

# JK Cement WORKS

(Unit of JK Cement Ltd.)

CIN : L17229UP1994PLC017199  
ISO 9001, ISO 14001 & OHSAS 18001 Certified  
P.O. GOTAN - 342 902 District - Nagaur (Rajasthan) INDIA  
Phone : (01591) 230201-03 (PBX), 230976 (D), Fax : 230206

JKC/ENV/13 A/

Reg. A/d & Mail

Date: 21.07.2020

The Director,  
MoEF Regional Office (Central Region)  
5th Floor, Kendriya Bhawan, Sector 'H' Aliganj,  
Lucknow – 226 024

Subject: Compliance of Environmental Clearance conditions for production of 471900 TPA grey cement at J K Cement Works, Gotan (Period 1<sup>st</sup> January, 2020 to 30<sup>th</sup> June, 2020) as per Gazette notification 26 November, 2018.  
Ref. : Your letter No. J-11011/63/2008-IA-II dated August 18, 2008

Dear Sir,

Please find below the point – wise reply of the compliance conditions communicated for production of grey cement 471900 TPA & setting up clinker 262500 TPA as above referred letter.

Name of the Project : Expansion of Grey Cement from 84000 TPA to 471900 TPA & setting up of Clinker 262500 TPA  
Clearance Letter No. : J-11011/63/2008-IA-II dated August 18, 2008.

## SPECIFIC CONDITIONS:

S. No.	Conditions	Compliance Status
1.	The company shall install Electrostatic Precipitator (ESP) to raw mill and kiln, Cyclone to cooler, bag house to cement mill and bag filter to crusher to control particulate emissions within 50mg/Nm <sup>3</sup> . The company shall provide air pollution monitoring arrangements with stacks and vents. Regular monitoring reports shall be submitted to the Rajasthan Pollution Control Board, CPCB and Ministry's Regional Office at Lucknow.	We have installed ESP at the raw mill & kiln, bag houses at cement mill and crusher with all monitoring facilities have also been provided. Regular monitoring is being conducted & results have been sent to concerned departments.
2.	Bag house/ filters shall be provided to control the fugitive emissions generated during material transfer, packing, loading and unloading. The project authorities shall store all the raw materials except limestone in the covered sheds to control fugitive emissions.	We have already taken care for controlling the fugitive dust emission by adopting the better house keeping, concreting the movement areas and development of Green belt.  Bag filters have been installed at material transfer, packing, loading & unloading points.



### Regd. Office

J.K. Cement Ltd.  
Kamla Tower, KANPUR-208001  
Ph. : 0512-2371478-83  
Fax : 0512-2399854  
Email : admin@jkcement.com  
Website : www.jkcement.com

### Jaipur Office

206, Axis Mall, Bhagwan Das Road  
C-Scheme, Jaipur (Raj.)  
Ph : 0141-2379739  
Fax : 0141-2379740  
Email : jkwc.jaipur@jkcement.com

### Jodhpur Office

70, Sector 7 Extn., Indra Vihar Street  
New Power House Road, Jodhpur-342003  
Ph : 0291-2432021, 2433072  
Fax : 0291-2433071  
Email : jodhpur.office@jkcement.com





3.	The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Rajasthan Pollution Control Board (RPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Presently there are four manual ambient air quality monitoring stations have been set up as well as Four Continuous Ambient Air Quality Monitoring Stations as per guidelines. All Continuous Ambient Air Quality Monitoring Stations connected to RSPCB & CPCB servers.
4.	The water requirement shall not exceed 1000 KLD. The company shall obtain the prior permission for drawl of ground water from the Central Ground Water Authority / Central Ground Water Board. The copy of the permission letter shall be submitted to the Ministry's Regional Office at Lucknow within 3 months from date of issue of this letter.	We assure for the same i. e. the water consumption shall not exceed the limit. Permission for the same has been obtained from CGWA.
5.	The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.	We have provided very well Rainwater harvesting System. Drawing and other in Letter No.- JKC/ENV/13 A/ dated 26.11.2014 and subsequent correspondence to CGWA compliances on yearly basis.
6.	Green belt shall be developed at least in 33 % of plant area to mitigate the effect of fugitive emissions all around the plant as per the guidelines of Central Pollution Control Board.	We have developed and well maintained more than 33% green belt area of plant area which is tree sapling of Neem, Desi Ashok, Pendular Ashok, Arjun etc. has been planted around the plant boundary, near by area, colony area. Refer layout attached <b>Annexure-1</b>
7.	The project authorities shall transport the raw materials and cement in covered means to avoid fugitive emission during transport.	Transportation of all powder form of raw materials & finished product are done by means of covered conveyor system.
8.	All the recommendations mentioned in the CREP guidelines for the cement plants shall be followed and complied.	We are followed the recommendation of CREP guidelines as applicable.
9.	The commitments made during public hearing shall be complied with. A detailed action plan regarding compliance of the commitments made during public hearing shall be submitted to the Ministry's Regional Office at Lucknow within 3 months from date of issue of this letter.	Point wise Public Hearing commitments are as follows: 1. There could be some damage to residential properties due to Blasting operation carried out in the Mines area. - Blasting is carried out done under controlled conditions following all safety norms. 2. The company should open new school in the residential clusters where the company is operating - We have engaged 3 nos. of buses to carry students of near by villages at our school LK Singhania Education Centre, in J K White Cement Works premises Gotan free of cost. 3. Air pollution will take place in Borunda area due to lime kilns operation - Our factory is situated at Gotan, about 30 kms away from Borunda village however we are taking care for control the air pollution on regular basis. 4. No employment of child labour. - No child labour is employed in the factory as our social policy. Company is ISO 9001,14001& OHSAS 18001 Certified

GENERAL CONDITIONS:





1.	The project authorities shall strictly adhere to the stipulations of the SPCB/State Government or any statutory body.	We have followed all the stipulations of the statutory body given time to time and shall continue to follow the same.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	It shall be followed at all times. Changes if any shall be under taken with due permissions.
3.	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	We agree to follow the prescribed norms.
4.	The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> ) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time.	Four AAQM stations are monitored regularly for the parameters of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> & CO. Results are well within the stipulated norms & results have been sent to concerned department/ authorities.  Four CAAQM stations are installed at site and connected to RSPCB & CPCB servers for online monitoring.  Refer recognized Lab Monitoring reports Attached: <b>Annexure-2</b>
5.	The company shall undertake following Waste Minimization measures. <ul style="list-style-type: none"> <li>➤ Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</li> <li>➤ Use of "Close pneumatic" system for transport of fine material.</li> <li>➤ All Venting systems shall be connected with dust arresting equipments.</li> <li>➤ Dust collect in pollution control equipments shall be reused.</li> </ul>	We have already taken care for controlling the dust by adopting the better house keeping and covered storage area.  Bag filters have been installed at material transfer, packing, loading, unloading & at venting systems to arrest dust.  Dust collected in pollution control equipments is being reused.
6.	Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.	Fugitive emissions in the work zone environment, product and raw materials storage area have been monitored regularly. Results are well within the stipulated norms.
7.	The overall noise levels in and around the plant area shall be kept well within the standards 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Regular noise monitoring is being done around plant boundary. Noise levels are well within stipulated norms. Proper enclosures have been provided at high noise area. PPEs have been provided to all the workers.  Recognized Lab Monitoring reports Attached: <b>Annexure-2</b>
8.	Occupational health and safety measures shall be undertaken. Periodic monitorial for exposure to dust on the workers should be conducted and records maintained including health records of the workers. The company shall engage a doctor who is trained in occupational health.	Periodic health checkup of all the employees have been conducted at our dispensary where all facilities are available.  <b>Refer report attached Annexure:-3</b>
9.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Various eco – developmental measures including community welfare programs have been conducted time to time in the area such as plantation program, free eye camp, free bus service for students, construction of Dharmashala, RO water to villagers etc.





