup>	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.

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## Test Report

Sample Number:	VEL/JKCW/A/02	Report No.:	VEL/A/2104/002
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:	12/04/2021
		Period of Analysis:	07/04/2021 to 12/04/2021
		Receipt Date:	07/04/2021

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	: 05/04/2021 to 06/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 39.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	52.76	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	91.22	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	18.43	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.94	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/03	Report No.:	VEL/A/2104/003
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:	12/04/2021
		Period of Analysis:	07/04/2021 to 12/04/2021
		Receipt Date:	07/04/2021

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	: 05/04/2021 to 06/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 39.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	49.22	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	87.63	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	14.02	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.05	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/04	Report No.:	VEL/A/2104/004
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:	12/04/2021
		Period of Analysis:	07/04/2021 to 12/04/2021
		Receipt Date:	07/04/2021

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	: 05/04/2021 to 06/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 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 <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	47.54	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	88.33	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	15.50	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.12	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/05	Report No.:	VEL/A/2104/005
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:	17/04/2021
		Period of Analysis:	12/04/2021 to 17/04/2021
		Receipt Date:	12/04/2021

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	: 09/04/2021 to 10/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 28.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	50.74	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	88.36	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	14.80	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.71	µg/m <sup>3</sup>	80

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# Vardan EnviroLab

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## Test Report

Sample Number:	VEL/JKCW/A/06	Report No.:	VEL/A/2104/006
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:	17/04/2021
		Period of Analysis:	12/04/2021 to 17/04/2021
		Receipt Date:	12/04/2021

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	: 09/04/2021 to 10/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 28.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	53.40	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	94.52	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	19.76	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.80	µg/m <sup>3</sup>	80

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

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## Test Report

Sample Number:	VEL/JKCW/A/07	Report No.:	VEL/A/2104/007
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:	17/04/2021
		Period of Analysis:	12/04/2021 to 17/04/2021
		Receipt Date:	12/04/2021

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	: 09/04/2021 to 10/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 28.0 Max. 41.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	48.53	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	86.14	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	13.95	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	7.98	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/08	Report No.:	VEL/A/2104/008
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:	17/04/2021
		Period of Analysis:	12/04/2021 to 17/04/2021
		Receipt Date:	12/04/2021

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	: 09/04/2021 to 10/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 28.0 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 <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	48.60	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	89.75	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	16.70	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.15	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/09	Report No.:	VEL/A/2104/009
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:	19/04/2021
		Period of Analysis:	14/04/2021 to 19/04/2021
		Receipt Date:	14/04/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviro 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	: 12/04/2021 to 13/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 42.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	52.11	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	90.40	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob &Hochheiser	17.76	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	9.30	µg/m <sup>3</sup>	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.

MEENU KAUSHIK  
SR. ANALYST  
(Tested By)

ARJUN RAWAT  
(Tested By)



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# 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/2104/010
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:	19/04/2021
		Period of Analysis:	14/04/2021 to 19/04/2021
		Receipt Date:	14/04/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviro 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	: 12/04/2021 to 13/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 42.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	50.22	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	91.81	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob &Hochheiser	18.30	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	9.07	µg/m <sup>3</sup>	80

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

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## Test Report

Sample Number:	VEL/JKCW/A/11	Report No.:	VEL/A/2104/011
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:	19/04/2021
		Period of Analysis:	14/04/2021 to 19/04/2021
		Receipt Date:	14/04/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviro 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	: 12/04/2021 to 13/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 42.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	47.62	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	86.30	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob &Hochheiser	14.92	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.54	µg/m <sup>3</sup>	80

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

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## Test Report

Sample Number:	VEL/JKCW/A/12	Report No.:	VEL/A/2104/012
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:	19/04/2021
		Period of Analysis:	14/04/2021 to 19/04/2021
		Receipt Date:	14/04/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviro 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	: 12/04/2021 to 13/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 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 <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	46.14	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	84.22	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob &Hochheiser	12.61	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.13	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/13	Report No.:	VEL/A/2104/013
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:	24/04/2021
		Period of Analysis:	19/04/2021 to 24/04/2021
		Receipt Date:	19/04/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviro 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	: 16/04/2021 to 17/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 21.0 Max. 38.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	51.48	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	90.14	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	15.10	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	9.11	µg/m <sup>3</sup>	80

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

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## Test Report

Sample Number:	VEL/JKCW/A/14	Report No.:	VEL/A/2104/014
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:	24/04/2021
		Period of Analysis:	19/04/2021 to 24/04/2021
		Receipt Date:	19/04/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviro 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	: 16/04/2021 to 17/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 21.0 Max. 38.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	52.26	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	93.41	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	16.32	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.87	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/15	Report No.:	VEL/A/2104/015
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:	24/04/2021
		Period of Analysis:	19/04/2021 to 24/04/2021
		Receipt Date:	19/04/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviro 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	: 16/04/2021 to 17/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 21.0 Max. 38.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	46.88	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	85.60	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob &Hochheiser	13.10	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.25	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/16	Report No.:	VEL/A/2104/016
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:	24/04/2021
		Period of Analysis:	19/04/2021 to 24/04/2021
		Receipt Date:	19/04/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviro 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	: 16/04/2021 to 17/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 21.0 Max. 38.0
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 <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	47.90	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	85.22	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	14.53	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.12	µg/m <sup>3</sup>	80

