

JK Cement Works, Mangrol A unit of JK Cement Ltd. CIN: L17229UP1994PLC017199

↑ C/o. Kailash Nagar - 312617, Nimbahera Distt., Chittorgarh (Raj.) INDIA

+91-1477-220098, 220087

ikc.mgrl@jkcement.com

www.jkcement.com

MGR/PC-21/C13

through Email

Date: 19.11.2022

To. The Director (I), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhavan, JOR Bagh Road, Aligani, New Delhi-110003

Sub: Environmental Clearance Compliance report for Expansion of Clinker and Cement production, Captive power plant and WHRS of M/s J.K. Cement Works, Mangrol at Village- Mangrol, District-Chittorgarh, Rajasthan.

Ref.: EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.

Dear Sir.

With reference to above stated Environment Clearance (EC) accorded for our Mangrol plant, Clinker (2.90 MMTPA to 5.65 MMTPA) and Cement (3.54 MMTPA to 7.05 MMTPA) Captive Power Plant from 25 MW to 60 MW, and WHRB from 10 MW to 36 MW at our J.K. Cement Works, Mangrol. Please find attached herewith six monthly compliance for the period from April 2022 to September 2022.

As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the same soft copy has been send to email id. moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, iro.jaipur-mefcc@gov.in for your kind reference and record please.

We trust you will find the same in order.

Thanking you,

Yours Faithfully

For J. K. Cement Works, Mangrol



President (Operations)

Encl: as above

Copy to:

- 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, Arera 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
- e www.jkcement.com





Manufacturing Units at :

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





			Forr	n for I	Uploading Six M	lonthly Comp	liance Repor	rt			
Proposal Details											
Proposal No. IA/RJ/IND/20 196/ 2013			Project Name	Expansion of existing Clinker and Cement Manufacturing Capacity of M/s. J.K. Cement Works (2.90 MMTPA to 5.65 MMTPA of Clinker Production and 3.45 MMTPA to 7.05 MMTPA of Cement Production), Captive Power Plant from 25 to 60 MW by installation of an additional Coal Based Captive Power Plant of 35 MW and WHRB from 10 to 20 MW by installing an additional Waste Heat Recovery Boiler of 10 MW, at Village - Mangrol, Tehsil-Nimbahera, District - Chittorgarh, Rajasthan, and Integrated Cement Plant (Clinker 5.65 MTPA; Cement 7.05 MTPA; CPP 60 MW - Coal Based 35 MW and WHRB 20 MW) located at Village - Mangrol, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Works - Amendment in Environmental Clearance for Expansion of WHRB from 20 MW to 30 MW under the clause 7(ii) of EIA Notification, 2006							
Ca	ategory	Α	MoEF File No.	J-110	11/267/2013-IA.	II (I) dated. 08	.09.2016 & Ar	mendn	nent dated 08.03.2019		
Name of the Entit	ty /Corp	orate Office*	M/s. J.K. Ceme	nt Wo	orks, Nimbahera,	Kailash Nagar,	District Chitte	orgarh	-31261, Rajasthan		
Entity'	s PAN*	AABCJ0355R									
Entity Name as p	er PAN	J K CEMENT L	IMITED.								
Compliance Letter	r/Report	t									
Reporting Year*		2022	Reporting Pe	riod*	April-2022 to Se	ptember-2022					
Remarks (if any)	5.65 M ⁻ - Chitto	TPA; Cement 7 orgarh, Rajasth	.05 MTPA; CPP	60 MV Cemen	V - Coal Based 35 It Works - Amend	MW and WHR	B 20 MW) loc	ated a	mber-2022 of Integrated Cement I t Village - Mangrol, Tehsil - Nimba or Expansion of WHRB from 20 M	hera, District	
Details of Produ	ction an	d Project Area) 						,		
Date of Commen	cement	of Project /Ac	tivity:* Line	e-1: 12	.07.2004; Line-2:	04.07.2014 Lin	e-3: 29.09.20	19	Project Area as Per EC Granted	142.42 ha.	
Actual Project A	Actual Project Area (In Case of Mine Lease):*			142.42 ha. (In Case of Mine Lease):*							
PRODUCTION CA	APACITY	•									
Name of	Name of the Product*			Units	5 *	As per EC	granted*	Pro	duction during last financial year	*: 2021-22	
Clinker Production M			Million	Tons F	Per Annum	5.0	65		4.816965		
	Ceme	nt Production	Million	Tons F	Per Annum	7.0	05		6.992868		

CPP (Electricity Generation)	MW/Hr.	60	164144.88 Mwh
WHRB (Electricity Generation)	MW/Hr.	30	217037 Mwh

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (RAJASTHAN) (Period: Apr'2022 to Sept'2022)

Expansion of existing Clinker and Cement Manufacturing Capacity of M/s. J.K. Cement Works (2.90 MMTPA to 5.65 MMTPA of Clinker Production and 3.45 MMTPA to 7.05 MMTPA of Cement Production), Captive Power Plant from 25 to 60 MW by installation of an additional Coal Based Captive Power Plant of 35 MW and WHRB from 10 to 20 MW by installing an additional Waste Heat Recovery Boiler of 10 MW, at Village - Mangrol, Tehsil-Nimbahera, District - Chittorgarh, Rajasthan and EC Amendment: - Integrated Cement Plant (Clinker 5.65 MTPA; Cement 7.05 MTPA; CPP 60 MW - Coal Based 35 MW and WHRB 20 MW) located at Village - Mangrol, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Works - Amendment in Environmental Clearance for Expansion of WHRB from 20 MW to 30 MW under the clause 7(ii) of EIA Notification, 2006

EC Letter No.: J-11011/267/2013-IA. II (I) dated. 08.09.2016 and Amendment dated 08.03.2019

A. SPECIFIC CONDITION: -

S. No.	Condition Type	Condition Details	Self Declaration	Remarks / Reason
i	Monitoring	The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by the CPCB and submit report to Ministry and its Regional Office.	Complied	• Four (4) nos. of Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been established at periphery of the plant for monitoring of the air quality and real time data is being transmitted to CPCB/SPCB portals.
ii	Monitoring And Preservation	The Standard issued by the Ministry vide G.S.R. No. 612 (E) dated 25^{th} August, 2014 and subsequent amendment dated 9^{th} May, 2016 and 10^{th} May, 2016 regarding cement plant with respect to Particulate Matter, SO_2 and NO_X shall be followed.	Complied	 Unit is complying with the aforesaid stack emission standards. Unit has provided the Bag House/Bag Filter/ESP in all process stacks to control the PM emission. Unit has provided the SNCR system to control the NOx emission. Photos of the same is given below: Detail stack emission monitoring and co-processing emission monitoring results for the period: Apr-22 to Sept-22 is enclosed as <u>Annexure-1</u>.





iii Air Quality
Monitoring
And
Preservation

Continuous stack monitoring facilities to monitor gaseous emissions from process stacks shall be provided. After expansion, limit of PM shall be controlled to meet prescribed standards by installing adequate air pollution control viz. Electrostatic precipitators to clinker cooler, bag house to raw mill/kiln and bag filter to coal mill and cement mill. Low NOx burner shall be provided to control NOx emissions. Regular calibration of the instruments must be ensured.