10.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management cell has been setup. The Unit Head looks after the total control of pollutions, monitoring & maintenance of pollution control devices with the help of Technical -Head along with mechanical department, Environment Department, Environment Officers, Engineers (Chemical) & a trained team.
11.	The project authorities shall earmark adequate fund to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for all the conditions stipulated herein shall be submitted to the Ministry's Regional Office. The funds so provided shall not be diverted for any other purpose.	The all allocated work has been completed. Implementation of the conditions as stipulated by the MoEF & State Government Compliances already certified by your good office.
12.	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	We assure to submit timely compliance report to concerned departments.
13.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Grant of Environmental Clearance was advertised in Rajasthan Patrika & Dainik Bhasker on dated 20.08.2008.
14.	The 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 start of the project.	The intimation given to RO office RSPCB & Ministry.

We hope you will find the document in order. Kindly acknowledge the receipt.

Thanking you,

Yours Faithfully,

For Environment Works



Dr. Ranjeet Kumar Bagariya  
Head- Environment

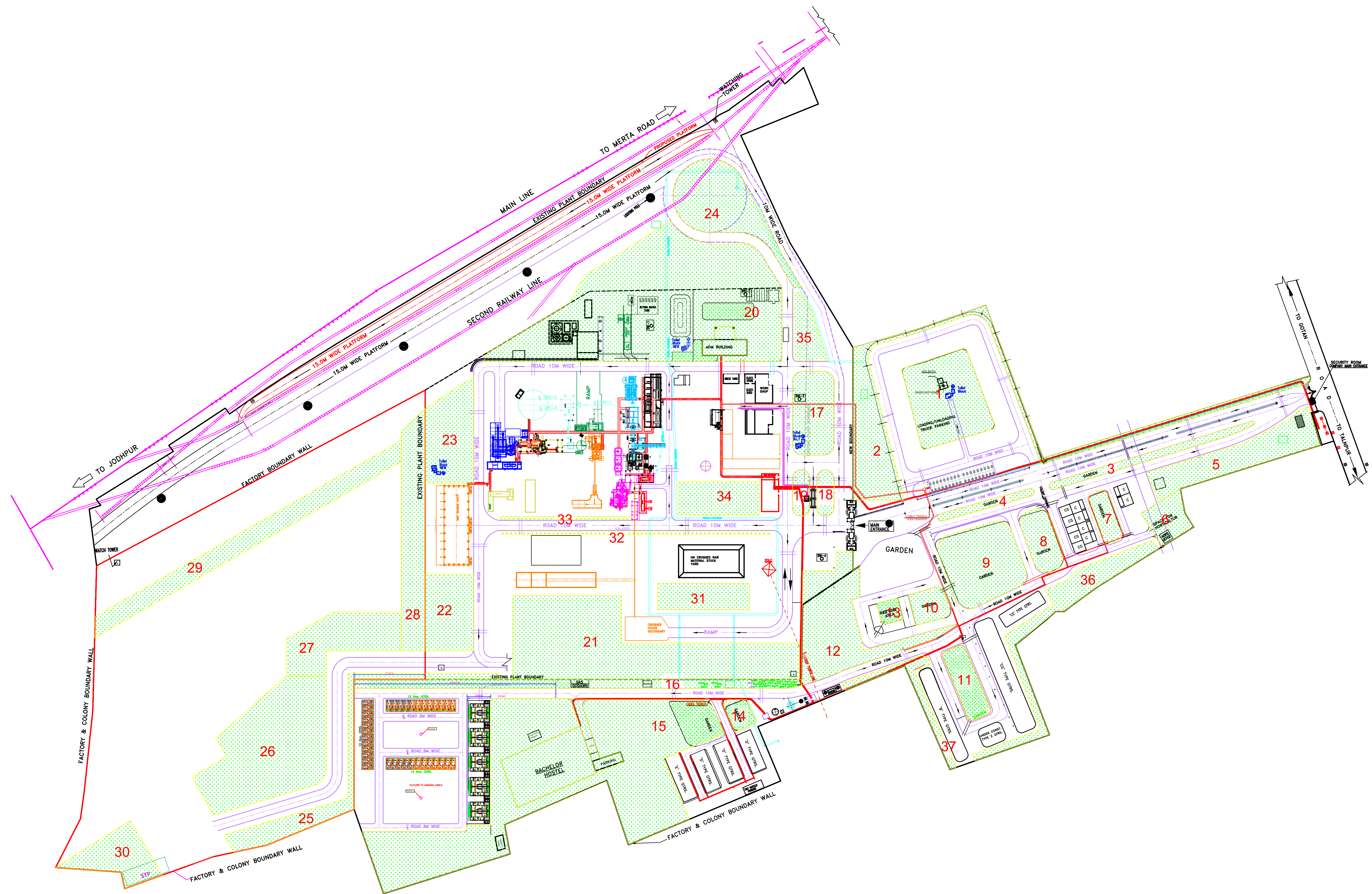
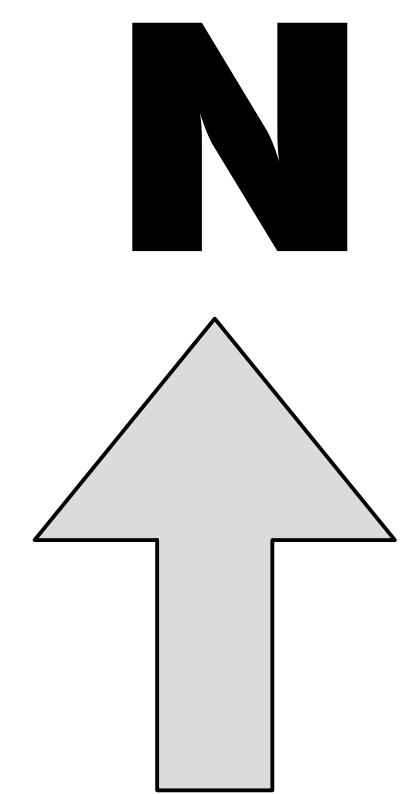
Encl.: Annexure- 1 to 3