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

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# Vardan EnviroLab

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NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/JKCW/A/17	Report No.:	VEL/A/2104/017
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:	26/04/2021
		Period of Analysis:	21/04/2021 to 26/04/2021
		Receipt Date:	21/04/2021

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	: 19/04/2021 to 20/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 40.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	50.45	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	91.56	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	15.77	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	9.01	µg/m <sup>3</sup>	80

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NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/JKCW/A/18	Report No.:	VEL/A/2104/018
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:	26/04/2021
		Period of Analysis:	21/04/2021 to 26/04/2021
		Receipt Date:	21/04/2021

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	: 19/04/2021 to 20/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 40.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	53.04	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	92.30	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob &Hochheiser	15.71	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.91	µg/m <sup>3</sup>	80

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# 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	Report No.:	VEL/A/2104/019
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:	26/04/2021
		Period of Analysis:	21/04/2021 to 26/04/2021
		Receipt Date:	21/04/2021

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	: 19/04/2021 to 20/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 40.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	48.14	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	86.30	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	15.90	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.64	µg/m <sup>3</sup>	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.

MEENU KAUSHIK  
SR. ANALYST  
(Tested By)

ARJUN RAWAT  
(Tested By)







# 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/2104/020
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:	26/04/2021
		Period of Analysis:	21/04/2021 to 26/04/2021
		Receipt Date:	21/04/2021

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	: 19/04/2021 to 20/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 40.0
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 <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	45.11	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	83.55	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	13.70	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.22	µg/m <sup>3</sup>	80

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

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# Vardan EnviroLab

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NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/JKCW/A/21	Report No.:	VEL/A/2104/021
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:	01/05/2021
		Period of Analysis:	26/04/2021 to 01/05/2021
		Receipt Date:	26/04/2021

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	: 23/04/2021 to 24/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 19.0 Max. 34.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	52.36	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	90.44	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob &Hochheiser	17.33	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.75	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/22	Report No.:	VEL/A/2104/022
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:	01/05/2021
		Period of Analysis:	26/04/2021 to 01/05/2021
		Receipt Date:	26/04/2021

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	: 23/04/2021 to 24/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 19.0 Max. 34.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	51.37	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	88.16	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	14.54	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.78	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/23	Report No.:	VEL/A/2104/023
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:	01/05/2021
		Period of Analysis:	26/04/2021 to 01/05/2021
		Receipt Date:	26/04/2021

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	: 23/04/2021 to 24/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 19.0 Max. 34.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	47.23	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	83.12	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	14.10	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	7.96	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/24	Report No.:	VEL/A/2104/024
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:	01/05/2021
		Period of Analysis:	26/04/2021 to 01/05/2021
		Receipt Date:	26/04/2021

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	: 23/04/2021 to 24/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 19.0 Max. 34.0
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 <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	44.20	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	79.02	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	13.99	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.37	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/25	Report No.:	VEL/A/2104/025
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:	03/05/2021
		Period of Analysis:	28/04/2021 to 03/05/2021
		Receipt Date:	28/04/2021

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	: 26/04/2021 to 27/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 40.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	50.37	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	91.05	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	16.25	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.60	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/26	Report No.:	VEL/A/2104/026
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:	03/05/2021
		Period of Analysis:	28/04/2021 to 03/05/2021
		Receipt Date:	28/04/2021

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	: 26/04/2021 to 27/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 40.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	53.05	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	92.65	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	19.01	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	9.42	µg/m <sup>3</sup>	80

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# Vardan EnviroLab

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## Test Report

Sample Number:	VEL/JKCW/A/27	Report No.:	VEL/A/2104/027
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:	03/05/2021
		Period of Analysis:	28/04/2021 to 03/05/2021
		Receipt Date:	28/04/2021

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	: 26/04/2021 to 27/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 40.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	49.02	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	88.61	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	15.02	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.58	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/28	Report No.:	VEL/A/2104/028
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:	03/05/2021
		Period of Analysis:	28/04/2021 to 03/05/2021
		Receipt Date:	28/04/2021

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	: 26/04/2021 to 27/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 40.0
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 <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	47.11	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	84.96	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	13.62	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.18	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/29	Report No.:	VEL/A/2104/029
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:	06/05/2021
		Period of Analysis:	01/05/2021 to 06/05/2021
		Receipt Date:	01/05/2021

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab 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	: 29/04/2021 to 30/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 39.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	51.24	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	92.16	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob &Hochheiser	17.60	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.67	µg/m <sup>3</sup>	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.