Complied

- CEMS system has been installed for continuous emission monitoring of the PM, SO₂ and NO_X at all process stacks.
- Bag house has been installed in Raw Mill & Kilns, Cement Mills and Coal Mills to control the PM emission.
- ESP has been installed in Coolers and Boiler to control the PM emission.
- Low NOx burner has been installed in Line-1, Line-2 & Line-3.
- SNCR system has also been installed to control the NOx emission.
- CEMS real time data is being uploaded regularly on CPCB & RSPCB portals.
- Calibration of the CEMS instruments being done on quarterly basis.

iv Energy Preservation Measures Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonnes for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.

Complied

- All suitable measures like VVFD, high efficient motors have been adopted to reduce power consumption.
- The specific Power and Thermal Energy Consumption is as given below:

Month		onsumption n of Cement)	Thermal Energy Kcal/Kg. of Clinker (with loss)
	OPC	PPC	of Clinker (with loss)
Apr-22	70.3	54.4	750.3
May-22	68.9	54.9	754.4
Jun-22	69.0	53.8	758.4
Jul-22	72.9	58.9	762.6

1							
				Aug-22	74.3	58.8	759.6
				Sep-22	68.8	55.8	758.9
				Average	70.2	55.6	757.4
(v)	Air Quality Monitoring and Preservation	The National Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Complied	 Four nos. Continuous Air Quality Monitoring Station (CAAQMS) at periphery of the plant for monitoring of ambient air quality and real time data's are being transmitted to CPCB/SPCB portals. Manual AAQ monitoring are being also done and AAQ Monitoring results are found well within the prescribed standards. Detail Ambient Air Quality Monitoring results (Manual) for the period: Apr-22 to Sept-22 is enclosed as <u>Annexure-2</u>. 			
(vi)	Air Quality Monitoring And Preservation	AAQ Modelling shall be carried out based on the specific mitigative measures taken in the existing project and proposed for the expansion project to keep the emissions well below prescribed standards.	Complied	AAQ modelling were carried out as part of the EIA report of expansion project and based on the specific mitigative measures taken to keep the emissions well within the prescribed standards.			he specific mitigative
(vii)	Air Quality Monitoring And Preservation	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines/Code of Practice issued by the CPCB in this regard shall be followed.	Complied			neasures taken are as: - isfer points, enclosures y system provided at ed covered sheds and product. r the period: Apr-22 to	

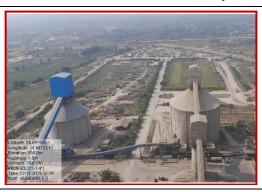




Raw material covered belt conveyor



Raw meal storage in CF silo



Clinker Storage Silo

(viii) Miscellaneous

A statement on carbon budgeting including the quantum of equivalent CO₂ being emitted by the existing plant operations, the amount of carbon sequestered annually by the existing green belt and the proposed green belt and the quantum of equivalent CO₂ that will be emitted due to the proposed expansion shall be prepared by the project proponent and submitted to the Ministry and the Regional Office of the Ministry. This shall be prepared within a period of 6 Months and subsequently it should be prepared every year.

Complied

Unit is continuously making efforts to reduce the CO₂ emissions such as: -

- 1. Increase the green power generation from waste heat of cement plant by Waste Heat Recovery Boiler.
- 2. For reduction of mineral consumption, increase the PPC production.
- 3. For reduction of fossil fuel consumption, Hazardous & others waste is being co-processed as AFR.
 - In FY 2021-22: total 1, 08,214.54 MT waste material coprocessed as AFR.
 - In FY 2022-23 till Sept: total 136762.624 MT waste material co-processed as AFR.

				4. Dense greenbelt is developed in & around the plant & colony.5. Solar Power Plant of 7.0 MW installed at Mangrol Plant & Colony.
(ix)	Human Health Environment	For the employees working in high temperature zones falling in the plant operation areas, the total shift duration would be 4 hrs. or less per day where the temperature is more than 50°C. Moreover, the jobs of these employees will be alternated in such a way that no employee is subjected to working in high temperature area for more than 1 hr. continuously. Such employees would be invariably provided with proper protective equipments, garments and gears such as head gear, clothing, gloves eye protection etc. There should also be an arrangement for sufficient drinking water at site to prevent dehydration etc.	Complied	No any workmen/employee are being allowed to work more than 4 hrs. where temperature is more than 50 °C. However, during shutdown, works start only after cooling of equipment's. Adequate personal protective equipment's (PPEs) are being provided to respective worker.
(x)	Miscellaneous	Arsenic and Mercury shall be monitored in emissions, ambient air and water.	Yet to be complied	Arsenic and mercury monitoring in stack emissions, ambient air and water quality is being carried out by MoEF&CC recognized laboratory. Kindly refer the stack, water quality and ambient air monitoring report.
(xi)	Miscellaneous	The coal yard shall be lined and covered.	Complied	Coal are being storage in covered storage yard.
Time: 20-06-2020 1-1812 Note: COAL MARD MARKER HART Removed by Note Can		Time	2: 14-07-2020 12:09 RAW MATERIALS STORES CUERTO SHIP AT MASSEROL SHAMT	
(xii)	Miscellaneous	The project proponent shall prepare a report on impact of project on surrounding reserve forest within six months and	Complied	There is no Wildlife Sanctuary, National Park, within 10 Km periphery of the lease area. The same has been

		will get it approved from the State Forest Department. A copy of the conservation with the State Forest and Wildlife Department. A copy of the same should be submitted to the Ministry and its Regional Office.		authenticated by Deputy Conservator of forest Chittorgarh vide letter no. AF () survey/UVS/2021-22/4089 dated 13.07.2021.
(xiii)	Statutory compliance	The project proponent shall take all precautionary measures for conservation and protection of wild fauna in the study area. A Wildlife Conservation Plan specific to this project site shall be prepared in consultation with State Forest and Wildlife Department. A copy of the Conservation plan shall be submitted to the Ministry and its Regional Office.	Complied	Combined WLCP has been prepared for 5 Nos. of captive Limestone Mines and 2 Nos. of Integrated Cement Plant of J K Cement Ltd are situated within 10 Km radius in Tehsil Nimbahera, Chittorgarh District. Wildlife Conservation Plan (WCP) has been prepared for 6 Schedule-I Species found in the buffer area during the survey i.e.: - a) Pavocristatus (Indian Peafowl), b) Pantherapadusfusca (Indian Leopard), c) Prionailurusrubiginosus (Rusty-Spotted Cat), d) Canis lupus pallipes (Indian Wolf), e) Varanusbengalensis (Indian Monitor Lizard) f) Gyps indicus/Gyps bengalensis (Indian Vulture) Wild life conservation plan has been forwarded by the DFO, Chittorgarh to Divisional Chief Conservator of Forest vide letter No.: F(5) Survey/UVS/2021-22/4089 dated 13.07.2021 and accordingly 20% amount of Rs. 57.07 Lakh deposited to DFO - Chittorgarh against the total amount of WCP of Rs. 285.30/- Cr in July-2021.
(xiv)	Statutory compliance	The project proponent will also provide the latest status of the environment compliances in respect of its existing plant.	Complied	Periodical EC compliance is being submitted and last EC compliance report submitted vide our letter No.: MGR/PC/21/C13 dated 25.05.2022 send by email for the period: October-21 to March-22.
(xv)	Air Quality Monitoring And Preservation	Efforts shall be made to reduce impact of the transport of the raw material and end products on the surrounding environment including agricultural land by the use of conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.	Complied	Raw material like coal/petcock is being transported through rail and maximum quantity of finished product dispatch through rail. Fly ash is being sourced from nearby to reduce the transportation impact. Separate truck parking area facilitated near the factory gate and regular water spray on road & yard being done.