Cc: Central Pollution Control Board  
Reg. A/d Parivesh Bhawan, East Arjun Nagar, Shahdara, New Delhi – 110 032

Cc: Rajasthan State Pollution Control Board  
Reg. A/d 4, Institutional Area, Jhalana Dungri, Jaipur (Raj.) – 302 004

Cc: Rajasthan State Pollution Control Board  
Reg./Ad SPL-2, Phase-V- RIICO Ind. Area, Kishangarh (Rajasthan)-305801





EXISTING PLANTATION

REV.	DESCRIPTION	DATE	DRN.	CHD.
REVISIONS				

ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE SPECIFIED		DRAWN	ARADHYA S.
TITLE JK CEMENT FACTORY EXISTING PLANTATION LAYOUT		DATE	06.11.2017
		CHECKED	DR. R.K.V.
		APPROVED	
		SCALE	1:2000
REF. No.:-	DRG.NO.:-JKC-GEN-E-1199	Rev.:-	1
J.K. Cement Works (A Unit Of J.K Cement LTD.) P.O.- GOTAN NAGPUR (RAJ.)			

ACAD FILE:-

LOCATION





Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/A/2003050010

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/A/2003050010

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 20/03/2020

Period of Analysis : 06/03/2020-20/03/2020

Receipt Date : 05/03/2020

Sample Description : AMBIENT AIR

### General Information

Sampling Location : Front of Pump House  
Sample Collected by : VARDAN ENVIROLAB TEAM  
Sampling Equipment used : RDS,FPS  
Instrument Code : VEL/RDS/02 & FPS/02  
Instrument Calibration Status : Calibrated  
Latitude : --  
Longitude : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 27/02/2020 To 28/02/2020  
Time of Monitoring : 15:45 to 15:45 Hrs.  
Ambient Temperature (°C) : Min. 17 Max 32  
Surrounding Activity : Human,Vehicular & Plant Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	75.11	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS: 5182 (P-24), 2019	36.0475	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2006	15.30	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	8.38	µg/m³	80
5	#Carbon Monoxide (as CO)	IS:5182 (P-10) Gas Chromatography, RA:2003	0.53	mg/m³	4.0
6	Benzene (as C6H6)	IS:5182 (P-11) :2004	*BDL(**DL-2.0 µg/m3)	µg/m³	5.0
7	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	4.30	µg/m³	400.0
8	Ozone (as O3)	IS:5182 (P-9), Colorimetric Method, RA:2003	12.20	µg/m³	180.0
9	Lead (as Pb)	IS:5182 (P-22),Air Acetylene Method, RA:2009	*BDL(**DL-0.02 µg/m3)	µg/m³	1.0
10	Arsenic (as As)	Methods of air sampling and	*BDL(**DL-1.0 ng/m³)	ng/m³	6.0

Note: a) The results listed refer only to the tested samples & applicable parameters  
b) Total liabilities of our lab will be restricted to the invoice amount only  
c) The Sample will be destroyed after retention time unless otherwise specified  
d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law







Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/A/2003050010

Report No. : VEL/A/2003050010

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
10		analysis, 3rd ed., 1988, Method No.302	ng/m <sup>3</sup>		
11	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	*BDL(**DL-5.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	20.0
12	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004	*BDL(**DL-0.5 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	1.0

#Not covered in NABL Scope

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

(Tested By)



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# Vardan EnviroLab



Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/A/2003050011

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/A/2003050011

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 11/03/2020

Period of Analysis : 06/03/2020-11/03/2020

Receipt Date : 05/03/2020

Sample Description : AMBIENT AIR

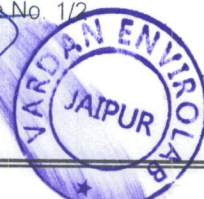
### General Information

Sampling Location : Front of Weigh Bridge  
Sample Collected by : VARDAN ENVIROLAB TEAM  
Sampling Equipment used : RDS,FPS  
Instrument Code : VEL/RDS/02 & FPS/02  
Instrument Calibration Status : Calibrated  
Latitude : - -  
Longitude : - -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/02/2020 To 29/02/2020  
Time of Monitoring : 16:00 to 16:00 Hrs.  
Ambient Temperature (°C) : Min. 17 Max 32  
Surrounding Activity : Human, Vehicular & Plant Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	76.26	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS: 5182 (P-24), 2019	37.88	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2006	17.19	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	11.05	µg/m³	80
5	#Carbon Monoxide (as CO)	IS:5182 (P-10) Gas Chromatography, RA:2003	0.81	mg/m³	4.0
6	Benzene (as C6H6)	IS:5182 (P-11) :2004	BDL (*DL 1.0 µg/m³)	µg/m³	5.0
7	Ammonia (as NH3)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 401	9.17	µg/m³	400.0
8	Ozone (as O3)	IS:5182 (P-9), Colorimetric Method, RA:2003	17.44	µg/m³	180.0
9	Lead (as Pb)	IS:5182 (P-22), Air Acetylene Method, RA:2009	0.14	µg/m³	1.0
10	Arsenic (as As)	Methods of air sampling and	BDL (*DL 1.0	ng/m³	6.0

Note: a) The results listed refer only to the tested samples & applicable parameters  
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# Vardan EnviroLab



Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001)

## Test Certificate

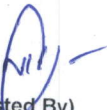
Sample Number : VEL/A/2003050011

Report No. : VEL/A/2003050011

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
10		analysis, 3rd ed., 1988, Method No.302	ng/m <sup>3</sup>		
11	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	BDL (*DL 5.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	20.0
12	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004	BDL (*DL 0.5 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	1.0

#Not covered in NABL Scope

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

  
(Tested By)



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Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/A/2003050012