MEENU KAUSHIK  
SR. ANALYST  
(Tested By)

ARJUN RAWAT  
(Tested By)







# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
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## Test Report

Sample Number:	VEL/JKCW/A/30	Report No.:	VEL/A/2104/030
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:	06/05/2021
		Period of Analysis:	01/05/2021 to 06/05/2021
		Receipt Date:	01/05/2021

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	: 29/04/2021 to 30/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 39.0
Surrounding Activity	: Human, Vehicular and Cement plant activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	52.10	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	90.15	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	16.33	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.76	µg/m <sup>3</sup>	80

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# Vardan EnviroLab

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## Test Report

Sample Number:	VEL/JKCW/A/31	Report No.:	VEL/A/2104/031
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:	06/05/2021
		Period of Analysis:	01/05/2021 to 06/05/2021
		Receipt Date:	01/05/2021

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	: 29/04/2021 to 30/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 Max. 39.0
Surrounding Activity	: Human, Vehicular and Rail activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: Water Spray
Sampling & Analysis Protocol	: IS-5182 & CPCB Guideline
Parameter Required	: PM <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	48.40	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	86.36	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	14.50	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	8.66	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/A/32	Report No.:	VEL/A/2104/032
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:	06/05/2021
		Period of Analysis:	01/05/2021 to 06/05/2021
		Receipt Date:	01/05/2021

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	: 29/04/2021 to 30/04/2021
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 22.0 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 <sub>2.5</sub> , PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub>

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	46.30	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23), Gravimetric Method	82.62	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hochheiser	12.74	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke	7.98	µg/m <sup>3</sup>	80

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## Test Report

Sample Number:	VEL/JKCW/S/01	Report No.:	VEL/S/2104/001
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:	21/04/2021
		Period of Analysis:	16/04/2021 to 21/04/2021
Sample Description:	Soil Sample	Receipt Date:	16/04/2021
Sample Location:	Garden Area	Sampling Date:	15/04/2021
Sample Collected by:	Vardan EnviroLab Representative	Sampling Quantity:	2.0 Kg
Sampling and Analysis Protocol:	IS 2720 & SOP	Sampling Type:	Composite
Parameter Required:	As per work order	Packing Status:	Temp Sealed

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	7.53	--
2.	Conductivity	IS:14767 by Conductivity meter	0.328	mS/cm
3.	Soil Texture	IS : 2720 (P-22, RA2003)	Silty Loam	--
4.	Color	SOP , SP-78,Issue No.-01& Issue Date-14/02/2013	Yellowish Brown	--
5.	Water holding capacity	SOP , SP-81,Issue No.-01& Issue Date-14/02/2013	28.45	%
6.	Bulk density	SOP , SP-80,Issue No.-01& Issue Date-14/02/2013	1.26	gm/cc
7.	Chloride as Cl	SOP , SP-85,Issue No.-01& Issue Date-14/02/2013	59.42	mg/kg
8.	Calcium as Ca	SOP , SP-82,Issue No.-01& Issue Date-14/02/2013	50.36	mg/kg
9.	Sodium as Na	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	34.18	mg/kg
10.	Potassium as K	SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	124.63	kg/hect.
11.	Organic Matter	IS:2720 (P-22) Titrimetric Method	0.61	%
12.	Magnesium as Mg	SOP , SP-83,Issue No.-01& Issue Date-14/02/2013	25.21	mg/kg
13.	Available Nitrogen as N	IS:14684 Distillation Method	211.26	kg/hect.
14.	Available Phosphorus	SOP , SP-86,Issue No.-01& Issue Date-14/02/2013	25.70	kg/hect.
15.	Zinc (as Zn)	USEPA 3050B	12.56	mg/kg
16.	Manganese (as Mn )	USEPA 3050B	3.42	mg/kg
17.	Lead (as Pb)	USEPA 3050B	0.66	mg/kg
18.	Cadmium (as Cd )	USEPA 3050B	0.69	mg/kg
19.	Chromium (as Cr)	USEPA 3050B	2.10	mg/kg
20.	Copper (as Cu )	USEPA 3050B	13.26	mg/kg

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## Test Report

Sample Number:	VEL/JKCW/ST/01	Report No.:	VEL/ST/2104/001
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:	21/04/2021
		Period of Analysis:	16/04/2021 to 21/04/2021
		Receipt Date:	16/04/2021

Sample Description: STACK EMISSION MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Date	: 14/04/2021
Sampling Location	: Near Bag House
Sampling Duration (Minutes)	: 31.0
Stack Attached to	: Ballmill 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)	: 34.0
Temperature of Stack Gases-Ts (°C)	: 166.0
Velocity of Stack Gases (m/sec.)	: 9.48
Flow rate of PM (LPM)	: 25.0
Flow rate of Gas (LPM)	: 2.0
Sampling Condition	: Isokinetic
Protocol Used	: IS :11255

