

Kantharia-Mine/EC/Compliance/21-22/**Date:28.05.2022**

To,
The Director (M),
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhawan, JOR Bagh Road, Aliganj,
New Delhi-110003

Sub: Environmental Clearance Compliance report China Clay Mine production capacity of 150000 TPA and installed 65 TPH Crusher at China Clay Mines M.L. 27/92 (Measuring 53.8424 Ha.). N/V: Kantharia, Tehsil & District – Chittorgarh (Rajasthan) Owned by M/s. J.K. White Cement Works, P.O.-Gotan, District-Nagaur, Rajasthan.

Ref: EC Letter No. J-11015/296/2011-IA. II (M) dated: 03.07.2015

Dear Sir,

Kindly refer to the above subject matter and refer EC letter no., please find enclosed herewith EC compliance report for the period of **October'2021 to March'2022**.

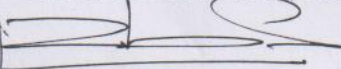
As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, monitoring-ec@nic.in, iro.jaipur-mefcc@gov.in.

We hope that the compliance is in order.

Thanking you.

Yours Faithfully

For J. K. Cement Works, Nimbahera



R.B.M Tripathi
President (Operations)

Encl: as above

Copy:

1. The Deputy Director(S), Ministry of Environment, Forests & Climate Change, Integrated Regional office, Jaipur, A-218, Aranya Bhawan, Jhalana Institutional Area, Jaipur-302004
2. The Regional Director, Central Pollution Control Board, Paryavaran Parisar, E-5, Area colony, Bhopal (M.P) 462016
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, New Delhi 110032.
4. The Chairman, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur - 302004 (Rajasthan).

Corporate Office

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

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

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Six Monthly Compliance Report of China Clay Mine production capacity of 150000 TPA and installed 65 TPH Crusher at China Clay Mines M.L. 27/92 (Measuring 53.8424 Hactares). N/V: Kantharia, Tehsil & District – Chittorgarh (Rajasthan) Owned by M/s. J.K. White Cement Works, P.O.-Gotan, District-Nagaur, Rajasthan-342902, Compliance of Environmental Clearance No. J-11015/296/2011-IA. II (M) dated: 03.07.2015. for the Period of **October 2021 to March 2022.**

A	Specific Conditions	Status
1	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Rajasthan and any other Court of Law, if any, as may be applicable to this project.	Noted & agreed Mining will be done as per Hon'ble Supreme Court Order dated 29/07/2013
2	Environmental clearance is subject to obtained clearance, if any, under the Wildlife (Protection) Act, 1972 from the Competent Authority, as may be applicable to this project.	Not applicable.
3	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	Mining lease not fall under forest area
4	The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, Rajasthan and effectively implement all the conditions stipulated therein.	CTO obtained from RSPCB vide letter no. F(Mines)Chittorgarh/1897 /(1) /2016-2017/1389-1393, dated 17/06/2020
5	The local species may be recommended to be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species.	Noted and complied.
6	Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented. The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.	Complying with. Periodical medical checkups are carried out and there is no occupational disease observed so far.
7	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.	Complied with. All the issues raised during the Public hearing are well addressed as per the submitted action plan.
8	The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out. The Report on six monthly basis on changes in Ground Water level and quality shall be submitted to the Regional Office of the Ministry.	Complying with. There is no mine intersection.
9	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered	Complying with. The water spray on haul road is being carried out. Only valid PUC vehicle is used.

	trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centers.	
10	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Complied with. Rain water harvesting pit has been constructed and maintained.
11	Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured; Washing of all transport vehicle should be done inside the mining lease.	Complying with. Water tanker fitted with sprinkler is being used for suppressing fugitive dust. Washing of transport vehicles is not required for minimizing water consumption.
12	Implementation of Environment Management Policy of the Company w.r.t. judicious use of Mineral resources for growth & development synchronizing mining & environment with prosperity.	Complied with. Environment Management Policy has been implemented.
13	The project Proponent shall also take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted in the study area.	Complying with. All precautionary measure has been taken for conservation of flora & fauna.
14	The illumination and sound at night at project site, disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. Project Proponent must ensure that the biological clock of the villages is not disturbed by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	Complying with. Mining will be done strictly in day hours in a single shift. Noise levels are kept well within the limit by regular monitoring and proper maintenance of machines. There is no mining operation and no flood lights during the night.
15	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers.	Complying with. Water tanker fitted with sprinkler is being used for dust suppression on haul roads.
16	Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The Project Proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	Public road of sufficient width is attached with our mining lease area for transportation of mineral.
17	Likewise, Alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternative arrangements shall be made first and then only the area acquired. In these types of cases, Inspection reports by site visit by experts may be	Complied with. There is no alteration road.