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/A/2003050012

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 11/03/2020

Period of Analysis : 06/03/2020-11/03/2020

Receipt Date : 05/03/2020

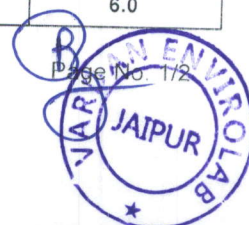
Sample Description : AMBIENT AIR

### General Information

Sampling Location : Front Of Crusher MCC Room  
Sample Collected by : VARDAN ENVIROLAB TEAM  
Sampling Equipment used : RDS, FPS  
Instrument Code : VEL/RDS/03 & FPS/03  
Instrument Calibration Status : Calibrated  
Latitude : --  
Longitude : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/02/2020 To 29/02/2020  
Time of Monitoring : 13:00 to 14:00 Hrs.  
Ambient Temperature (°C) : Min. 17 Max 32  
Surrounding Activity : Human, Vehicular & Plant Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	73.73	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS: 5182 (P-24), 2019	35.67	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2006	18.54	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	8.91	µg/m³	80
5	#Carbon Monoxide (as CO)	IS:5182 (P-10) Gas Chromatography, RA:2003	0.54	mg/m³	4.0
6	Benzene (as C6H6)	IS:5182 (P-11) :2004	BDL (*DL1.0 µg/m³)	µg/m³	5.0
7	Ammonia (as NH3)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 401	BDL (*DL 2.0 µg/m³)	µg/m³	400.0
8	Ozone (as O3)	IS:5182 (P-9), Colorimetric Method, RA:2003	13.95	µg/m³	180.0
9	Lead (as Pb)	IS:5182 (P-22), Air Acetylene Method, RA:2009	0.13	µg/m³	1.0
10	Arsenic (as As)	Methods of air sampling and	BDL (*DL1.0	ng/m³	6.0

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Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001)

## Test Certificate


Sample Number : VEL/A/2003050012

Report No. : VEL/A/2003050012

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
10		analysis, 3rd ed., 1988, Method No. 302	ng/m <sup>3</sup>		
11	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	BDL (*DL 5.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	20.0
12	Benzo (alpha) Pyrene-Particulate Phase Only	IS: 5182 (P-12): 2004	BDL (*DL 0.5 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	1.0

#Not Covered in NABL Scope

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

  
(Tested By)



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Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/A/2003050013

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/A/2003050013

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 11/03/2020

Period of Analysis : 06/03/2020-11/03/2020

Receipt Date : 05/03/2020

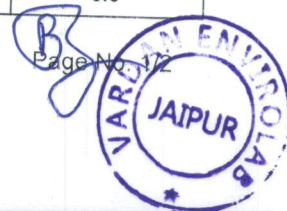
Sample Description : AMBIENT AIR

### General Information

Sampling Location : Bachelor Hostel  
Sample Collected by : VARDAN ENVIROLAB TEAM  
Sampling Equipment used : RDS, FPS  
Instrument Code : VEL/RDS/04 & FPS/04  
Instrument Calibration Status : Calibrated  
Latitude : --  
Longitude : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/02/2020 To 29/02/2020  
Time of Monitoring : 14:45 to 14:45 Hrs.  
Ambient Temperature (°C) : Min. 17 Max 32  
Surrounding Activity : Human, Vehicular & Plant Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	76.88	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS: 5182 (P-24), 2019	36.57	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2006	16.30	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	9.86	µg/m³	80
5	#Carbon Monoxide (as CO)	IS:5182 (P-10) Gas Chromatography, RA:2003	0.71	mg/m³	4.0
6	Benzene (as C6H6)	IS:5182 (P-11) :2004	BDL (*DL1.0 µg/m³)	µg/m³	5.0
7	Ammonia (as NH3)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 401	5.79	µg/m³	400.0
8	Ozone (as O3)	IS:5182 (P-9), Colorimetric Method, RA:2003	13.08	µg/m³	180.0
9	Lead (as Pb)	IS:5182 (P-22), Air Acetylene Method, RA:2009	BDL (*DL1.0 µg/m³)	µg/m³	1.0
10	Arsenic (as As)	Methods of air sampling and	BDL (*DL1.0 ng/m³)	ng/m³	6.0

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Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/A/2003050013

Report No. : VEL/A/2003050013

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
10		analysis, 3rd ed., 1988, Method No.302	ng/m <sup>3</sup>		
11	Nickel (as Ni)	USEPA compendium IO-3.2, 1999	BDL (*DL 5.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	20.0
12	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004	BDL (*DL 0.5 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	1.0

#Not covered in NABL Scope

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

(Tested By)



(Approved By)

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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/N/2003050014

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/N/2003050014

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 12/03/2020

Receipt Date : 05/03/2020

Sampling Duration : 24 Hrs.

Sample Collected by : VARDAN ENVIROLAB TEAM

Instrument : Calibrated

Calibration Status

Sample Description : Ambient Noise  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989; IS 9876  
Instrument Used : Sound Level Meter

### General Information

Sampling Location

Instrument Code

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Ambient Temperature (°C)

Surrounding Activity

Parameter Required

: Front Of Pump House  
: VEL/SLM/05  
: Clear Sky  
: 27/02/2020 To 28/02/2020  
: 6.00 to 6.00 Hrs.  
: Min. 17° Max 31°  
: Human & Vehicular Activities  
: As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	78.0	69.5
2	L min	IS: 9989-1981, IS 9876: 1981	54.1	44.8
3	Leq	IS: 9989-1981, IS 9876: 1981	65.56	58.54

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM

3. Silence Zone is defined as an area up to 100m around premises of Hospitals, Educational Institutions and Courts. Use of vehicle horn, loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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

(Tested By)



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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035

Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051

MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/N/2003050015

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/N/2003050015

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 12/03/2020

Receipt Date : 05/03/2020

Sampling Duration : 24 Hrs.

Sample Collected by : VARDAN ENVIROLAB TEAM

Instrument : Calibrated

Calibration Status

Sample Description : Ambient Noise  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989; IS 9876  
Instrument Used : Sound Level Meter

### General Information

Sampling Location : Front Of Weigh Bridge  
Instrument Code : VEL/SLM/01  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/02/2020 To 29/02/2020  
Time of Monitoring : 6.00 to 6.00 Hrs.  
Ambient Temperature (°C) : Min. 17° Max 32°  
Surrounding Activity : Human & Vehicular Activities  
Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	66.9	59.7
2	L min	IS: 9989-1981, IS 9876: 1981	42.3	37.6
3	Leq	IS: 9989-1981, IS 9876: 1981	63.82	50.0

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

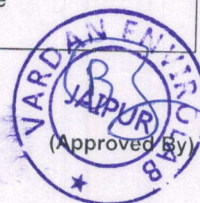
2. Night Time is reckoned between 10.00 PM to 6.00 AM

3. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions and Courts. Use of vehicle horn, loudspeaker and bursting of crackers is banned in these zones.

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

(Tested By)



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# Vardan Envirolab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised **ISO 9001** | OHSAS 45001

## Test Certificate

Sample Number : VEL/N/2003050016

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/N/2003050016

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 12/03/2020

Receipt Date : 05/03/2020

Sampling Duration : 24 Hrs.

