

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

Reg. A/d & Mail

JKC/ENV/13 A/

Date: 30.03.2020

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 1st July, 2019 to 31st December, 2019) 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 ³ . 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. About 12410 Nos. of trees have been planted up to 31 st December'2019 Annexure-I |
| 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 ₂ , NO _x) 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 ₁₀ , PM _{2.5} , SO ₂ , NO _x & 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. Recognized Lab Monitoring reports Attached: Annexure-2 |
| 5. | The company shall undertake following Waste Minimization measures. ➤ Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. ➤ Use of "Close pneumatic" system for transport of fine material. ➤ All Venting systems shall be connected with dust arresting equipments. ➤ Dust collect in pollution control equipments shall be reused. | 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: Annexure-2 |
| 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. Annexure:-3 |
| 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 | Environmental Management cell has been setup. The Unit |



| | | |
|-----|--|---|
| | full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. | 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 http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local 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**

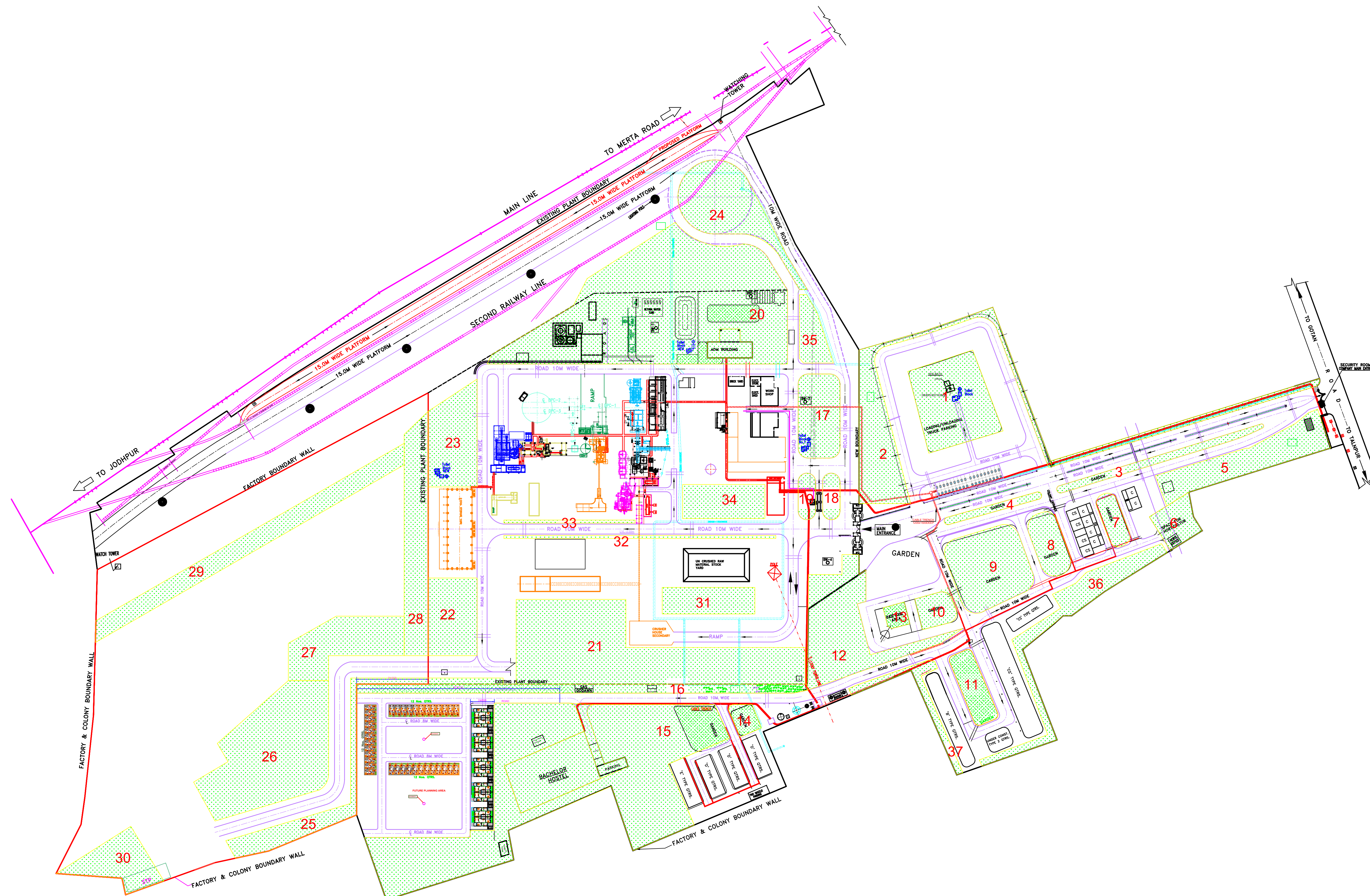
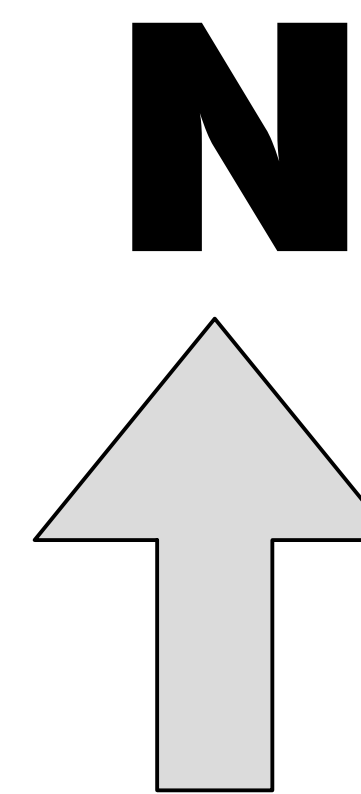
Dr. Ranjeet Kumar Bagariya
Head- Environment