	And meet the maximum water requirement. Only balance water requirement shall be met from other sources.			also. Total 16 nos. artificial rain water harvesting structures (Injection well) & 01 Nos. artificial pond constructed in our plant, Colony for recharge the ground water.			
				ANGEO RAIS			
		Photographs of Rain Water Harv	esting Struct	ure (Injection Well)			
(xviii)	Water Quality Monitoring And Preservation	Regular monitoring of influent and effluent surface, subsurface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986.	Complied	 No any effluent generated from cement plant. Only Domestic sewage generated from colony & plant, which is treated in through STP and reuse in plantation. Effluent generated from CPP & WHRS, after neutralization reuse in cement plant. Detail treated waste water analysis report of STP and ETP (CPP & WHRS) for the period: Apr-22 to Sept-22 is enclosed as Annexure-4. 			
(xix)	Miscellaneous	All the bag filter, raw mill dust, coal dust, clinker dust and cement dust from Pollution Control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers/re-processors only.	Complied	Raw mill dust, Coal dust, Clinker dust and Cement dust from Pollution control equipment like Bag house / ESP are being 100% recycled in cement manufacturing process. Hazardous waste i.e.: Used Oil (5.1), Waste Oil (5.2) are being sold to authorized recyclers and Batteries return back to the supplier & sold to registered recycler.			
(xx)	Miscellaneous	The kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes and other wastes including biomass, etc.	Complied	AFR feeding system has been installed for solid as well as for liquid AFR feeding. Photos of AFR feeding system are as below:			







(xxi)	Miscellaneous	The proponent shall examine and prepare a plan for utilization of high calorific waste such as chemical waste, distillation residues, refuse derived fuels etc. as alternate fuels based on availability and composition. For this, the proponent shall identify suitable industries with such waste and enter into an MOU for long-term utilization of such waste as per the Environment (protection) Rules, 1986 and with necessary approvals.	Complied	 Unit is having various hazardous waste/other waste permissions from CPCB/ RSPCB to use as Alternative fuel & raw materials (AFR) in cement plant. Hazardous & others waste is being co-processed as AFR. In FY 2021-22: total 1, 08,214.54 MT waste material co-processed as AFR. In FY 2022-23 till Sept: total 136762.624 MT waste material co-processed as AFR.
(xxii)	Miscellaneous	Efforts shall be made to use the high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly. The PP shall enter into an MOU with units with potential for generating hazardous waste and in accordance with Hazardous Waste Regulation and prior approval of the MPPCB.	Complied	Unit is using various type of hazardous waste/other waste in kiln, and ARM in cement manufacturing with due permission obtained from CPCB/RSPCB.
(xxiii)	Greenbelt	Green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area and along road sides etc. by planting native and broad leaved species in consultation with local DFO, local community and as per the CPCB guidelines.	Complied	 Total area of Plant = 126.95 ha. Green belt in plant area = 42 ha. Total nos. of tree in plant up to March 2022 = 164541 nos. Total nos. of saplings planted in plant in FY 2022-23 ill Sept = 3850 nos. in gap filling. Total area of colony = 22.47 ha. Green belt in colony = 7.44 ha.

				 Total nos. of tree in colony up to March 2022= 28401 nos. Total nos. of sapling planted in colony in FY 2022-23 till Sept = NIL. Total survived plantation up to March 2022 including plant & colony = 192942 nos. Photos of Greenbelt/Plantation developed in plant premises is enclosed as Annexure-5.
(xxiv)	Energy Preservation Measures	The project proponent shall provide for solar light system for all common areas, street light, village and parking around project area and maintain the same regularly.	Complied	Unit has installed the 7.0 MW capacity solar power plant and also solar light system installed as per feasibility of area like street, parking area & mine office roof top area etc.
(xxv)	Energy Preservation Measures	The project proponent shall provide for LED light in their offices and residential areas.	Complied	Unit has replaced existing light in the offices and residential areas by LED light.
(xxvi)	Statutory compliance	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.	Complied	 All recommendations made in the Charter on Corporate responsibility for Environment protection (CREP) for the Cement plant & Captive power plant. All material belt conveyors are covered with metal sheet. All road in cement plant are paved & cleaning by vacuum sweeping machine for minimize the fugitive dust emission. High efficient bag filters install at all material transfer point. All raw materials stored in covered storage yard & intermediate, finish product stored in silos. Bag house at Raw mill & Kiln, Coal Mill, Cement Mill etc. stack to maintain particular matter emission level of <30 mg/Nm3. Fly ash unloading through pneumatic system. Water spraying system installed at source of fugitive dust emission points. ESP's installed at cooler & Boiler stack.
(xxvii)	Corporate Environmental Responsibility	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and items-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Complied	 Various activities every year are being taken to benefit the society and address the public hearing issue. Details of CSR activities taken in FY 2021-22 are given below:

Implementation of such program constituting a Committee comprisi representatives of village Pand Administration. Action taken report submitted to the Ministry's Regional	ng of the proponent, hayat and District n this regards shall be				
Detail CSR Activities Carried Out in FY: 2021-22:					
Item from the list of activities in Amount Spent for the					

S. No.	Name of the project	Item from the list of activities in Schedule VII to the Act	Villages	District	Amount Spent for the Project (in Rs.)	
1	Drinking water supply by tankers in nearby villages	Water Management & Conservation	Arniya Joshi	Chittorgarh	172260	
	and water pipeline		Shahbad	Chittorgarh	99120	
			Mangrol	Chittorgarh	2844604	
			Tilakhera	Chittorgarh	123192	
2	CC Road Construction and	Rural Development	Mangrol	Chittorgarh	6530039	
	development work		Tilakhera	Chittorgarh	86193	
			Murlia	Chittorgarh	1843682	
3	Sanitization work	Health Care	Mangrol	Chittorgarh	497000	
4	Repairing of DG set at court & Construction of	Community Welfare	Mangrol	Chittorgarh	4216133	
	community hall	Tilakhera			1208573	
	Total CSR Activities and Expenditure (INR)					

				-
(xxviii)	In addition to the above provision of ESC, the proponent shall prepare a detailed CSR Plan for the next 5 years including annual physical and financial targets for the existing-cum-expansion project, which includes villagewise, sector-wise (Health, Education, Sanitation, Skill Development and infrastructure etc.) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.	Complied	Kindly refer the above point.	