Sample Collected by : VARDAN ENVIROLAB TEAM

Instrument : Calibrated

Calibration Status

Sample Description : Ambient Noise  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989; IS 9876  
Instrument Used : Sound Level Meter

### General Information

Sampling Location : Front Of Crusher MCC Room  
Instrument Code : VEL/SLM/02  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/02/2020 To 29/02/2020  
Time of Monitoring : 6.00 to 6.00 Hrs.  
Ambient Temperature (°C) : Min. 17° Max 32°  
Surrounding Activity : Human & Vehicular Activities  
Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	65.8	60.5
2	L min	IS: 9989-1981, IS 9876: 1981	48.1	45.6
3	Leq	IS: 9989-1981, IS 9876: 1981	63.55	56.43

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM

3. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions and Courts. Use of vehicle horn, loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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

(Tested By)

(Approved By)

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# Vardan Envirolab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised **ISO 9001 | OHSAS 45001**

## Test Certificate

Sample Number : VEL/N/2003050017

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/N/2003050017

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 12/03/2020

Receipt Date : 05/03/2020

Sampling Duration : 24 Hrs.

Sample Collected by : VARDAN ENVIROLAB TEAM

Instrument Calibration Status : Calibrated

Sample Description : Ambient Noise  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989; IS 9876  
Instrument Used : Sound Level Meter

### General Information

Sampling Location : Bachelor Hostel  
Instrument Code : VEL/SLM/03  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/02/2020 To 29/02/2020  
Time of Monitoring : 6.00 to 6.00 Hrs.  
Ambient Temperature (°C) : Min. 17° Max 32°  
Surrounding Activity : Human & Vehicular Activities  
Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	63.1	57.1
2	L min	IS: 9989-1981, IS 9876: 1981	43.5	38.6
3	Leq	IS: 9989-1981, IS 9876: 1981	57.97	45.32

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
  2. Night Time is reckoned between 10.00 PM to 6.00 AM
  3. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions and Courts. Use of vehicle horn, loudspeaker and bursting of crackers is banned in these zones.
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\*\*\*End of Report\*\*\*

(Tested By)



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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised **ISO 9001 | OHSAS 45001**

## Test Certificate

Sample Number : VEL/S/2003050012

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/S/2003050012  
Format No : 7.8 F-01  
Party Reference No : NIL  
Reporting Date : 11/03/2020  
Period of Analysis : 05/03/2020-11/03/2020  
Receipt Date : 05/03/2020

### Sample Description

#### Stack Emission Monitoring

**General Information**  
Sampling Location : Crusher  
Sample Collected by : Vardan EnviroLab Team  
Date of Sampling : 29/02/2020  
Sampling duration (Minutes) : 38 Min(9.20 to 9.58)  
Stack attached to : Bag House  
Make of stack : --  
Diameter of stack(m) : 0.8 M  
Height of stack(m) : 30.0 M  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 27°C  
Temperature of Stack Gases - Ts (°C) : 33  
Velocity of Stack Gases (m/sec.) : 5.00  
Flow rate of PM (LPM) : 21.0  
Flow rate of Gas (LPM) : --  
Sampling condition : Isokinetic  
Protocol used : IS 11255 & EPA

S.No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS: 11255 (Part1) : 1985,RA 2014	13.07	mg/Nm3	38

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

(Tested By)

(Approved By)

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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised **ISO 9001 | OHSAS 45001**

## Test Certificate

Sample Number : VEL/S/2003050016

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/S/2003050016

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 11/03/2020

Period of Analysis : 05/03/2020-11/03/2020

Receipt Date : 05/03/2020

Sample Description : Stack Emission Monitoring

### General Information

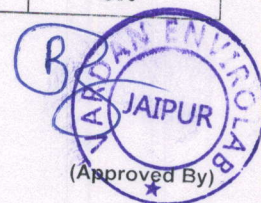
Sampling Location : Raw Mill & Kiln  
Sample Collected by : Vardan EnviroLab Team  
Date of Sampling : 01/03/2020  
Sampling duration (Minutes) : 28 Min(15.00 to 15.28)  
Stack attached to : ESP  
Make of stack : --  
Diameter of stack(m) : 1.4 M  
Height of stack(m) : 30.0 M  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 33°C  
Temperature of Stack Gases - Ts (°C) : 128  
Velocity of Stack Gases (m/sec.) : 11.20  
Flow rate of PM (LPM) : 36  
Flow rate of Gas (LPM) : 2  
Sampling condition : Isokinetic  
Protocol used : IS 11255 & EPA

S.No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS: 11255 (Part1) : 1985, RA 2014	23.99	mg/Nm3	30.0*
2	Sulphur Dioxide ( as SO <sub>2</sub> )	IS: 11255(Part 2): 1985, Reaffirmed 2014	14.71	mg/Nm3	100*
3	Carbon Monoxide ( as CO )	APHA III, 133 2016	21.13	mg/Nm3	Not Specified
4	Oxide of Nitrogen as NO <sub>2</sub>	IS-11255 P-7, RA 2017	334.42	mg/Nm3	800*

\*Limits as per MoEF Notification GSR-497(E), Dated:10/05/2016

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

(Tested By)



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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised **ISO 9001** | OHSAS 45001

## Test Certificate

Sample Number : VEL/S/2003050015

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/S/2003050015

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 11/03/2020

Period of Analysis : 05/03/2020-11/03/2020

Receipt Date : 05/03/2020

Sample Description : Stack Emission Monitoring

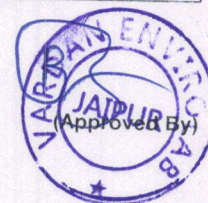
### General Information

Sampling Location : Grate Cooler  
Sample Collected by : Vardan EnviroLab Team  
Date of Sampling : 01/03/2020  
Sampling duration (Minutes) : 33 Min(18.00 TO 18.33)  
Stack attached to : ESP  
Make of stack : --  
Diameter of stack(m) : 5.2 M  
Height of stack(m) : 59.6 M  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 27°C  
Temperature of Stack Gases - Ts (°C) : 209  
Velocity of Stack Gases (m/sec.) : 8.9  
Flow rate of PM (LPM) : 23.5  
Flow rate of Gas (LPM) : --  
Sampling condition : Isokinetic  
Protocol used : IS 11255 & EPA

S.No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS: 11255 (Part1) : 1985,RA 2014	25.10	mg/Nm3	30

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

(Tested By)



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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/S/2003050013

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/S/2003050013

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 11/03/2020

Period of Analysis : 05/03/2020-11/03/2020

Receipt Date : 05/03/2020

Sample Description : Stack Emission Monitoring

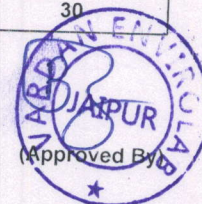
### General Information

Sampling Location : Pet Coke / Coal Mill  
Sample Collected by : Vardan EnviroLab Team  
Date of Sampling : 01/03/2020  
Sampling duration (Minutes) : 40 Min(12.10 to 12.50)  
Stack attached to : Bag House  
Make of stack : --  
Diameter of stack(m) : 0.9 M  
Height of stack(m) : 30.0 M  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 27°C  
Temperature of Stack Gases - Ts (°C) : 64  
Velocity of Stack Gases (m/sec.) : 12.07  
Flow rate of PM (LPM) : 20  
Flow rate of Gas (LPM) : --  
Sampling condition : Isokinetic  
Protocol used : IS 11255 & EPA