	insisted upon which should be done through reputed Institutes.	
18	CSR activities by Companies including the Mining Establishments has become mandatory up to 2% of their financial Turn-over, Socio Economic Development of the neighborhood habitats could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment & Forest and its Regional Office located at Lucknow on six monthly basis.	Complying with. CSR activities are being undertaken by the Company.
19	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Labor belongs to nearby villages and prefers to go home after completion of duty. Hence; there is no colony in the lease area.
20	A final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest & Climate Change 5 years in advance of final mine closure for approval.	Noted and will be complied.
B	General conditions	Status
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest & Climate Change.	Complying with. Mining activities is being carried out as per the approved mining plan.
2	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	Complying with. Excavation is being done as per the approved mining plan.
3	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	Noted, at present there are no permission required.
4	Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.	Not applicable.
5	Monitoring of Ambient Air Quality to be carried out based on the 2009 Notification, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	Complying with. Ambient Air Quality Monitoring is being carried out by NABL recognized lab, copy of report is attached as Annexure- 1. Water Sprinkling is done for dust suppression.
6	The upliftment of scheduled caste/scheduled tribe population, specific programmes have been taken in the consideration especially with respect to education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population and that these will be intensified in future.	Complying with.
7	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The	Mining is being carried out as per the approved mining plan. Top soil is utilized for plantation purposes. Overburden dumps scientifically vegetated with native species and Six monthly compliance status report is being submitted.

	<p>maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its Regional Office located at Lucknow on six monthly basis.</p>	
8	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. the drains shall be regularly desilted particularly after monsoon and maintained properly. The drains settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Complied with. Catch drains (800mX1mX1.5m) and siltation pond (25mX50m) has been prepared to arrest silt and sediment flows from mine pit and over burden dumps. The water collected in mine pit is being utilized for dust suppression, haul roads, plantation, greenbelt development.</p>
9	<p>Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.</p>	<p>The programme of greenbelt/ plantation is kept continuously within and outside the ML area with local species.</p> <p>The plantation is done along the road side, on the waste dump, on non-mineralized area, along ML boundary. The total plantation done till 2020-21 is 6042 nos. in 5.9 ha. And in 2021-22 plantation done 503 in 0.5 ha.</p>
10	<p>Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.</p>	<p>Complied with. Retaining walls constructed having dimension of 150mX1mX2m and 150m.</p>
11	<p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.</p>	<p>Complying with. Water Sprinkling is done on haul road, loading and unloading point to maintain Ambient Air Quality parameters.</p>
12	<p>Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to</p>	<p>There are no water bodies inside and near the lease area.</p>

	the Ministry of Environment, forest & Climate Change, its regional Office, Lucknow, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	
13	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year-pre-monsoon (April-May), monsoon (August), Post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest & Climate Change and its Regional Office, Lucknow, Central Ground Water Authority and Regional Director, Central Ground Water Board.	Ground water is not withdrawal from the lease area for mining purposes. Rainwater accumulated in mine sump is used for sprinkling on haul roads and plantation purpose. Mining activities does not intersect the GW table.
14	The critical parameters such as PM ₁₀ (size less than 10 micro meter), PM _{2.5} (size less than 2.5 micro meter), NO _x in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest & Climate Change, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	Complying with. Ambient air quality-monitoring are being carried out by NABL recognized lab and report is attached in Annexure-1. The monitored data is displayed on a display board at the project site near lease boundary in public domain.
15	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ & NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Lucknow and the State Pollution Control Board/Central Pollution Control Board once in six months.	Complying with. Ambient air quality-monitoring stations have been set up in Core Zone & Buffer Zone. Regular monitoring has been carried. Results are within the standards and being submitted to Regulatory Agencies.
16	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Complying with.
17	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.	Measures are taken for control of ambient noise levels. Workers are provided with all the necessary Personal Protective Equipment such as Helmet, Nose Mask , Safety Shoes etc.
18	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap	Not applicable There is no industrial waste water generated from mines operation.

	should be installed before discharge of workshop effluents.	
19	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Complying with. PPEs have been provided to all workmen and employees.
20	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Complying with. Regular medical check-up of the workers is conducted and no contractions due to exposure to dust has been observed.
21	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Complied with. Separate environmental management cell with suitable qualified personnel and headed by Senior Executive is already set up.
22	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Lucknow.	Complying with.
23	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Complied with.
24	The regional office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officers) of the regional Office by furnishing the requisite data/information/monitoring reports.	Noted & Agreed.
25	The Project Proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest & Climate Change, and its Regional office, Lucknow, Central Pollution Control Board and State Pollution Control Board.	Complying with. Six Monthly compliance report is being submitted to the MOEF &CC, CPCB and RSPCB.
27	A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom suggestion/representation has been received while processing the proposal.	Complied
28	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's office/Tehsildar's Office for 30 days.	Complied
29	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment, Forest & Climate Change at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	Complied with. Advertisement has been published in two local newspapers. Rajasthan Patrika on 07.07.2015 Dainik Bhaskar on 07.07.2015
30	The Ministry or any other Competent Authority may alter/modify the above conditions or stipulate any	Agreed.

	further condition in the interest of environment protection.	
31	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Agreed.
32	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Rajasthan and any other Court of Law relating to the subject matter.	Agreed.
33	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed.