(xxix)	Risk Mitigation And Disaster	A Risk Assessment Study and Disaster Preparedness and Management Plan along with the mitigation measures shall be prepared with a focus of Disaster Prevention and a copy	Complied	Unit has the onsite emergency plan with respect to following objectives. • To overcome any emergency in its initial stage and to handle
	Management	submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of Environment Clearance letter.		 To overcome any emergency in its initial stage and to handle Disaster in most effective manner. To eliminate any chance of loss to Human Life. To minimize loss of Property in the Plant and surrounding areas. To maintain essential supplies at the time of natural Calamities and/or Public disturbances. Approved On-Site Emergency Plan has been submitted at concern offices.
xxx	Human Health Environment	To educate the workers, all the work places where dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.	Complied	Unit display environment health & safety slogan / messages in the existing Plant premises to spread the awareness with respect to hazard and the associated health effects.
xxxi	Miscellaneous	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, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	Complied	All necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. has provided during the construction period.
В.	GENERAL CONI	DITIONS:		
(i)	Statutory compliance	The Project authorities must strictly adhere to the stipulation made by the Rajasthan Pollution Control Board and the State Government.	Complied	Consent to Operate has been granted for Cement Plant L-1, L-2, L-3, Power Plant, WHRS & Residential township by Rajasthan State Pollution Board, Jaipur and complies with all conditions.
(ii)	Statutory compliance	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC).	Complied	Prior approval of the MoEF&CC will be obtained for expansion or modification in the Plant, if any.
(iii)	Air Quality Monitoring And Preservation	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipate in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly	Complied	Unit has installed 04 nos. of stations for monitoring of Ambient Air Quality parameters i.e.: PM_{10} , $PM_{2.5}$, SO_2 & NOx in consultation with the RSPCB and monitoring data are being regularly submitted to the Ministry and its regional office and the SPCB/CPCB.

		submitted to this Ministry including its Regional Office at Lucknow and the SPCB/CPCB once in Six months.		Please refer the above Annexure-1 and Annexure- 2 for detail Stack Emission and Ambient Air Quality monitoring results for the period: Apr-22 to Sept-22, respectively.
(iv)	Water Quality Monitoring And Preservation	Industrial wastewater shall 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. The treated wastewater shall be utilized for plantation purpose.	Complied	There is no waste water discharge from cement plant, hence 'Zero discharge' facility adopted and waste water generated from CPP & WHRS is being reused after treatment in dust suppression and machineries cooling purpose in the cement plant.
(v)	Noise Monitoring And Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (daytime) and 70 dBA (night time).	Complied	Silencer, acoustic hoods, enclosures etc. are provided at noise generating points and PPEs are provided to respective workmen. Detail Noise level monitoring report for the period: Apr-22 to Sept-22 is enclosed as Annexure-6.
(vi)	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied	Occupational health surveillance of the workers is being done periodically.
(vii)	Water Quality Monitoring And Preservation	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied	Unit has already been developed 16 nos. of injection well and 1 recharge pond in the cement plant & colony.
(viii)	Statutory compliance	The project proponent shall also comply with all the environment protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, education programmes, drinking water supply and health care etc.	Complied	Kindly refer the point no. xxvii, details are mentioned as above.
(ix)	Statutory compliance	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An	Complied	Unit has made expenditures of Rs. 6681515/- towards environment pollution control measures including regulatory charges, environment monitoring, water charges etc. in FY 2021-22.

		implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Lucknow. The funds so provide shall not be diverted for any other purpose.		Detail environment protection measures expenditure made during the FY: 2022-23 will be submitted along with next EC compliance report.
(x)	Statutory compliance	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestion/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied	A copy of Environmental clearance letter has been sent to the SDM, Nimbahera tehsil, The Sarpanch, Gram panchayat, Mangrol, DIC, Chittorgarh, Chief Executive officer Zila parishad, Chittorgarh The District Magistrate, Chittorgarh on dated 19.09.2016 The clearance letter has uploaded on the website of the company i.e. https://www.jkcement.com/environmental-compliance
(xi)	Statutory compliance	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Lucknow. The respective zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied	Periodical EC compliance report with monitored data are being uploaded on company website and same has been sent to MoEF&CC, CPCB & RSPCB in soft copy through email. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NOx (ambient levels as well as stack emissions) is being displayed at main gate of the company in public domain.
(xii)	Statutory compliance	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow/ CPCB/SPCB shall monitor the stipulated conditions.	Complied	Last EC compliance report submitted vide our letter No.: MGR/PC/21/C13, dated 25.05.2022 through email for the period: Oct-2021 to Mar- 2022 on 31.05.2022.
(xiii)	Statutory compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of	Complied	The Environment Statement report of cement plant L-1,2,3, CPP 25MW, WHRS 10MW, 29.1 MW & Residential Colony of FY 2021-22 has submitted vide letter No.: MGR/PC/ESR/21/641 to 643, dated: 19.09.2022 to the RSPCB and Regional Office of the MoEF&CC and also uploaded on our company website, which can be assess by following link:

		compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Lucknow by e-mail.		https://www.jkcement.com/environmental-compliance
(xiv)	Statutory compliance	The Project Proponent shall inform the public that the project has been accorded environment 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 of Environment, Forest and Climate Change (MoEFCC) 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 newspaper 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 should be forwarded to the Regional Office at Lucknow.	Complied	Unit published the notice that the project has been accorded environmental clearance by the MoEF&CC in two newspapers namely. • Dainik Bhaskar dated 17.09.2016 • Rajasthan Patrika dated 17.09.2016
(xv)	Miscellaneous	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied	Agreed.
Amend	led EC Letter No.	: J-11011/267/2013-IA.II (I), dated 08.03.2019		
Α	General Condit	ions		
(ii)	Miscellaneous	It is mentioned that there will be no pollution load increment due to enhancement of WHRB capacity from 20 MW to 30 MW. The following measures will be implemented to increase the waste heat recovery power generation upto 10 MW: • Gain of 2.5 MW and 2.9 MW power generation by enhancement of boiler inlet flue temperature (from 380 480 C) by recirculation of hot air in line-2 and line respectively, i.e., total gain will be 5.4 MW. • Installing a new boiler with efficient heat recovery, as there will be higher stream recovery with temperature of 440 degree with minimization of condensing temperature, with gain of 4.6 MW.	Complied	Waste Heat Recovery Boiler (WHRB) is eco-friendly system and there is no increase pollution load by capacity enhancement of WHRB power generation.

(iii) Misce	ellaneous	The certified EC compliance has been obtained from Regional Office (Lucknow) of MOEF&CC vide letter No.: IV/ENV/R/IND167/946/2017/732 dated 09.07.2018.	Complied	Noted
(iv) Misce	ellaneous	The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.	Complied	Agreed
(v) Misce	ellaneous	The proposal was considered by the Expert Appraisal Committee (Industry-I) during its 34 th meeting held on 6 th to 7 th August, 2018. After detailed deliberations, the committee recommended for the grant of amendment to the environmental clearance with the following conditions. • The power generation from waste heat recovery boiler shall be enhanced to 20 MW to 36 MW. • The PP shall under take additional greenbelt development in 5% of the total area. • The PP shall construct 5 additional rainwater recharging pits.	Complied	29.1 MW WHRS has been installed.
(vi) Misce	ellaneous	The ministry considered the above recommendation of EAC and hereby decided to amend the Environmental Clearance vide letter F. No. J-11011/267/2013-IA.II (I) dated 08.09.2016 with the conditions as recommended by EAC in para 5 above.	Complied	Noted
(vii) Misce	ellaneous	All other terms and conditions in the Environmental clearance vide letter F. No. J-11011/267/2013-IA.II (I) dated 08.09.2016 are shall remain the same.	Complied	Noted

In compliance to the MoEFCC Office Memorandum F. No. IA3-22/8/2021-1A.III [150512] dated 18.07.2022 regarding Sensitization of project proponents on implementation of ban on Single Use Plastic (SUP) – Unit has been conducted awareness program to their employee, stakeholders and to the society in nearby villages, photographs of the same is enclosed in as **Annexure-7**.