S.No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS: 11255 (Part1) : 1985, RA 2014	9.65	mg/Nm3	30

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

(Tested By)



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# Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001

## Test Certificate

Sample Number : VEL/S/2003050014

Name & Address of the Party : M/S JK Cement Works  
(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/S/2003050014  
Format No : 7.8 F-01  
Party Reference No : NIL  
Reporting Date : 11/03/2020  
Period of Analysis : 05/03/2020-11/03/2020  
Receipt Date : 05/03/2020

Sample Description : Stack Emission Monitoring

**General Information**  
Sampling Location : Cement Mill & Packing Plant  
Sample Collected by : Vardan EnviroLab Team  
Date of Sampling : 29/02/2020  
Sampling duration (Minutes) : 38 Min(10.30 to 11.08)  
Stack attached to : —  
Make of stack : —  
Diameter of stack(m) : 0.9 M  
Height of stack(m) : 30.0 M  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 28°C  
Temperature of Stack Gases - Ts (°C) : 38  
Velocity of Stack Gases (m/sec.) : 5.17  
Flow rate of PM (LPM) : 21.19  
Flow rate of Gas (LPM) : —  
Sampling condition : Isokinetic  
Protocol used : IS 11255 & EPA

S.No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1	Particulate Matter (as PM)	IS: 11255 (Part1) : 1985, RA 2014	14.03	mg/Nm3	30

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

(Tested By)

(Approved By)

**Note:** a) The results listed refer only to the tested samples & applicable parameters  
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Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised [ISO 9001 | OHSAS 45001]

## Test Certificate

Sample Number : VEL/WW/2003050010

Name & Address of the Party : M/S JK Cement Works

(Unit of JK Cement Ltd.) Vill. & PO. - Gotan Dist -  
Nagaur, Rajasthan

Report No. : VEL/WW/2003050010

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 11/03/2020

Period of Analysis : 05/03/2020-11/03/2020

Receipt Date : 05/03/2020

Sampling Date : 02/03/2020

Sampling Quantity : 2.0 Ltr.

Sampling Type : Grab

Sample Description : Waste Water

Location : STP Water (300 KLD)

Sample Collected by : Vardan EnviroLab Team

Preservation : 25 DEGREE

Parameter Required : As Per Work Order

Analysis Protocol : IS 3025

S.No.	Test Parameters	Test Method	Result	Unit	Standards		
					Inland Surface Water	Public Sewers	Land for irrigation
1	pH	IS 3025 (P-11): 1983 Reaff. 2017	7.52	-	5.5 - 9.0	5.5 - 9.0	5.5 - 9.0
2	Total Suspended Solids	IS: 3025 (Part 17): 1984, Reaff. 2017	24.00	mg/l	100.0	600.0	200.0
3	Temperature	IS-3025 (Part-9): 1984, Ref: 2017	25.8	°C	Shall not exceed 5°C above the receiving water temperature	--	--
4	Oil & Grease	IS 3025(P-39):1991 RA 2019	1.00	mg/l	10.0	20.0	10.0
5	Residual Chlorine	IS 3025(P-26): 1986 Reaff.2019	*BDL(**DL-0.2)	mg/l	1.0	--	--
6	Ammonical Nitrogen (as NH <sub>3</sub> -N)	IS-3025 (Part-34)- 1988, Ref: 2019	17.09	mg/l	50.0	50.0	--
7	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	IS: 3025 (Part 34): 1988, Reaff. 2019 (Chromotropic Method)	24.27	mg/l	100.0	--	--
8	BOD (3 days @ 27°C )	IS: 3025 (Part-44): 1993, Ref: 2019	27.00	mg/l	30.0	350.0	100.0
9	COD	IS : 3025 (Part 58) : 2006 Ref: 2017	237.79	mg/l	250.0	--	--
10	Chloride	IS: 3025 (Part 32): 1988, Reaff. 2019	825.13	mg/l	--	--	--
11	Sulphide (as S)	IS: 3025 (Part 24): 1986, Reaff. 2019 Turbidity Method	0.18	mg/l	--	--	--
12	Fecal Coliform	IS 1622:2009	36	MPN/100ml	Shall not be detectable in any 100 ml sample	--	--

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# Vardan EnviroLab



Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035  
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051  
MoEF & CC Recognised | ISO 9001 | OHSAS 45001)

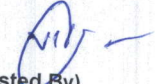
## Test Certificate

Sample Number : VEL/WW/2003050010

Report No.

: VEL/WW/2003050010

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

  
(Tested By)