Encl.: Annexure- 1 to 3 (Page 1 to 20)

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



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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/A/1910240005

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/1910240005

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 02/11/2019

Period of Analysis : 24/10/2019-02/11/2019

Receipt Date : 24/10/2019

Sample Description : AMBIENT AIR

General Information

Sampling Location

: Front Of Pump House

Sample Collected by

: VARDAN ENVIROLAB TEAM

Sampling Equipment used

: RDS, EPS

Instrument Code

: VEL/RDS/01 & FPS/01

Instrument Calibration Status

: Calibrated

Meteorological condition during monitoring

: Clear Sky

Date of Monitoring

: 21/10/2019 To 22/10/2019

Time of Monitoring

: 10.30 to 10.30 Hrs.

Ambient Temperature (°C)

: Min. 20 Max 30

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 | 78.91 | µg/m³ | 100 |
| 2 | Particulate Matter (as PM - 2.5) | CPCB Guideline (Vol-I, May,2011) | 37.50 | µg/m³ | 60 |
| 3 | Nitrogen Dioxides (as NO2) | IS:5182 (P-6), Jacob & Hochheiser, RA:2006 | 16.99 | µg/m³ | 80 |
| 4 | Sulphur Dioxide (as SO2) | IS:5182 (P-2), Modified West and Gaeke, RA:2012 | 8.60 | µg/m³ | 80 |
| 5 | Carbon Monoxide (as CO) | IS:5182 (P-10) Gas Chromatography, RA:2003 | 0.56 | 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) | SOP, SP-207, Issue No.01, Based on CPCB Guidelines:2018 | 4.32 | µg/m³ | 400.0 |
| 8 | Ozone (as O3) | IS:5182 (P-9), Colorimetric Method, RA:2003 | 14.6 | 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) | IS:5182 (P-22) :2004 | *BDL(*DL- 1.0 ng/m³) | ng/m³ | 6.0 |
| 11 | Nickel (as Ni) | IS:5182 (P-22), Air Acetylene Method, | *BDL(*DL- 5.0 ng/m³) | ng/m³ | 20.0 |

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

(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/A/1910240005

Report No. : VEL/A/1910240005

| S.No. | Parameters | Test Method | Results | Units | Limit as per CPCB |
|-------|---|---------------------|-----------------------------------|-------------------|-------------------|
| 11 | | RA:2009 | ng/m ³ | | |
| 12 | Benzo (alpha) Pyrene-Particulate Phase Only | IS:5182 (P-12):2004 | *BDL(*DL- 0.5 ng/m ³) | ng/m ³ | 1.0 |

End of Report

(Tested By)

(Checked By)



- Note:**
- a) The results listed refer only to the tested samples & applicable parameters
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 - c) The Sample will be destroyed after retention time unless otherwise specified
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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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/A/1910240006

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/1910240006

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 02/11/2019

Period of Analysis : 24/10/2019-02/11/2019

Receipt Date : 24/10/2019

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

Meteorological condition during monitoring

: Clear Sky

Date of Monitoring

: 21/10/2019 To 22/10/2019

Time of Monitoring

: 11.00 to 11.00 Hrs.