Yours sincerely,

For, J. K. Cement Works, Mangrol



ANNEXURE-1

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

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ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number Issue Date

VLL/VLS/22/04982/001

2022/07/07 4600082693

P.O. Number P.O. Date

03/06/2022

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Sample Registration Date :

2022/06/27

Sampling Date

2022/06/17

Analysis Starting Date

2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

: Cooler-2Satck

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA Method No. 3A, 6C & 10B

Stack Height 48.9m

Height of Sampling Point

: 42.1 m

Stack Diameter at Test Location

: 3.4 m

\$.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1] st	11:00	97	14.8	104.2	<5.0
2	2 nd	11:40	98	14.8	103.7	<5.0
3	3rd	12:20	98	14.8	103.7	<5.0

Dr.SubbaReddyMallampati Deputy Manager-Environment

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

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M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/002

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: 2022/07/07

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Sample Registration Date :

2022/06/27

Sampling Date

2022/06/18

Analysis Starting Date

2022/06/27

Analysis Completion Date

2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Cooler-3 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

52.1m

Height of Sampling Point

45.5m

Stack Diameter at Test Location

3.5m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	10:00	87	16.14	127.4	<5.0
2	2nd	11:00	83	16.17	127.2	8.03
3	3rd	12:10	89	16.19	126.8	<5.0

Dr.SubbaReddyMallampati Deputy Manager-Environment

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Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA, DIST: CHITTORGARH, RAJASTHAN-312617,

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Sampling Date

2022/06/18

Analysis Starting Date

2022/06/27

Analysis Completion Date

2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

Coal mill -02 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

51.2 m 38.7 m

Stack Diameter at Test Location

1.6 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	14:00	67	20.9	36.46	11.8
2	2nd	15:00	68	20.1	36.35	<5.0
3	3rd	16:20	67	20.9	36.46	<5.0

Dr.SubbaReddyMallampati Deputy Manager-Environment

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INDIA.

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Sampling Date

2022/06/20

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

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TEST REPORT

J.K. CEMENT LIMITED

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

: Cement mill -3 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

Stack Diameter at Test Location

: 56 m

: 49.5 m : 2.9 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/\$)	Particulate Matter (mg/Nm³)
1	1 st	10:00	99	15.1	79.06	22.4
2	2nd	11:00	100	15.2	78.9	18.4
3	3rd	12:10	99	15.3	79	19.4

Dr.SubbaReddyMallampati Deputy Manager-Environment

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Unit: - J.K. CEMENT WORKS MANGROL

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Sampling Date

2022/06/20

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

: Coal mill -3 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

Stack Diameter at Test Location

62.2 m

43.6 m

2.24 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/\$)	Particulate Matter (mg/Nm³)
1	1 st	10:05	69	26.5	90.19	<5.0
2	2nd	11:15	70	26.4	89.84	<5.0
3	3rd	12:15	68	26.4	90.37	12.7

Dr.SubbaReddyMallampati Deputy Manager-Environment

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Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA. DIST: CHITTORGARH, RAJASTHAN-312617,

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Sample Registration Date :

2022/06/27

Sampling Date

2022/06/20

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

: Line-1 Cooler Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

40 m

Height of Sampling Point

: 33 m

Stack Diameter at Test Location

: 3 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/\$)	Particulate Matter (mg/Nm³)
1	1st	14:00	126	52.6	275	<5.0
2	2nd	15:10	127	52.6	274.4	<5.0
3	3rd	16:20	126	52.4	275.1	<5.0

Dr.SubbaReddyMallampati Deputy Manager-Environment

Registered Office 142, IDA Phase II, Cherlapally Hvderabad-500 051,Telangana, India

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Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

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Sample Registration Date :

2022/06/27

Sampling Date

2022/06/20

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address : Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Coal mill -1 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

: 30 m : 21.5 m

Stack Diameter at Test Location

: 0.8 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/\$)	Particulate Matter (mg/Nm³)
1	1st	13:55	65	31.3	12.34	5.96
2	2nd	15:00	66	31.2	12.3	10.46
3	3rd	16:10	66	31.3	12.32	10.59

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Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

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Sample Registration Date : 2022/06/27

Sampling Date

: 2022/06/21

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: LS Crusher-2

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

30 m

Height of Sampling Point

26.1 m

Stack Diameter at Test Location

1.25 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)	
1	1st	14:05	37	9.1	17.43	12.5	
2	2nd	14:55	37	9.1	17.4	10.3	
3	3rd	15:40	37	9.1	17.36	9.4	

Dr.SubbaReddyMallampati Deputy Manager-Environment

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Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA. DIST: CHITTORGARH, RAJASTHAN-312617.

INDIA.

Report Number

VLL/VLS/22/04982/009

Issue Date

2022/07/07

P.O. Number P.O. Date

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03/06/2022

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Sample Registration Date :

2022/06/27

Sampling Date

2022/06/11

Analysis Starting Date

2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

: LS Crusher-1

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

30 m 23.5 m

Stack Diameter at Test Location

0.69 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)	
1	1st	11:00	37	14.3	27.4	20.10	
2	2nd	11:33	38	14.4	27.31	21.7	
3	3rd	12:10	38	14.4	27.32	20.1	

Dr.SubbaReddyMallampati Deputy Manager-Environment

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ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA, DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/010

Issue Date

2022/07/07

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Sample Registration Date

2022/06/27

Sampling Date

2022/06/21

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Kiln-01 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

88.3 m

Stack Diameter at Test Location

77.5 m

2.6 m

\$.no	Test Id	Time (Hrs)	Temp. (°C)	O2 (%V/V)	CO2 (%V/V)	\$O2 (mg/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	14:30	125	11	16	34	617.1	16.2	63.78	8.7
2	2nd	15:30	126	11	16	39	615,0	16	62.92	<5.0
3	3rd	16:30	125	12.1	12.5	27	598.6	16.2	63.78	5.7

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ISSUED TO:

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Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/011

Issue Date

2022/07/07

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Sample Registration Date : 2022/06/27

Sampling Date

2022/06/22

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

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TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Cement Mill-4 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

61.7 m

Stack Diameter at Test Location

: 56.1 m

: 2.8 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/\$)	Particulate Matter (mg/Nm³)
ì	1 st	10:00	80	6	30.9	<5.0
2	2nd	11:00	80	6.1	31	11.6
3	3rd	12:01	81	6	32	11.8

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Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

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INDIA.

Report Number

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Issue Date

: 2022/07/07

P.O. Number

: 4600082693

P.O. Date : 03/06/2022

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Sample Registration Date Analysis Starting Date

2022/06/27

: 2022/06/27

Sampling Date Analysis Completion Date 2022/06/22 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

Cement mill-02 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

Stack Diameter at Test Location

35 m

: 24.7 m

: 1.1 m

Flow Time Temp. Velocity Particulate Matter S.no Test Id Rate (°C) (Hrs) (m/s)(mg/Nm³) (Nm³/S)14:10 9 1st 85 1 7.05 11.2 2 2nd 15:00 85 9.1 7.01 13.7 3 3rd 16:00 84 9.1 7.3 13.7

> Dr.SubbaReddyMallampati Deputy Manager-Environment

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

VLL/VLS/22/04982/013

Issue Date

2022/07/07

P.O. Number

: 4600082693

P.O. Date

03/06/2022

Page 1 of 1

Sample Registration Date :

2022/06/27

Sampling Date

2022/06/23

Analysis Starting Date

2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

: Packing Plant-01 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

30 m

: 25 m

Stack Diameter at Test Location

: 1 m

\$.no	Test Id	Time (Hrs)	Temp.	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	11:00	38	7	6.5	8.5
2	2nd	12:00	38	7.5	7.2	7.9
3	3rd	13:10	39	7.2	8.5	8.3

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

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ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617.