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PLANT	ID	EMPL NAM	DV/L	DV/R	NV/L	NV/R	HT (IN CMS)	WT (IN KG)	B/G	ECG	CARDIAC MONITORING	AUDIOMETRY	SPIROMETRY
JKC	A0920	ANIRUDH BHAN OJHA	6/6	6/6	N-6	N-6	178	95	O-VE	-----	NORMAL	NORMAL	NORMAL
JKC	A0930	ASHOK KUMAR CHHAPARWAL	6/6	6/6	N-6	N-6	171	90	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	A1040	ADITYA KUMAR	6/6	6/6	N-6	N-6	175	77.7	AB-VE	-----	NORMAL	ML LE	MILD REST
JKC	A1090	ACHAL SINGH	6/6	6/6	N-6 C GLS	N-6 C GLS	161	56	B+VE	NORMAL	-----	ML RE	NORMAL
JKC	A1110	ANAND KUMAR SONI	6/6	6/6	N-6 C GLS	N-6 C GLS	177	77.5	O+VE	NORMAL	-----	ML LE	NORMAL
JKC	A1220	ANDHAN KUMAR	6/6	6/6	N-6	N-6	176	87.3	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	A1240	ANIL KUMAR	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	166	78.9	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	A1380	ASHUTOSH MOHAN SHARMA	6/6	6/6	N-6	N-6	184	84.4	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	A1480	ANKIT AGARWAL	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	173	63	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	A1570	ABID RAZA ALI	6/6	6/6	N-6	N-6	170	88.7	AB+VE	NORMAL	-----	ML BE	NORMAL
JKC	B0650	BRIJESH KUMAR GODHA	6/6 C GLS	6/6 C GLS	N-6	N-6	184	104	O+VE	-----	NORMAL	ML RE	MILD REST
JKC	B0720	BHANWAR PURI	6/6	6/6	N-6 C GLS	N-6 C GLS	172	62.5	B+VE	NORMAL	-----	ML LE	NORMAL
JKC	B0760	BHAWANI LAL DHAKER	6/6	6/6	N-6	N-6	171	70	AB+VE	-----	NORMAL	NORMAL	NORMAL
JKC	B0780	BHUPENDRA PRASAD SHARMA	6/6	6/6	N-6	N-6	164	66	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	B0900	BAL MUKUND SEN	6/6	6/6	N-6	N-6	166	91	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	B0950	BHERU LAL DANGI	6/9	6/6	N-6	N-6	163.5	56.5	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	D0600	DEEPAK GANDHI	6/6	6/6	N-6	N-6	172	71.5	O+VE	NORMAL	-----	ML BE	NORMAL
JKC	D0610	DINESH KUMAR JANGID	6/6	6/6	N-6	N-6	171	88	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	D0630	DHARMAJ CHOUHAN	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	167	81	O-VE	NORMAL	-----	NORMAL	NORMAL
JKC	D0680	DEEPAK DEORA	6/6	6/6	N-6	N-6	175	79	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	D0700	DILEEP SINGH	6/6	6/6	N-6 C GLS	N-6 C GLS	168	77	AB+VE	NORMAL	-----	NORMAL	MILD REST
JKC	D0720	DASHRATH SINGH	6/9 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	160	70	B+VE	NORMAL	-----	NORMAL	NORMAL
JKC	D0770	DHARMESH SHARMA	6/6	6/6	N-6	N-6	165	64	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	D0840	DALIP SHARMA	6/6	6/6	N-6	N-6	168	71	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	D0860	DILIP BHARADIYA	6/6	6/6	N-6	N-6	172.5	92	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	F0030	FEP SINGH	6/6	6/6	N-6 C GLS	N-6 C GLS	181	70	A+VE	NORMAL	-----	NORMAL	NORMAL
JKC	G0370	GANPAT SINGH BHATI	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	168	68	A+VE	NORMAL	-----	ML BE	NORMAL
JKC	G0420	GOVIND SHARMA	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	172	84	O+VE	NORMAL	-----	ML LE	NORMAL
JKC	G0440	GHEESA LAL SWAMI	6/6	6/6	N-6 C GLS	N-6 C GLS	168	77	B+VE	NORMAL	-----	ML LE	NORMAL
JKC	G0510	GOPAL LAL SHARMA	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	172	69	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	H0300	HARI SINGH	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	173	64	O+VE	NORMAL	-----	ML LE	NORMAL
JKC	H0370	HEMANT PAREEK	6/6	6/6	N-6	N-6	173	68.7	O+VE	-----	NORMAL	NORMAL	MILD REST
JKC	I0030	INDAR SINGH RAO	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	176	68.5	O+VE	NORMAL	-----	ML LE	NORMAL
JKC	J0210	JASDEV SINGH RATHORE	6/6	6/6	N-6	N-6	166	84	A-VE	-----	NORMAL	ML BE	NORMAL
JKC	J0240	JAGDISH CHAND SHARMA	6/6	6/6	N-6 C GLS	N-6 C GLS	170	60	B+VE	NORMAL	-----	NORMAL	NORMAL
JKC	J0380	JITENDRA PALIWAL	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	165	64	A +VE	-----	NORMAL	NORMAL	NORMAL
JKC	K0450	KISHORE SINGH	6/6	6/6	N-6	N-6	171	64.6	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	K0470	KHUSHAL ASERI	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	171	95.9	A+VE	-----	NORMAL	NORMAL	MILD REST
JKC	K0480	KEDAR MAL KURMI	6/6	6/6	N-6	N-6	180	102	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	K0520	KAILASH CHAND SIKHWAL	6/9	6/9	N-8 C GLS	N-8 C GLS	174	80	B+VE	NORMAL	-----	ML BE	NORMAL
JKC	K0530	KALU RAM SHARMA	6/9 C GLS	6/9 C GLS	N-8 C GLS	N-8 C GLS	178	66.5	O+VE	NORMAL	-----	ML BE	NORMAL
JKC	K0580	KULDEEP SINGH	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	177	93	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	K0710	KAMLESH CHOUDHARY	6/6	6/6	N-6	N-6	171	84.7	A-VE	-----	NORMAL	ML LE	NORMAL
JKC	M0070	MANISH JAIN	6/6	6/6	N-6	N-6	170	65	B+VE	-----	NORMAL	ML RE	NORMAL
JKC	M0930	MOHAN LAL SARAN	6/6 C GLS	6/9 C GLS	N-6 C GLS	N-6 C GLS	171	72	O+VE	NORMAL	-----	NORMAL	NORMAL
JKC	M0950	MOHAN RAM JANGID	6/9 C GLS	6/9 C GLS	N-6 C GLS	N-6 C GLS	165	60	O+VE	NORMAL	-----	ML LE	MILD REST
JKC	M1140	MADAN SINGH	6/9	6/9	N-6	N-6	158	63	B+VE	NORMAL	-----	ML LE	MILD REST
JKC	M1180	MUKESH KUSHWAHA	6/6 C GLS	6/6 C GLS	N-6	N-6	160	44.7	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	M1260	MAHAVIR GUSAI	6/6	6/6	N-8	N-8	160.5	52	O+VE	NORMAL	-----	NORMAL	NORMAL
JKC	M1280	MOHIT TIWARI	6/6	6/6	N-6	N-6	178	72	B-VE	-----	NORMAL	NORMAL	NORMAL
JKC	N0340	NIRANJAN JAIN	6/6 C GLS	6/6 C GLS	N-6	N-6	162	51	AB+VE	NORMAL	-----	NORMAL	NORMAL
JKC	N0370	NARENDRA SINGH SISODIA	6/6	6/6	N-6 C GLS	N-6 C GLS	172	78	O+VE	NORMAL	-----	ML BE	NORMAL
JKC	N0380	NARESH KUMAR RATHI	6/6	6/6	N-6	N-6	182	88	O-VE	-----	NORMAL	ML BE	MILD REST