S. No.	Parameter	Protocol	Result	Unit
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	27.42	mg/Nm <sup>3</sup>

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# Vardan EnviroLab

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## Test Report

Sample Number:	VEL/JKCW/ST/02	Report No.:	VEL/ST/2104/002
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:	21/04/2021
		Period of Analysis:	16/04/2021 to 21/04/2021
		Receipt Date:	16/04/2021

Sample Description: STACK EMISSION MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Date	: 14/04/2021
Sampling Location	: Near D.G Set Area
Sampling Duration (Minutes)	: 33.0
Stack Attached to	: D.G Set No. 3 - 750 KVA
Metrological Condition	: Clear Sky
Instrument Calibration Status	: OK
Ambient Temperature-Ta (°C)	: 35.0
Temperature of Stack Gases-Ts (°C)	: 187.0
Velocity of Stack Gases (m/sec.)	: 8.56
Flow rate of PM (LPM)	: 23.0
Flow rate of Gas (LPM)	: 2.0
Sampling Condition	: Isokinetic
Protocol Used	: IS :11255

S. No.	Parameter	Protocol	Result	Unit	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	0.087	gm/Kw-hr	≤0.2
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7) Colorimetric Method	1.46	gm/Kw-hr	≤4.0
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (P-2) Titrimetric Method	11.54	mg/Nm <sup>3</sup>	--
4.	Carbon Monoxide (as CO)	*SOP No. VEL/SOP/01, Section No. SP 74	0.35	gm/Kw-hr	≤3.5

\* SOP-Laboratory Standard operating procedure.

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## Test Report

Sample Number:	VEL/JKCW/ST/03	Report No.:	VEL/ST/2104/003
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:	21/04/2021
		Period of Analysis:	16/04/2021 to 21/04/2021
		Receipt Date:	16/04/2021

Sample Description: STACK EMISSION MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Date	: 15/04/2021
Sampling Location	: Near D.G Set Area
Sampling Duration (Minutes)	: 30.0
Stack Attached to	: D.G Set No. 1- 250 KVA
Metrological Condition	: Clear Sky
Instrument Calibration Status	: OK
Ambient Temperature-Ta (°C)	: 41.0
Temperature of Stack Gases-Ts (°C)	: 169.0
Velocity of Stack Gases (m/sec.)	: 8.12
Flow rate of PM (LPM)	: 26.0
Flow rate of Gas (LPM)	: 2.0
Sampling Condition	: Isokinetic
Protocol Used	: IS :11255

S. No.	Parameter	Protocol	Result	Unit	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	0.079	gm/Kw-hr	≤0.2
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7) Colorimetric Method	1.40	gm/Kw-hr	≤4.0
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (P-2) Titrimetric Method	15.71	mg/Nm <sup>3</sup>	--
4.	Carbon Monoxide (as CO)	*SOP No. VEL/SOP/01, Section No. SP 74	0.27	gm/Kw-hr	≤3.5

\* SOP-Laboratory Standard operating procedure

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## Test Report

Sample Number:	VEL/JKCW/ST/04	Report No.:	VEL/ST/2104/004
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:	21/04/2021
		Period of Analysis:	16/04/2021 to 21/04/2021
		Receipt Date:	16/04/2021

Sample Description: STACK EMISSION MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Date	: 15/04/2021
Sampling Location	: Near D.G Set Area
Sampling Duration (Minutes)	: 30.0
Stack Attached to	: D.G Set No. 2 -250 KVA
Metrological Condition	: Clear Sky
Instrument Calibration Status	: OK
Ambient Temperature-Ta (°C)	: 41.0
Temperature of Stack Gases-Ts (°C)	: 192.0
Velocity of Stack Gases (m/sec.)	: 8.16
Flow rate of PM (LPM)	: 24.0
Flow rate of Gas (LPM)	: 2.0
Sampling Condition	: Isokinetic
Protocol Used	: IS :11255

S. No.	Parameter	Protocol	Result	Unit	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	0.075	gm/Kw-hr	≤0.2
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7) Colorimetric Method	1.36	gm/Kw-hr	≤4.0
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (P-2) Titrimetric Method	13.78	mg/Nm <sup>3</sup>	--
4.	Carbon Monoxide (as CO)	*SOP No. VEL/SOP/01, Section No. SP 74	0.31	gm/Kw-hr	≤3.5

\* SOP-Laboratory Standard operating procedure

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## Test Report

Sample Number:	VEL/JKCW/AN/01	Report No.:	VEL/AN/2104/001
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:	19/04/2021
		Period of Analysis:	14/04/2021 to 19/04/2021
		Receipt Date:	14/04/2021

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Location	: Near Gate No – 1
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/S/SLM/01
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 12/04/2021 to 13/04/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular and Cement plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 R-2014 & CPCB Guideline
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Lmax	IS 9989 R-2014	74.2	58.5	dB(A)
2.	Lmin	IS 9989 R-2014	53.1	40.6	dB(A)
3.	Leq	IS 9989 R-2014	63.50	47.20	dB(A)
4.	CPCB Limits in dB(A*) Leq ( Industrial Area )	-	75.00	70.00	dB(A)

Note \*A "decibel" is a unit in which noise is measured.