INDIA.

Report Number

: VLL/VLS/22/04982/014

Issue Date

2022/07/07

P.O. Number

4600082693

P.O. Date

03/06/2022

Page 1 of 1

Sample Registration Date

2022/06/27

Sampling Date

2022/06/23

Analysis Starting Date

2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

Plant Name & Address

: Packing Plant-02 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

30 m

Stack Diameter at Test Location

: 25 m

: 1 m

S.no	Test Id	Time (Hrs)	Temp.	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matte (mg/Nm³)	
1	1st	14:05	44	4.11	10.5	6.9	
2	2nd	15:15	44	4.5	11.3	7.2	
3	3rd	16:25	44	4.5	10.5	7.0	

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

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ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA. DIST: CHITTORGARH, RAJASTHAN-312617.

INDIA.

Report Number

: VLL/VLS/22/04982/015

Issue Date P.O. Number 2022/07/07

P.O. Date

4600082693 03/06/2022

Sample Registration Date : 2022/06/27

Sampling Date

2022/06/23

Page 1 of 1

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Packing Plant-03 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

30 m : 25 m

Stack Diameter at Test Location

: 1 m

\$.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/\$)	Particulate Matter (mg/Nm³)
1	1st	17:05	43	5.9	12.9	8.2
2	2nd	18:05	43	6.1	14	7.9
3	3rd	19:05	44	5.8	13.6	8.4

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

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ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/016

Issue Date

: 2022/07/07

P.O. Number

4600082693

P.O. Date

03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27

Sampling Date

2022/06/23

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Packing Plant-04 Stack

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

Stack Diameter at Test Location

30 m

: 25 m

1 m

S.no	Test Id	Time (Hrs)	Temp. (°C)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	9:10	40	7.3	30.12	8.8
2	2nd	10:20	40	7.4	30.13	9.0
3	3rd	11:15	41	7.4	27.8	8.4

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

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ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA, DIST: CHITTORGARH, RAJASTHAN-312617.

INDIA.

Report Number

VLL/VLS/22/04982/017

Issue Date P.O. Number

2022/07/07

P.O. Date

4600082693

: 03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27

Sampling Date

2022/06/22

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Kiln-02 Stack (Line-2)

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

158.5

104.3

Stack Diameter at Test Location

: 4.25

S.no	Test Id	Time (Hrs)	Temp.	O2 (%V/V)	CO2 (%V/V)	\$02 (mg/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	10:45	128	9	12	30	622.5	14.5	206	8.5
2	2nd	11:30	128	9	12	30	636.9	14.6	206	8.6
3	3rd	12:45	129	9	12	30	675.8	14.7	207	8.9

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

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ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/018

Issue Date

2022/07/07

P.O. Number

4600082693

P.O. Date

: 03/06/2022

Page 1 of 1

Sample Registration Date : 2022/06/27

Sampling Date

2022/06/18

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Sample Collected by Vimta Labs Ltd.

TEST REPORT

J.K. CEMENT LIMITED

Plant Name & Address

: Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA

Sampling Location

: Kiln-03 Stack (Line-3)

Test protocol

IS:11255 Part-1,2003, IS: Part-3, 2008, USEPA

Method No. 3A, 6C & 10B

Stack Height

Height of Sampling Point

Stack Diameter at Test Location

148 m

131.5 m

4 m

\$.no	Test Id	Time (Hrs)	Temp.	O2 (%V/V)	CO2 (%V/V)	SO2 (mg/Nm3)	NOx (mg/Nm3)	Velocity (m/s)	Flow Rate (Nm³/S)	Particulate Matter (mg/Nm³)
1	1st	9:40	103	7	10	35	492.0	16.8	211.6	9.3
2	2nd	10:30	104	8	11	47	508.4	16.9	211.8	8.5
3	3rd	11:20	104	8	10	46.25	502.3	16.8	211.8	8.7

(See Rule - 10) Final Report

Report No. : 2151

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City-Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108. Collected from Stack of cooler attached with E.S.P. Line-1 Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	10.41

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10)
Final Report

Report No. : 2152

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City-Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No ML-26108 Collected from Stack of coal mill-1 attached with bag house. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	11.52

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2153

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City-Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108. Collected from Stack of cement mill-2 attached with bag house. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	10.21

The condition of the seals, fastening and container on receipt was as follows: Intact Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) **Final Report**

Report No.: 2154

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surva Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol, Plant - Mangrol [735], Village Mangrol, City-Tilakhera and Mangrol Tehsil- Nimbahera, District- Chittorgarh M.L. No- ML-26108. Collected from Stack of cement mill-4 attached with bag house. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below :-

	Parameters	Result
1	Particulate Matter mg/Nm3	16.0

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

Rajasthan State Pollution Control Board Regional Office Chittorgarh Near FCI Godown, Chanderia, Chittorgarh

Phone:01472-255077

(See Rule - 10) Final Report

Report No. : 2155

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City-Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L. No- ML-26108 Collected from Stack of cement mill-3 attached with bag house. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	3.72

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2156

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City-Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108 Collected from Stack of Raw mill klin line-3 attached with bag house. Collected on 07/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	8.62

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2157

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108 Collected from Stack of cooler line-3 attached with E.S.P. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	12.26

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2158

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108 Collected from Stack of Coal mill-3 attached with bag house. Collected on 07/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	14.48

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2159

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City-Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L. No- ML-26108 Collected from Stack of Raw mill klin line-1 attached with bag house. Collected on 07/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	12.43

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2160

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City-Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108 . Collected from Stack of packing plant-2 Line 2 attached with bag filter. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	10.40

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2161

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City-Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108. Collected from Stack of packing plant-3 Line 2 attached with bag filter. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	12.79

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On **15/07/2022**

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2162

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108. Collected from Stack of packing plant-4 Line 2 attached with bag filter. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Particulate Matter mg/Nm3	25.07

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

(See Rule - 10) Final Report

Report No. : 2163

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Source Emission (Stack) of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108 Collected from Stack of packing plant-1 Line 2 attached with bag filter. Collected on 08/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the analysis to be as below:

	Parameters	Result
1	Particulate Matter mg/Nm3	12.56

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

Rajasthan State Pollution Control Board Regional Office Chittorgarh Near FCI Godown, Chanderia, Chittorgarh

Phone:01472-255077

J.K. Cement WORKS, MANGROL (RAJ) (Unit-1)

DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE

April'' 2022 - September'' 2022

DATE	NAME OF THE STACK / DUCT	CROSS SECTIONAL	STACK GASES	STACK GASES	FLOW OF GASES IN	DUST CONC.	MEAN DUST	EMISSION RATE	REMARK
	ATTECHED WITH UNIT	AREA OF	TEMP.	VELOCITY	STACK	2	CONC.		
	AND MONTH	DUCT (M2)	(⁰ K)	(M / Sec.)	(NM³/Sec.)	(Mg/NM ³)	(Mg/NM ³)	(Ts/DAY)	
	April'' 2022								
04.04.2022	KILN + RAW MILL (BH)	5.23	386	16.26	65.65	15.1	4	0.086	
13.04.2022	KILN + RAW MILL (BH)	5.23	391	15.70	62.58	8.2	10.6	0.044	
21.04.2022	KILN + RAW MILL (BH)	5.23	376	14.67	60.81	11.7		0.061	
28.04.2022	KILN + RAW MILL (BH)	5.23	402	14.00	54.28	7.4		0.035	
	May" 2022								
05.05.2022	KILN + RAW MILL (BH)	5.23	422	14.11	52.11	18.2	<u> </u>	0.082	
10.05.2022	KILN + RAW MILL (BH)	5.23	425	14.68	53.83	9.4	13.8	0.044	
17.05.2022	KILN + RAW MILL (BH)	5.23	406	13.50	51.82	16.4	13.0	0.073	
26.05.2022	KILN + RAW MILL (BH)	5.23	399	14.75	57.62	11.0		0.055	
	June" 2022								
05.05.2022	KILN + RAW MILL (BH)	5.23	424	14.72	54.11	8.0		0.051	
10.05.2022	KILN + RAW MILL (BH)	5.23	430	15.48	56.11	14.4	9.7	0.035	
17.05.2022	KILN + RAW MILL (BH)	5.23	417	15.50	57.93	10.5	9.7	0.056	
26.05.2022	KILN + RAW MILL (BH)	5.23	435	16.05	57.50	6.0	1	0.048	
	July" 2022								
07.07.2022	KILN + RAW MILL (BH)	5.23	411	16.44	62.34	9.4		0.046	
13.07.2022	KILN + RAW MILL (BH)	5.23	397	16.25	63.79	6.4	0.6	0.066	
22.07.2022	KILN + RAW MILL (BH)	5.23	391	16.22	64.65	10.1	8.6	0.035	
30.07.2022	KILN + RAW MILL (BH)	5.23	415	17.14	64.37	8.6	1	0.057	
	August'' 2022								
	KILN + RAW MILL (BH)								1
amon	KILN + RAW MILL (BH)			amon			amor.	amon	
STOP	KILN + RAW MILL (BH)			STOP			STOP	STOP	
	KILN + RAW MILL (BH)								
	September" 2022								1
STOP	KILN + RAW MILL (BH)		•	STOP		•		STOP	
14.09.2022	KILN + RAW MILL (BH)	5.23	415	15.05	56.52	9.1		0.044	
21.09.2022	KILN + RAW MILL (BH)	5.23	402	14.97	58.04	8.4	9.1	0.042	1
30.09.2022	KILN + RAW MILL (BH)	5.23	421	15.63	57.86	9.8	1	0.049	1

	April'' 2022								
04.04.2022	CLINKER COOLER (ESP)	7.07	375	14.30	98.78	11.4		0.097	
13.04.2022	CLINKER COOLER (ESP)	7.07	371	13.45	92.00	15.3	10.4	0.122	
21.04.2022	CLINKER COOLER (ESP)	7.07	369	13.73	96.42	13.9	12.4	0.116	
28.04.2022	CLINKER COOLER (ESP)	7.07	381	13.24	92.06	8.9	1	0.071	
	,								
	May" 2022								
05.05.2022	CLINKER COOLER (ESP)	7.07	401	13.42	91.80	18.6		0.148	
10.05.2022	CLINKER COOLER (ESP)	7.07	395	13.93	93.47	11.7	12.6	0.094	
17.05.2022	CLINKER COOLER (ESP)	7.07	412	14.51	98.93	15.2	13.6	0.130	
26.05.2022	CLINKER COOLER (ESP)	7.07	387	13.01	88.14	8.9		0.068	
			•	•	•				
	June'' 2022								
07.06.2022	CLINKER COOLER (ESP)	7.07	390	15.09	100.29	13.0		0.113	
14.06.2022	CLINKER COOLER (ESP)	7.07	397	14.24	93.76	20.8	140	0.168	
20.06.2022	CLINKER COOLER (ESP)	7.07	385	14.49	96.92	11.4	14.9	0.095	
27.06.2022	CLINKER COOLER (ESP)	7.07	404	15.00	99.38	14.5		0.125	
	July" 2022								
07.07.2022	CLINKER COOLER (ESP)	7.07	381	12.32	82.93	13.5		0.097	
13.07.2022	CLINKER COOLER (ESP)	7.07	386	12.93	89.61	8.8	0.0	0.068	
22.07.2022	CLINKER COOLER (ESP)	7.07	379	12.53	85.71	11.2	9.8	0.083	
30.07.2022	CLINKER COOLER (ESP)	7.07	391	13.36	93.51	5.6		0.045	
	August" 2022								
	CLINKER COOLER (ESP)								
STOP	CLINKER COOLER (ESP)			STOP			STOP	STOP	
STOP	CLINKER COOLER (ESP)			STOP			STOP	STOP	
	CLINKER COOLER (ESP)								
	September'' 2022								
STOP	CLINKER COOLER (ESP)			STOP				STOP	
14.09.2022	CLINKER COOLER (ESP)	7.07	395	14.47	99.63	11.5	12.7	0.099	
21.09.2022	CLINKER COOLER (ESP)	7.07	416	15.74	108.02	20.1	13.7	0.188	
30.09.2022	CLINKER COOLER (ESP)	7.07	410	15.73	107.60	9.6	7	0.089	

	April'' 2022								
01.04.2022	COAL MILL (B.F.)	0.45	359	15.84	6.99	11.3		0.007	
08.04.2022	COAL MILL (B.F.)	0.45	355	14.02	6.27	7.4	10.4	0.004	
15.04.2022	COAL MILL (B.F.)	0.45	342	13.13	5.72	13.4	10.4	0.007	
29.04.2022	COAL MILL (B.F.)	0.45	347	14.33	6.28	9.5	1	0.005	
	May" 2022								
05.05.2022	COAL MILL (B.F.)	0.45	349	10.39	4.49	16.1		0.006	
10.05.2022	COAL MILL (B.F.)	0.45	352	11.12	4.75	14.4	15.2	0.006	
17.05.2022	COAL MILL (B.F.)	0.45	360	12.07	5.26	19.4	15.3	0.009	
26.05.2022	COAL MILL (B.F.)	0.45	357	11.85	5.09	11.4		0.005	
				•					
	June'' 2022								
07.06.2022	COAL MILL (B.F.)	0.45	358	14.93	6.36	11.2		0.006	
14.06.2022	COAL MILL (B.F.)	0.45	351	14.51	6.14	8.2	11.1	0.004	
20.06.2022	COAL MILL (B.F.)	0.45	346	14.03	5.86	15.5	11.1	0.008	
27.06.2022	COAL MILL (B.F.)	0.45	362	15.15	6.37	9.3		0.005	
	July" 2022								
07.07.2022	COAL MILL (B.F.)	0.45	352	13.32	5.76	9.0		0.004	
13.07.2022	COAL MILL (B.F.)	0.45	344	12.97	5.68	7.6	8.1	0.004	
22.07.2022	COAL MILL (B.F.)	0.45	360	12.79	5.68	9.2	0.1	0.005	
30.07.2022	COAL MILL (B.F.)	0.45	349	12.85	5.65	6.4		0.003	
	August" 2022								
	COAL MILL (B.F.)								
STOP	COAL MILL (B.F.)			STOP			STOP	STOP	
3101	COAL MILL (B.F.)			3101			5101	3101	
	COAL MILL (B.F.)								
	September'' 2022								
STOP	COAL MILL (B.F.)			STOP				STOP	
14.09.2022	COAL MILL (B.F.)	0.45	352	14.15	6.18	13.2	10.7	0.007	
21.09.2022	COAL MILL (B.F.)	0.45	336	14.19	6.26	10.2] 10./	0.006	
30.09.2022	COAL MILL (B.F.)	0.45	344	14.59	6.35	8.8		0.005	