JKC	O0150	OM PRAKASH JAISWAL	6/6 C GLS	6/9 C GLS	N-6	N-6	170	77	B+VE	-----	NORMAL	ML LE	NORMAL
JKC	P0670	PRADEEP MUNDEL	6/6	6/6	N-6	N-6	184	70	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	P0720	PRAKASH KUMAR SAINI	6/6	6/6	N-6	N-6	172	70	AB+VE	-----	NORMAL	NORMAL	NORMAL
JKC	P0740	PANKAJ BHANDARI	6/6	6/6	N-6	N-6	182	95.5	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	P0790	PRADHAN SINGH CHAUHAN	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	171	88.5	O+VE	NORMAL	-----	ML LE	NORMAL
JKC	P0820	PRAHLAD RAM GODARA	6/6	6/6	N-8	N-8	173	63	O+VE	NORMAL	-----	ML BE	MILD REST
JKC	P0940	PANKAJ GOUTAM	6/6	6/6	N-6	N-6	180	81.5	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	P0980	PARMESHWAR LAL	6/6	6/6	N-6	N-6	176	70	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	R1290	ROHIT PANPALIA	6/6	6/6	N-6	N-6	167	78.7	B+VE	-----	NORMAL	ML BE	NORMAL
JKC	R1340	RAMESH CHAND SHARMA	6/6	6/6	N-6 C GLS	N-6 C GLS	154	47	O+VE	NORMAL	-----	ML BE	NORMAL
JKC	R1350	RAJESH KUMAR RATHORE	6/6 C GLS	6/6 C GLS	N-6	N-6	184	79.5	O+VE	NORMAL	-----	NORMAL	NORMAL
JKC	R1360	RAJEEV RAI	6/6	6/6	N-6	N-6	160	54	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	R1440	RAM RAJ BEDA	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	170	75	B+VE	-----	NORMAL	NORMAL	MILD REST
JKC	R1450	Dr. RANJEET KUMAR BAGARIYA	6/6	6/6	N-6	N-6	183	85	B-VE	-----	NORMAL	NORMAL	NORMAL
JKC	R1460	RAHUL DWIVEDI	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	176	77	A+VE	NORMAL	-----	NORMAL	MILD REST
JKC	R1490	RISHIRAJ AAROLIYA	6/6	6/6	N-6	N-6	178	96.8	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	R1600	RAHUL AGARWAL	6/6	6/6	N-6	N-6	159	74.5	B+VE	-----	NORMAL	ML LE	NORMAL
JKC	R1610	RAM LAL PRAJAPAT S/O KALU RAM	6/9 C GLS	6/9 C GLS	N-6 C GLS	N-6 C GLS	171	83	B+VE	NORMAL	-----	ML RE	NORMAL
JKC	R1620	REKHA RAM PRAJAPAT	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	168	98.5	O+VE	NORMAL	-----	ML LE	NORMAL
JKC	R1640	RAMESHWAR LAL SAIN	6/9	6/9	N-6 C GLS	N-6 C GLS	160	58	O+VE	NORMAL	-----	NORMAL	NORMAL
JKC	R1650	RANU SIGNH	6/6	6/6	N-6 C GLS	N-6 C GLS	175	65.5	O+VE	NORMAL	-----	NORMAL	MILD REST
JKC	R1660	RAM JEEVAN CHOUDHARY	6/9 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	173	67	A+VE	NORMAL	-----	ML BE	MILD REST
JKC	R1670	RAGHUVEER SINGH SEKHAWAT	6/6	6/6	N-6 C GLS	N-6 C GLS	169	83	AB+VE	NORMAL	-----	NORMAL	NORMAL
JKC	R1680	RAM LAL PRAJAPAT S/O ROOP RAM	6/6	6/6	N-6 C GLS	N-6 C GLS	178	93.5	B+VE	NORMAL	-----	ML BE	MILD REST
JKC	R1710	RAM NIWAS CHAUDHARY	6/6 C GLS	6/9 C GLS	N-6 C GLS	N-6 C GLS	173	83	B+VE	NORMAL	-----	ML BE	MILD REST
JKC	R1860	RAM LAL PRAJAPAT S/O PHOOLA	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	162	83.5	O+VE	NORMAL	-----	ML BE	NORMAL
JKC	R1880	RAM AVATAR PRAJAPAT	6/6	6/6	N-6	N-6	172.5	81	O+VE	-----	NORMAL	ML BE	NORMAL
JKC	R1890	RAMESH KUMAR	6/6	6/6	N-6	N-6	179	86	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	R1900	RAJ KUMAR KRIPLANI	6/6 C GLS	6/6 C GLS	N-8 C GLS	N-8 C GLS	156	70	B+VE	NORMAL	-----	ML BE	MILD REST
JKC	R1910	RAVI KHADELWAL	6/6	6/6	N-6	N-6	163	64.5	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	R2020	ROHIT SINGH RATHORE	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	171	64.5	A+VE	-----	NORMAL	NORMAL	MILD REST
JKC	R2060	RAKESH KUMAR ARYA	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	167	70	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S2190	SANJEEV KUMAR SHARMA	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	175	85	B+VE	-----	NORMAL	ML BE	NORMAL
JKC	S2220	SANJEEV MUNDEL	6/6	6/6	N-6	N-6	176	72	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S2230	SANJAY MUWAL	6/6 C GLS	6/6 C GLS	N-6	N-6	182	72	AB+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S2320	SAHDEV SINGH RATHORE	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	178	86.5	O+VE	-----	NORMAL	NORMAL	MILD REST
JKC	S2420	SAWAN KUMAR BENIWAL	6/6	6/6	N-6	N-6	169	60	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S2530	SANJAY KUMAR SHARMA	6/6	6/6	N-6	N-6	180	74.5	A+VE	-----	NORMAL	ML BE	NORMAL
JKC	S2550	SURENDRA SONI	6/6	6/6	N-6	N-6	178	62	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S2680	SANJAY KUMAR CHOUDHARY	6/6	6/6	N-6	N-6	181	75	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S2700	SUDHIR KUMAR LIMBA	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	164	58.5	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S2720	SAURABH KATIYAR	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	170	90.8	O+VE	-----	NORMAL	ML BE	NORMAL
JKC	S2770	SHUBHAM SRIVASTAVA	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	178	107.5	B+VE	NORMAL	-----	NORMAL	MILD REST
JKC	S2820	SANJAY KUMAR DUBE	6/6	6/9	N-6	N-6	178	82	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S3020	SURENDER SINGH SHAKTAWAT	6/6	6/6	N-6	N-6	182	78	A-VE	-----	NORMAL	NORMAL	NORMAL
JKC	S3070	SHAITAN SINGH RAJPUT	6/6	6/6	N-6	N-6	171.5	77	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	S3080	SUDHIR KUMAR	6/6	6/6	N-6	N-6	172	70	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	T0160	TEJA RAM DEVASI	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	166	67.8	A-VE	-----	NORMAL	NORMAL	MILD REST
JKC	T0170	TARUN KUMAR CHHIPA	6/6	6/6	N-6	N-6	176	76	A+VE	-----	NORMAL	NORMAL	NORMAL
JKC	U0170	UMA SHANKAR MEHTA	6/9 C GLS	6/9 C GLS	N-6 C GLS	N-6 C GLS	164	65	B+VE	-----	NORMAL	NORMAL	NORMAL
JKC	V0540	VISHAL AVASTHI	6/6 C GLS	6/6 C GLS	N-6 C GLS	N-6 C GLS	166	63.5	O+VE	-----	NORMAL	NORMAL	NORMAL
JKC	V0570	VIKAS PALIWAL	6/6	6/6	N-6	N-6	175	75.7	B+VE	-----	NORMAL	NORMAL	NORMAL