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## Test Report

Sample Number:	VEL/JKCW/AN/02	Report No.:	VEL/AN/2104/002
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:	19/04/2021
		Period of Analysis:	14/04/2021 to 19/04/2021
		Receipt Date:	14/04/2021

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Location	: Near Gate No – 2
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/S/SLM/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 12/04/2021 to 13/04/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular and Cement plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 R-2014 & CPCB Guideline
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Lmax	IS 9989 R-2014	75.2	59.5	dB(A)
2.	Lmin	IS 9989 R-2014	54.1	41.2	dB(A)
3.	Leq	IS 9989 R-2014	65.10	49.20	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area )	-	75.00	70.00	dB(A)

Note \*A "decibel" is a unit in which noise is measured.

MEENU KAUSHIK  
SR. ANALYST  
(Tested By)

ARJUN RAWAT  
Pond



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# 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/AN/03	Report No.:	VEL/AN/2104/003
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:	19/04/2021
		Period of Analysis:	14/04/2021 to 19/04/2021
		Receipt Date:	14/04/2021

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Location	: Railway Line Side
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/S/SLM/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 12/04/2021 to 13/04/2021
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human, Vehicular and Rail Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 R-2014 & CPCB Guideline
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Lmax	IS 9989 R-2014	69.2	58.5	dB(A)
2.	Lmin	IS 9989 R-2014	51.6	39.1	dB(A)
3.	Leq	IS 9989 R-2014	60.20	49.70	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area )	-	75.00	70.00	dB(A)

Note \*A "decibel" is a unit in which noise is measured.

MEENU KAUSHIK  
SR. ANALYST  
(Tested By)

ARJUN RAWAT  
(Tested By)



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# 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/AN/04	Report No.:	VEL/AN/2104/004
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:	19/04/2021
		Period of Analysis:	14/04/2021 to 19/04/2021
		Receipt Date:	14/04/2021

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Location	: Near Wagon Tippler
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/S/SLM/05
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 12/04/2021 to 13/04/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular and Cement plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 R-2014 & CPCB Guideline
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Lmax	IS 9989 R-2014	70.5	57.6	dB(A)
2.	Lmin	IS 9989 R-2014	51.7	40.6	dB(A)
3.	Leq	IS 9989 R-2014	61.70	47.30	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area )	-	75.00	70.00	dB(A)

Note \*A "decibel" is a unit in which noise is measured.

MEENU KAUSHIK  
SR. ANALYST  
(Tested By)

ARJUN RAWAT  
Sr. Analyst



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# 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/AN/05	Report No.:	VEL/AN/2104/005
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:	03/05/2021
		Period of Analysis:	28/04/2021 to 03/05/2021
		Receipt Date:	28/04/2021

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Location	: Near Gate No – 1
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/S/SLM/01
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 26/04/2021 to 27/04/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular and Cement plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 R-2014 & CPCB Guideline
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Lmax	IS 9989 R-2014	76.8	66.7	dB(A)
2.	Lmin	IS 9989 R-2014	57.3	45.2	dB(A)
3.	Leq	IS 9989 R-2014	67.40	55.30	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area )	-	75.00	70.00	dB(A)

Note \*A "decibel" is a unit in which noise is measured.

MEENU KAUSHIK  
SR. ANALYST  
(Tested By)

ARJUN RAWAT  
Sr. Analyst



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# 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/AN/06	Report No.:	VEL/AN/2104/006
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:	03/05/2021
		Period of Analysis:	28/04/2021 to 03/05/2021
		Receipt Date:	28/04/2021

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Location	: Near Gate No – 2
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/S/SLM/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 26/04/2021 to 27/04/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular and Cement plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 R-2014 & CPCB Guideline
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Lmax	IS 9989 R-2014	70.8	56.2	dB(A)
2.	Lmin	IS 9989 R-2014	52.3	40.3	dB(A)
3.	Leq	IS 9989 R-2014	62.30	46.40	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area )	-	75.00	70.00	dB(A)

Note \*A “decibel” is a unit in which noise is measured.