Ambient Temperature (°C)

: Min. 19 Max 29

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 | 78.57 | µg/m³ | 100 |
| 2 | Particulate Matter (as PM - 2.5) | CPCB Guideline (Vol-I, May,2011) | 39.20 | µg/m³ | 60 |
| 3 | Nitrogen Dioxides (as NO2) | IS:5182 (P-6), Jacob & Hochheiser, RA:2006 | 18.30 | µg/m³ | 80 |
| 4 | Sulphur Dioxide (as SO2) | IS:5182 (P-2), Modified West and Gaeke, RA:2012 | 10.8 | µg/m³ | 80 |
| 5 | Carbon Monoxide (as CO) | IS:5182 (P-10) Gas Chromatography, RA:2003 | 0.74 | 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) | SOP, SP-207, Issue No.01, Based on CPCB Guidelines:2018 | 9.70 | µg/m³ | 400.0 |
| 8 | Ozone (as O3) | IS:5182 (P-9), Colorimetric Method, RA:2003 | 17.85 | µg/m³ | 180.0 |
| 9 | Lead (as Pb) | IS:5182 (P-22),Air Acetylene Method, RA:2009 | 0.16 | µg/m³ | 1.0 |
| 10 | Arsenic (as As) | IS:5182 (P-22) :2004 | *BDL(*DL- 1.0 ng/m³) | ng/m³ | 6.0 |
| 11 | Nickel (as Ni) | IS:5182 (P-22),Air Acetylene Method, | *BDL(*DL- 5.0 ng/m³) | ng/m³ | 20.0 |

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



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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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/A/1910240006

Report No. : VEL/A/1910240006

| S.No. | Parameters | Test Method | Results | Units | Limit as per CPCB |
|-------|---|---------------------|-----------------------------------|-------------------|-------------------|
| 11 | | RA:2009 | ng/m ³ | | |
| 12 | Benzo (alpha) Pyrene-Particulate Phase Only | IS:5182 (P-12):2004 | *BDL(*DL- 0.5 ng/m ³) | ng/m ³ | 1.0 |

End of Report

(Tested By)

(Checked By)

(Approved By)

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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/A/1910240007

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/1910240007

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 02/11/2019

Period of Analysis : 24/10/2019-02/11/2019

Receipt Date : 24/10/2019

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

Meteorological condition during monitoring

: Clear Sky

Date of Monitoring

: 21/10/2019 To 22/10/2019

Time of Monitoring

: 11.30 to 11.30 Hrs.

Ambient Temperature (°C)

: Min.21 Max 30

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 | 75.12 | µg/m³ | 100 |
| 2 | Particulate Matter (as PM - 2.5) | CPCB Guideline (Vol-I, May, 2011) | 37.84 | µg/m³ | 60 |
| 3 | Nitrogen Dioxides (as NO2) | IS:5182 (P-6), Jacob & Hochheiser, RA:2006 | 17.5 | µg/m³ | 80 |
| 4 | Sulphur Dioxide (as SO2) | IS:5182 (P-2), Modified West and Gaeke, RA:2012 | 8.21 | µg/m³ | 80 |
| 5 | Carbon Monoxide (as CO) | IS:5182 (P-10) Gas Chromatography, RA:2003 | 0.57 | 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) | SOP, SP-207, Issue No.01, Based on CPCB Guidelines:2018 | *BDL(*DL- 2.0 µg/m³) | µg/m³ | 400.0 |
| 8 | Ozone (as O3) | IS:5182 (P-9), Colorimetric Method, RA:2003 | 13.52 | µg/m³ | 180.0 |
| 9 | Lead (as Pb) | IS:5182 (P-22), Air Acetylene Method, RA:2003 | 0.12 | µg/m³ | 1.0 |
| 10 | Arsenic (as As) | IS:5182 (P-22), :2004 | *BDL(*DL- 1.0 ng/m³) | ng/m³ | 6.0 |
| 11 | Nickel (as Ni) | IS:5182 (P-22), Air Acetylene Method, | *BDL(*DL- 5.0 ng/m³) | ng/m³ | 20.0 |

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
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Page No. 1/2