Test Report

Sample Number: VEL/JKWC/A/01 Report No.: VEL/A/2203210019
Name & Address of the Party: M/s JK White Cement Works, Gotan (Unit of JK Cement LTD) China Clay Mines (M.L. No. 27/92) Vill. Kanthariya Chittorgarh, Rajasthan Format No.: 7.8 F 01
Party Reference No.: NIL
Sample Description: Ambient Air Quality Monitoring Report Date: 25/03/2022
Period of Analysis: 19/03/2022-25/03/2022
Receipt Date: 19/03/2022

General Information:-

Sampling Location : Mine Site (M.L. No. 27/92) (Core Zone)
Sample collected by : VEL Team
Sampling Equipment used : RDS & FPS
Instrument Code : VEL/RDS/FPS/32/23
Instrument Calibration Status : Calibrated
Latitude : 24.794128
Longitude : 74.586045
Meteorological condition during monitoring : Clear sky
Date of Sampling : 17/03/2022 to 18/03/2022
Time of Sampling : 09:00 to 09:00 Hrs.
Ambient Temperature (°C) : Min. 21°C, Max. 38 °C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	32.64	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	72.80	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	17.61	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	9.83	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.57	mg/m ³	4
6.	Ammonia (NH ₃)	IS: 11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene (C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene, (B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	8.31	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/m ³	20

Note :-*BDL-Below Detecation Limit,**DL-Detecation Limit.

(Checked By)

(Authorized Signatory)



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Test Report

Sample Number: VEL/JKWC/A/02 Report No.: VEL/A/2203210020
Name & Address of the Party: M/s JK White Cement Works, Gotan (Unit of JK Cement LTD) China Clay Mines (M.L. No. 27/92) Vill. Kanthariya Chittorgarh, Rajasthan Format No.: 7.8 F 01 Party Reference No.: NIL
Sample Description: Ambient Air Quality Monitoring Report Date: 25/03/2022 Period of Analysis: 19/03/2022-25/03/2022 Receipt Date: 19/03/2022

General Information:-

Sampling Location : Near Village Raghunathpura (M.L. No. 27/92) (Buffer Zone)
Sample collected by : VEL Team
Sampling Equipment used : RDS & FPS
Instrument Code : VEL/RDS/FPS/06/04
Instrument Calibration Status : Calibrated
Latitude : 24.774165
Longitude : 74.578115
Meteorological condition during monitoring : Clear sky
Date of Sampling : 18/03/2022 to 19/03/2022
Time of Sampling : 08:40 to 08:40 Hrs.
Ambient Temperature (°C) : Min. 22°C, Max. 39 °C
Surrounding Activity : Human, Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	28.64	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	60.47	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	13.02	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	7.87	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.49	mg/m ³	4
6.	Ammonia (NH ₃)	IS: 11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene (C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene, (B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	7.09	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/m ³	20

Note :- *BDL-Below Detecation Limit, **DL-Detecation Limit.

(Checked By)

(Authorized Signatory)



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Test Report

Sample Number:	VEL/JKWC/AN/01	Report No.:	VEL/N/2203210019
Name & Address of the Party:	M/s JK White Cement Works, Gotan (Unit of JK Cement LTD) China Clay Mines (M.L. No. 27/92) Vill. Kanthariya Chittorgarh, Rajasthan	Format No.:	7.8 F 01
		Party Reference No.:	NIL
		Reporting Date:	25/03/2022
Sample Description:	Ambient Noise Level Monitoring	Receipt Date:	21/03/2022
Scope of Monitoring	Regulatory Requirement	Sampling Duration	24 Hrs.
Protocol Used:	IS 9989: IS 9876	Sample Collected by	VEL Team
Instrument Used	SLM	Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Mine Site (M.L. No. 27/92) (Core Zone)
Instrument Code	: VEL/SLM/10
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 17/03/2022 to 18/03/2022
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 21°C, Max. 38 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	Leq	IS:9989,IS9876:1981	51.28	43.74

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 100 m around premises of Hospitals, Educational 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

(Checked By)

(Authorized Signatory)



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Test Report

Sample Number:	VEL/JKWC/AN/02	Report No.:	VEL /N/2203210020
Name & Address of the Party:	M/s JK White Cement Works, Gotan (Unit of JK Cement LTD)China Clay Mines (M.L. No. 27/92) Vill. Kanthariya Chittorgarh, Rajasthan	Format No.:	7.8 F 01
		Party Reference No.:	NIL
		Reporting Date:	25/03/2022
Sample Description:	Ambient Noise Level Monitoring	Receipt Date:	21/03/2022
Scope of Monitoring	Regulatory Requirement	Sampling Duration	24 Hrs.
Protocol Used:	IS 9989: IS 9876	Sample Collected by	VEL Team
Instrument Used	SLM	Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Near Village Raghunathpura (M.L. No. 27/92) (Buffer Zone)
Instrument Code	: VEL/SLM/10
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 18/03/2022 to 19/03/2022
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 22°C, Max. 39 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	Leq	IS:9989,IS9876:1981	50.34	41.84

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 100 m around premises of Hospitals, Educational 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

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