MEENU KAUSHIK  
SR ANALYST  
(Tested By)

ARJUN RAWAT  
Panel



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# 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/AN/07	Report No.:	VEL/AN/2104/007
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:	03/05/2021
		Period of Analysis:	28/04/2021 to 03/05/2021
		Receipt Date:	28/04/2021

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Location	: Railway Line Side
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/S/SLM/04
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 26/04/2021 to 27/04/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular and Rail Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 R-2014 & CPCB Guideline
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Lmax	IS 9989 R-2014	77.3	62.8	dB(A)
2.	Lmin	IS 9989 R-2014	56.4	43.6	dB(A)
3.	Leq	IS 9989 R-2014	67.60	52.50	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area)	-	75.00	70.00	dB(A)

Note \*A "decibel" is a unit in which noise is measured.

MEENU KAUSHIK  
SQA ANALYST  
(Tested By)

ARJUN RAWAT  
Panel



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# 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/AN/08	Report No.:	VEL/AN/2104/008
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:	03/05/2021
		Period of Analysis:	28/04/2021 to 03/05/2021
		Receipt Date:	28/04/2021

Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Client Representative	: Mr. Anirudh Dani (Plant Head)
Sample collected by	: VardanEnviroLab Representative
Sampling Location	: Near Wagon Tippler
Instrument Used	: Sound Level Meter
Instrument Code	: VEL/S/SLM/05
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 26/04/2021 to 27/04/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Surrounding Activity	: Human, Vehicular and Cement plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989 R-2014 & CPCB Guideline
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	Lmax	IS 9989 R-2014	65.7	51.3	dB(A)
2.	Lmin	IS 9989 R-2014	44.3	39.9	dB(A)
3.	Leq	IS 9989 R-2014	57.20	45.60	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area )	-	75.00	70.00	dB(A)

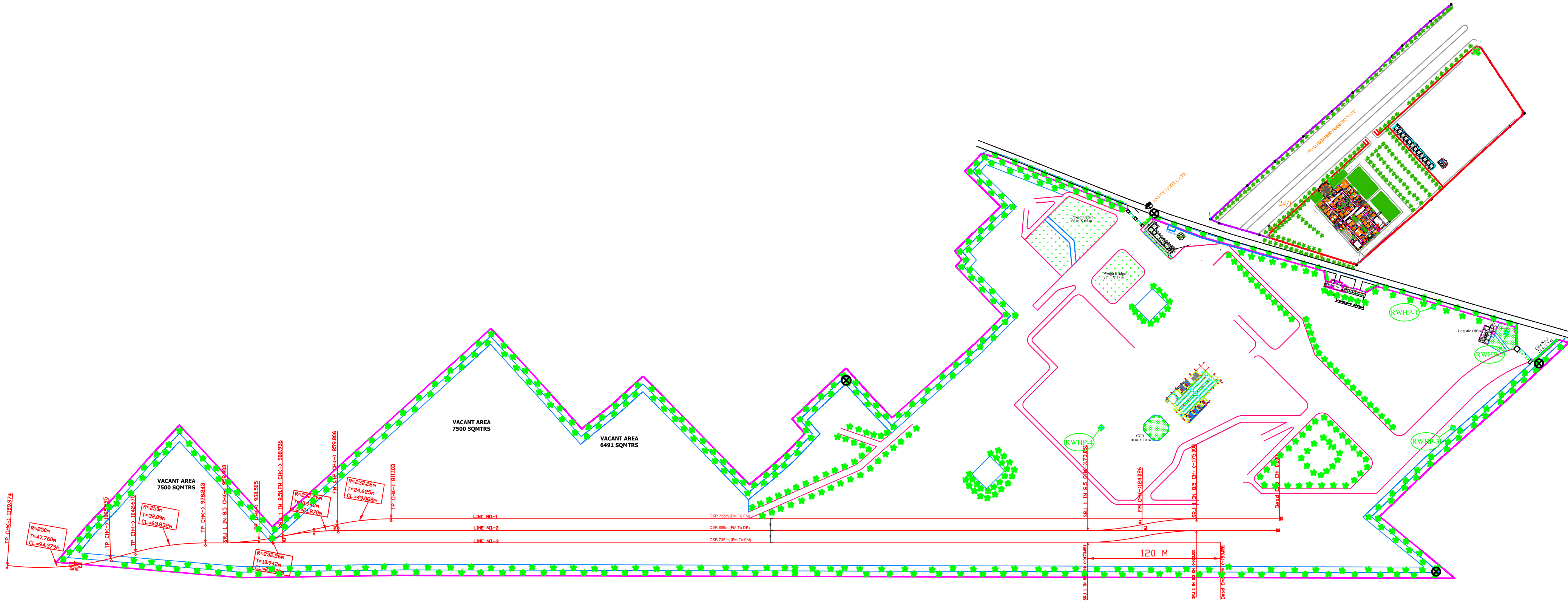
Note \*A "decibel" is a unit in which noise is measured.

MEENU KAUSHIK  
SPL ANALYST  
(Tested By)

ARJUN RAWAT  
(Tested By)



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TOTAL GREEN BELT AREA COVERED - 83000 Sq. Mtr.