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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/A/1910240007

Report No. : VEL/A/1910240007

| S.No. | Parameters | Test Method | Results | Units | Limit as per CPCB |
|-------|---|---------------------|-----------------------------------|-------------------|-------------------|
| 11 | | RA:2009 | ng/m ³ | | |
| 12 | Benzo (alpha) Pyrene-Particulate Phase Only | IS:5182 (P-12):2004 | *BDL(*DL- 0.5 ng/m ³) | ng/m ³ | 1.0 |

End of Report

(Tested By)

(Checked By)

(Approved By)

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
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Page No. 2/2



Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/A/1910240008

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/1910240008

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 02/11/2019

Period of Analysis : 24/10/2019-02/11/2019

Receipt Date : 24/10/2019

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

Meteorological condition during monitoring

: Clear Sky

Date of Monitoring

: 21/10/2019 To 22/10/2019

Time of Monitoring

: 12.30 to 12.30 Hrs.

Ambient Temperature (°C)

: Min.19 Max.29

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:2005 | 73.30 | µg/m³ | 100 |
| 2 | Particulate Matter (as PM - 2.5) | CPCB Guideline (Vol-I, May, 2011) | 34.78 | µg/m³ | 60 |
| 3 | Nitrogen Dioxides (as NO2) | IS:5182 (P-6), Jacob & Hochheiser, RA:2005 | 15.6 | µg/m³ | 80 |
| 4 | Sulphur Dioxide (as SO2) | IS:5182 (P-2), Modified West and Gaeke, RA:2012 | 9.4 | µg/m³ | 80 |
| 5 | Carbon Monoxide (as CO) | IS:5182 (P-10) Gas Chromatography, RA:2003 | 0.74 | 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) | SOP, SP-207, Issue No.01, Based on CPCB Guidelines:2018 | 5.6 | µg/m³ | 400.0 |
| 8 | Ozone (as O3) | IS:5182 (P-9), Colorimetric Method, RA:2005 | 12.10 | µg/m³ | 180.0 |
| 9 | Lead (as Pb) | IS:5182 (P-22), Air Acetylene Method, RA:2009 | 0.05 | µg/m³ | 1.0 |
| 10 | Arsenic (as As) | IS:5182 (P-22), :2004 | *BDL(*DL- 1.0 ng/m³) | ng/m³ | 6.0 |
| 11 | Nickel (as Ni) | IS:5182 (P-22), Air Acetylene Method, | *BDL(*DL- 5.0 ng/m³) | ng/m³ | 20.0 |

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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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/A/1910240008

Report No. : VEL/A/1910240008

| S.No. | Parameters | Test Method | Results | Units | Limit as per CPCB |
|-------|---|---------------------|-----------------------------------|-------------------|-------------------|
| 11 | | RA:2009 | ng/m ³ | | |
| 12 | Benzo (alpha) Pyrene-Particulate Phase Only | IS:5182 (P-12):2004 | *BDL(*DL- 0.5 ng/m ³) | ng/m ³ | 1.0 |

End of Report

(Tested By)

(Checked 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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/N/1910240005

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/1910240005

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 02/11/2019

Receipt Date : 24/10/2019

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 Pump House

Instrument Code : VEL/SLM/05

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 21/10/2019 To 22/10/2019

Time of Monitoring : 6.00 to 6.00 Hrs.

Ambient Temperature (°C) : Min. 21 Max 30

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 | 76.2 | 68.1 |
| 2 | L min | IS: 9989-1981, IS 9876: 1981 | 53.4 | 43.9 |
| 3 | Leq | IS: 9989-1981, IS 9876: 1981 | 63.11 | 57.11 |

| 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)

(Checked By)

(Approved By)

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Page No. 1/1



Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035
Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/N/1910240006

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/1910240006

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 02/11/2019

Receipt Date : 24/10/2019

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/06
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/10/2019 To 22/10/2019
Time of Monitoring : 6.00 to 6.00 Hrs
Ambient Temperature (°C) : Min. 19 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 | 65.2 | 58.1 |
| 2 | L min | IS: 9989-1981, IS 9876: 1981 | 41.1 | 36.4 |
| 3 | Leq | IS: 9989-1981, IS 9876: 1981 | 62.12 | 49.65 |

| 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.
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End Of Report

(Tested By)

(Checked 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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/N/1910240007