TOTAL PLANT AREA - 291374 Sq. Mtr.

- ⊗—AMBIENT AIR MONITORING STATION (4 LOCATIONS)
- ✱—GREEN BELT AREA
- ☒—RAIN WATER HARVESTING PIT (RWHP)

J.K. CEMENT WORKS, JHARLI DISTT. JHAJJAR (HAR.)		
SCALE: 1:1750	GRINDING UNIT (HARYANA)	REF.DRG.No.-
DATE : 01-06-2020	GREEN BELT AREA & RAIN WATER HARVESTING PIT OF GRINDING UNIT	
DRAWN : SURESH	JHARLI JHAJJAR.	SECTION No.- 1/18
CHECKED: HARIKESH		
APPROVED:	DRG. No.- JKGI - A - GN - 18 R12	

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 of Deputy Commissioner, Jhajjar Memo No. 930/LFA Dated 20/06/2018.

The No. objection Certificate is issued with 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)



Government of India  
Ministry of Jal Shakti  
Department of Water Resources, River Development and Ganga Rejuvenation  
Central Ground Water Authority (CGWA)



### Application for Issue of NOC to Abstract Ground Water (NOCAP)

Welcome : jkcement

Previous Login Date Time: 01/03/2019 17:10:04 PM , IP Address: 202.191.153.2

Logout

[Applicant Home](#) | 
 [Apply](#) | 
 [Feedback](#) | 
 [Change Password](#) | 
 [Profile](#)

#### Information

[Guidelines](#)  
[Steps for Filling](#)  
[Online Application](#)

#### Documents Required

[Documents Required for Online Application](#)

- ▶ Industrial
- ▶ Infrastructure
- ▶ Mining

#### Track Status

[Application Status](#)  
 ▶ Online

#### Location

[Area Type](#)  
[Segment-B Area Type](#)  
[Regional office](#)  
[Location](#)  
[CGWA](#)  
[Headquarters](#)

#### Reports

[Applied for NOC - Online](#)  
[NOC Issued-Online](#)

#### Contact Us

[Contact](#)

#### Application Status

Application No :	21-4/1296/HR/IND/2017
Receive Date :	30/12/2017
Name of Industry :	J. K. CEMENT LIMITED
Application Processing Fee :	Rs. 1000.00/- (Rupees One Thousand Only) (Submitted: Yes)
Current Stage :	Application Verification Stage
Current Status :	Referback
Address :	Central Ground Water Board North Western Region Bhujal Bhawan Plot No. 3B, Sector 27-A CHANDIGARH CHANDIGARH

#### Current Status

Application Verification							
Receive Date	From User Name	To User Name	Forwarded User Name	Action Date	Action Internal Status	Action Comment	Copy of Application Received On
30/12/2017		(Evaluation Officer) Central Ground Water Board North Western Region		27/08/2018	Referback	Referback letter being sent separeately	08/01/2018

Application Processing								
Receive Date	From User Name	To User Name	Forwarded User Name	Action Date	Action Internal Status	Action Comment	Ground Water	Ground Water

							Recom Per Day	Recom Annual
No Record for this Stage.								
NOC Processing								
Receive Date	From User Name	To User Name	Forwarded User Name	Action Date	Action Internal Status	Action Comment		
No Record for this Stage.								
NOC Disbursement								
Receive Date	From User Name	To User Name	Forwarded User Name	Action Date	Action Internal Status	Action Comment		
No Record for this Stage.								
<a href="#">Go Back</a>								



# J.K.CEMENT WORKS, JHARLI

## PERIODICAL MEDICAL EXAMINATION

Date: 21.10.2020

Employee / Worker Name RAVINDER IIAge 37 Sex MaleE. Code / Gate Pass 7000100 Contractor M/s SLV Security ServicesDepartment SECURITYDesignation Civilian-AHeight 1.77 Cm, Weight 62 Kg. Body Temp 98 °F SpO2 98%Mark of identification 8m 02 21 10 2020Drug allergy NOHistory of any chronic diseases NODigestive System - P/A NO Liver NO Spleen NORespiratory System - R.R. NO Chest NOSpirometry NO CXR NO Audiometry NOCVS- H.R. 78 B.P. 120/80 Heart sound N Murmur N ECG NOCNS NO Vision - Near N Distant 6/6 Colour vision NORMALBlood group & RH O+ Blood Sugar (RBS) 92Other investigations if any NOMedical advice NOI hereby certify that Mr. RAVINDER II s/o Shri RAMNIWASFound medically ☒ Fit / ☐ Unfit for employment.Signature of person examined 21/10/2020Date 21.10.2020

Dr. Deepak Gupta

M.B.B.S.