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/1910240007

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 02/11/2019

Receipt Date : 24/10/2019

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/07

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 21/10/2019 To 22/10/2019

Time of Monitoring : 6.00 to 6.00 Hrs

Ambient Temperature (°C) : Min. 21 Max 31

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 | 64.1 | 59.6 |
| 2 | L min | IS: 9989-1981, IS 9876: 1981 | 46.5 | 44.8 |
| 3 | Leq | IS: 9989-1981, IS 9876: 1981 | 62.54 | 54.94 |

| 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

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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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/N/1910240008

Report No. : VEL/N/1910240008

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

Format No : 7.8 F-01
Party Reference No : NIL
Reporting Date : 02/11/2019
Receipt Date : 24/10/2019
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 : Bachelor Hostel
Instrument Code : VEL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/10/2019 To 22/10/2019
Time of Monitoring : 6.00 to 6.00 Hrs.
Ambient Temperature (°C) : Min. 20 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 | 62.4 | 56.4 |
| 2 | L min | IS: 9989-1981, IS 9876: 1981 | 42.5 | 37.1 |
| 3 | Leq | IS: 9989-1981, IS 9876: 1981 | 56.82 | 44.11 |

| 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.
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End of Report

(Tested By)

(Checked 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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number: VEL/JKCW/ST/17
Name and Address of Project: M/s JK Cement Works
(Unit of JK Cement Ltd.)
Vill. & PO Gotan, Dist.- Nagaur, Raj.
Report No.: VEL/ST/1911090002
Format No.: 5.10 F-01
Party Reference No.: NIL
Reporting Date: 09/11/2019
Period of Analysis: 06- 09/11/2019
Receipt Date: 06/11/2019

Sample Description: STACK EMISSION MONITORING

General Information:-

Client Representative : Dr. Ranjeet Kumar Bagariya
Sample collected by : VardanEnviroLab Representative
Sampling Date & Time : 04/11/2019 (11:30 to 12:10 Hrs.)
Sampling Location : Raw Mill/Kiln ESP
Latitude : 26°38'38.1"
Longitude : 73°44'27.3"
Sampling Duration (Minutes) : 40.0
Stack Attached to : ESP
Metrological Condition : Clear Sky
Instrument Calibration Status : OK
Height of Stack : 1.4 m
Diameter of Stack : 35 m
Ambient Temperature-Ta (°C) : 30.0
Temperature of Stack Gases-Ts (°C) : 174
Velocity of Stack Gases (m/sec.) : 8.72
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) Reaffirmed 2003 | 21.7 | mg/Nm3 |
| 2. | Nitrogen Dioxide (NOx) | IS 11255 (P-7) Reaffirmed 2003 | 514.0 | mg/Nm3 |
| 3. | Sulphur Dioxide (SO ₂) | IS 11255 (P-2) Reaffirmed 1985 | 12.2 | mg/Nm3 |
| 4. | Carbon Monoxide (as CO) | #SOP No. VEL/SOP/01, Section No. SP 74 | 21.8 | mg/Nm3 |

Tested By

(Checked 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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number: VEL/ JKCW /ST/20
Name & Address of Party: M/s JK Cement Works
(Unit of JK Cement Ltd.)
Vill. & PO Gotan, Dist.- Nagaur, Raj.
Report No.: VEL/A/1911090004
Format No.: 5.10 F-01
Party Reference No.: NIL
Reporting Date: 09/11/2019
Period of Analysis: 06- 09/11/2019
Receipt Date: 06/11/2019
Sample Description : STACK EMISSION MONITORING

Client Representative : Dr. Ranjeet Kumar Bagariya
Sample Collected : VardanEnviroLab Team
Date & Time of Sampling : 04/11/2019 (14:00 PM to 14:45 PM)
Stack Location : Cooler Stack
Sampling duration (Minutes) : 45.0
Stack Attached to : ESP
Meteorological Condition : Clear Sky
Instrument Used : Stack Monitoring Kit
Stack Diameter : 5.2 m
Stack Height : 59.6 m
Instrument calibration status : OK
Ambient Temperature - Ta (°C) : 30.0
Temperature of Stack Gases - Ts (°C) : 140.0
Velocity of Stack Gases (m/sec.) : 7.01
Flow rate of PM (LPM) : 22.0
Sampling condition : Isokinetic
Protocol used : IS-11255