Chest Physician

(Signature with Registration No. 31/10/2020)

And seal of qualified

Allopathic Medical Practitioner)

\*\*Some of the test not done / possible due to Covid 19 Safety Precautionary Measures & General Health Conditions



# J.K.CEMENT WORKS, JHARLI

## PERIODICAL MEDICAL EXAMINATION

Date: 20.10.2020

Employee / Worker Name NARVINDER

Age 33 Yrs Sex Male

E. Code / Gate Pass 6000008 Contractor M/s Shree Jee Traders

Department MATERIALS

Designation LABOUR-B

Height 172 Cm, Weight 60 Kg. Body Temp 98 °F SpO2 98 %

Mark of identification NO SIDE NECK

Drug allergy NO

History of any chronic diseases NO

Digestive System - P/A NO Liver NO Spleen NO

Respiratory System - R.R. 16/min Chest Clear

Spirometry — CXR — Audiometry —

CVS - H.R. 82 B.P. 118/78 Heart sound Normal Murmur None ECG NO

CNS NO Vision - Near NS Distant 6/6 Colour vision Normal

Blood group & RH A +ve Blood Sugar (RBS) 84 mg/dl

Other investigations if any NO

Medical advice NO

I hereby certify that Mr. NARVINDER s/o Shri VIJAYPAL

Found medically ☒ Fit / ☐ Unfit for employment.

Signature of person examined

Date 20/10/2020

Dr. Dhanak Gupta

M.B.B.S.

Chest Physician

20/10/2020

(Signature with Registration No.)

And seal of qualified

Allopathic Medical Practitioner)

\*\*Some of the test not done / possible due to Covid 19 Safety Precautionary Measures & General Health Conditions



# J.K.CEMENT WORKS, JHARLI

## PERIODICAL MEDICAL EXAMINATION

Date: 21-10-2020

Employee / Worker Name MANOJAge 35 Sex MaleE. Code / Gate Pass 6000080 Contractor M/s Shree Jee TradersDepartment ADMINDesignation CLEANERHeight 164 Cm, Weight 44 Kg. Body Temp 98.8 °F SpO2 98 %Mark of identification B M O N C R O N D E KDrug allergy NOHistory of any chronic diseases NODigestive System - P/A NO Liver NO Spleen NORespiratory System - R.R. 16 /min. Chest Clear, ARBSSpirometry — CXR — Audiometry —CVS- H.R. 82 B.P. 116/78 Heart sound N Murmur N ECG MTCNS (N) Vision - Near NS Distant 6/6 Colour vision NS (MT)Blood group & RH — Blood Sugar (RBS) 92 mg/dlOther investigations if any NOMedical advice - consider fit after providing blood groupI hereby certify that Mr. MANOJ s/o Shri SATBIRFound medically ☒ Fit / ☐ Unfit for employment.

Signature of person examined

Date 21/10/2020

Dr. Deepak Gupta  
M.B.B.S.  
Chest Physician

25613/mce  
31/10/2020

(Signature with Registration No.  
And seal of qualified  
Allopathic Medical Practitioner)

\*\*Some of the test not done / possible due to Covid 19 Safety Precautionary Measures & General Health Conditions



# J.K.CEMENT WORKS, JHARLI

## PERIODICAL MEDICAL EXAMINATION

Date: 22/10/2020

Employee / Worker Name DESH RAM

Age 42 Sex Male

E. Code / Gate Pass 7000057 Contractor M/s SLV Security Services

Department SECURITY

Designation Civilian-A

Height 170 Cm, Weight 87 Kg. Body Temp 98 °F SpO2 98 %

Mark of identification RAM CH855 (17)

Drug allergy no

History of any chronic diseases no

Digestive System - P/A no Liver no Spleen no

Respiratory System - R.R. no Chest no

Spirometry no CXR no Audiometry no

CVS- H.R. 78 B.P. 110/60 Heart sound no Murmur no ECG no

CNS no Vision - Near 25/2 Distant 6/6 Colour vision no

Blood group & RH B+ve Blood Sugar (RBS) 94

Other investigations if any no

Medical advice - no

I hereby certify that Mr. DESH RAM s/o Shri JAG RAM

Found medically ☒ Fit / ☐ Unfit for employment.

Signature of person examined

Date 22/10/2020

Dr. Deepak Gupta  
M.B.B.S.

Chest Physician

MC/25813  
31/10/2020  
(Signature with Registration No.)

And seal of qualified  
Allopathic Medical Practitioner)

\*\*Some of the test not done / possible due to Covid 19 Safety Precautionary Measures & General Health Conditions



### **Donation for Animal Food**

On 5<sup>th</sup> November 2020 a group of Jharli team members visited Khanpur Khurd village and donated Rs. 50,000/- to Mr. Uday Singh, Sarpanch Khanpur Khurd for animal fodder on behalf of J. K. Cement Works Jharli in the presence of villagers.



Mr. Ashok Kumar from HR & Admin. Jharli donating to village Sarpanch.