RESULTS

| S. No. | Parameter | Protocol | Result | Unit |
|--------|-------------------------|--------------------------------|--------|--------------------|
| 1. | Particulate Matter (PM) | IS 11255 (P-1) Reaffirmed 2003 | 24.8 | mg/Nm ³ |

(Tested By)

(Checked 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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number: VEL/JKCW/ST/01
Name and Address of Project: M/s JK Cement Works
(Unit of JK Cement Ltd.)
Vill. & PO Gotan, Dist.- Nagaur, Raj.
Report No.: VEL/ST/1911090001
Format No.: 5.10 F-01
Party Reference No.: NIL
Reporting Date: 09/11/2019
Period of Analysis: 06- 09/11/2019
Receipt Date: 06/11/2019

Sample Description: STACK EMISSION MONITORING

General Information:-

Client Representative : Dr. Ranjeet Kumar Bagariya
Sample collected by : VardanEnviroLab Representative
Sampling Date & Time : 04/11/2019 (10:00 to 10:58 Hrs.)
Sampling Location : Pet Coke/ Coal Mill
Latitude : 26°38'40.4"
Longitude : 73°43'37.9"
Sampling Duration (Minutes) : 58.0
Stack Attached to : Bag House
Metrological Condition : Clear Sky
Instrument Calibration Status : OK
Height of Stack : 30.0 m
Diameter of Stack : 0.9 m
Ambient Temperature-Ta (°C) : 30.0
Temperature of Stack Gases-Ts (°C) : 74.2
Velocity of Stack Gases (m/sec.) : 4.66
Flow rate of PM (LPM) : 17.0
Protocol Used : IS :11255

| S. No. | Parameter | Protocol | Result | Unit |
|--------|-------------------------|--------------------------------|--------|--------|
| 1. | Particulate Matter (PM) | IS 11255 (P-1) Reaffirmed 2003 | 10.5 | mg/Nm3 |

(Tested By)

(Checked 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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number : VEL/S/1910240015

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/1910240015

Format No : 7.8 F-01

Party Reference No : NIL

Reporting Date : 02/11/2019

Period of Analysis : 24/10/2019-02/11/2019

Receipt Date : 24/10/2019

Sample Description : Stack Emission Monitoring

General Information

Sampling Location : Cement Mill & Packing Plant
Sample Collected by : Vardan EnviroLab Team
Date of Sampling : 21/10/2019
Sampling duration (Minutes) : 45 Min
Stack attached to : --
Make of stack : --
Diameter of stack(m) : 0.9 M
Height of stack(m) : 30 M
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 25
Temperature of Stack Gases - Ts (°C) : 60
Velocity of Stack Gases (m/sec.) : 6.12
Flow rate of PM (LPM) : 23.6
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 | 12.69 | mg/Nm3 | 30* |

End of Report


(Tested By)


(Checked 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
(NABL Accredited ISO 9001 | ISO 14001 | OHSAS 18001)

Test Certificate

Sample Number: VEL/JKCW/ST/19
Name and Address of Project: M/s JK Cement Works
(Unit of JK Cement Ltd.)
Vill. & PO Gotan, Dist.- Nagaur, Raj.
Receipt Date: 06/11/2019
Report No.: VEL/ST/1911090003
Format No.: 5.10 F-01
Party Reference No.: NIL
Reporting Date: 09/11/2019
Period of Analysis: 06- 09/11/2019

Sample Description: STACK EMISSION MONITORING

General Information:-

Client Representative : Dr. Ranjeet Kumar Bagariya
Sample collected by : VardanEnviroLab Representative
Sampling Date & Time : 04/11/2019 (12:30 to 13:10 Hrs.)
Sampling Location : Crusher
Sampling Duration (Minutes) : 47.0
Stack Attached to : Bag House
Metrological Condition : Clear Sky
Instrument Calibration Status : OK
Height of Stack : 30 m
Diameter of Stack : 0.8 m
Ambient Temperature-Ta (°C) : 30.0
Temperature of Stack Gases-Ts (°C) : 57.4
Velocity of Stack Gases (m/sec.) : 5.38
Flow rate of PM (LPM) : 21.0
Protocol Used : IS :11255

| S. No. | Parameter | Protocol | Result | Unit |
|--------|-------------------------|--------------------------------|--------|--------|
| 1. | Particulate Matter (PM) | IS 11255 (P-1) Reaffirmed 2003 | 14.2 | mg/Nm3 |

(Tested By)

(Checked 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 |