	14 2022										
	April" 2022										
	CEMENT MILL No1 (B.F.)										
STOP	CEMENT MILL No1 (B.F.)			Mill Not i	n operation						
	CEMENT MILL No1 (B.F.)				-						
	CEMENT MILL No1 (B.F.)		1		ı						
	May'' 2022										
	CEMENT MILL No1 (B.F.)										
STOP	CEMENT MILL No1 (B.F.)			Mill Not i	n operation						
5101	CEMENT MILL No1 (B.F.)		The form operation								
	CEMENT MILL No1 (B.F.)										
	June" 2022										
	CEMENT MILL No1 (B.F.)										
STOP	CEMENT MILL No1 (B.F.)			M:11 No.4 :-	n operation						
3101	CEMENT MILL No1 (B.F.)			WIIII NOU	порегация						
	CEMENT MILL No1 (B.F.)										
	July'' 2022										
	CEMENT MILL No1 (B.F.)										
STOP	CEMENT MILL No1 (B.F.)			Mail No.							
STOP	CEMENT MILL No1 (B.F.)			MIII Not I	n operation						
	CEMENT MILL No1 (B.F.)										
	August'' 2022										
	CEMENT MILL No1 (B.F.)				•		•				
	CEMENT MILL No1 (B.F.)										
STOP	CEMENT MILL No1 (B.F.)			Mill Not i	n operation						
	CEMENT MILL No1 (B.F.)										
	September'' 2022										
	CEMENT MILL No1 (B.F.)						1				
	CEMENT MILL No1 (B.F.)	Mill Not in operation									
STOP	CEMENT MILL No1 (B.F.)										
	CEMENT MILL No1 (B.F.)	- 									
	CEMENT MILE NO. 1 (B.1.)							l			

	April'' 2022								
01.04.2022	CEMENT MILL No2 (B. H.)	0.50	345.00	15.90	7.84	18.5		0.013	
10.04.2022	CEMENT MILL No2 (B. H.)	0.50	354.00	16.61	8.14	11.8	1 45.0	0.008	
20.04.2022	CEMENT MILL No2 (B. H.)	0.50	342.00	15.71	7.67	16.7	15.3	0.011	
27.04.2022	CEMENT MILL No2 (B. H.)	0.50	359.00	17.01	8.42	14.0		0.010	
	May" 2022								
06.05.2022	CEMENT MILL No2 (B. H.)	0.50	342	15.22	7.51	15.0		0.008	
14.05.2022	CEMENT MILL No2 (B. H.)	0.50	354	15.53	7.61	7.6	11.4	0.004	
19.05.2022	CEMENT MILL No2 (B. H.)	0.50	345	14.98	7.32	13.1	11.4	0.007	
28.05.2022	CEMENT MILL No2 (B. H.)	0.50	366	14.95	7.23	9.8		0.006	
	June'' 2022								
01.06.2022	CEMENT MILL No2 (B. H.)	0.50	354	15.22	7.51	9.5		0.010	
09.06.2022	CEMENT MILL No2 (B. H.)	0.50	349	15.53	7.61	10.1	10.7	0.007	
17.06.2022	CEMENT MILL No2 (B. H.)	0.50	360	14.98	7.32	15.3	10.7	0.006	
25.06.2022	CEMENT MILL No2 (B. H.)	0.50	362	14.95	7.23	7.8		0.008	
	July'' 2022								
02.07.2022	CEMENT MILL No2 (B. H.)	0.50	359	14.90	7.35	14.0		0.009	
11.07.2022	CEMENT MILL No2 (B. H.)	0.50	362	14.78	7.24	8.1	12.6	0.005	
20.07.2022	CEMENT MILL No2 (B. H.)	0.50	366	15.37	7.48	12.3	12.0	0.008	
29.07.2022	CEMENT MILL No2 (B. H.)	0.50	352	14.39	7.03	16.1		0.010	
	August" 2022								
04.08.2022	CEMENT MILL No2 (B. H.)	0.50	352	15.29	7.54	15.6		0.100	
STOP	CEMENT MILL No2 (B. H.)			STOP		-	13.9	STOP	
STOP	CEMENT MILL No2 (B. H.)			STOP			13.9	STOP	
31.08.2022	CEMENT MILL No2 (B. H.)	0.50	361	15.26	7.43	12.1		0.008	
	September'' 2022								
06.09.2022	CEMENT MILL No2 (B. H.)	0.50	359	15.88	7.83	13.2		0.009	
13.09.2022	CEMENT MILL No2 (B. H.)	0.50	351	15.18	7.44	5.6	0.0	0.004	
19.09.2022	CEMENT MILL No2 (B. H.)	0.50	344	15.25	7.35	12.5	9.8	0.008	
27.09.2022	CEMENT MILL No2 (B. H.)	0.50	356	15.73	7.71	7.8	7	0.005	
41.07.2022	CLIVILIVI WILL IVO2 (D. 11.)	0.30	330	13.73	7.71	7.0	+	0.003	_

	April'' 2022								
05.04.2022	Crusher (B.F.)	0.38	310	13.01	4.75	11.9		0.005	
12.04.2022	Crusher (B.F.)	0.38	315	12.26	4.41	9.4	11.0	0.004	
20.04.2022	Crusher (B.F.)	0.38	322	13.07	4.60	18.7	11.8	0.007	
26.04.2022	Crusher (B.F.)	0.38	313	13.74	4.97	7.1	1	0.003	
	May'' 2022								
06.05.2022	Crusher (B.F.)	0.38	339	12.62	4.22	11.6		0.004	
14.05.2022	Crusher (B.F.)	0.38	342	13.23	4.38	6.9	0.4	0.003	
20.05.2022	Crusher (B.F.)	0.38	330	12.35	4.24	10.6	9.4	0.004	
30.05.2022	Crusher (B.F.)	0.38	335	12.99	4.39	8.5		0.003	
	June'' 2022								
03.06.2022	Crusher (B.F.)	0.38	327	9.42	3.26	16.9		0.005	
10.06.2022	Crusher (B.F.)	0.38	334	9.84	3.34	8.5	13.7	0.002	
18.06.2022	Crusher (B.F.)	0.38	336	9.41	3.17	14.3	13.7	0.004	
24.06.2022	Crusher (B.F.)	0.38	329	10.33	3.56	15.2		0.005	
	July'' 2022								
02.07.2022	Crusher (B.F.)	0.38	334	10.29	3.49	11.6		0.003	
12.07.2022	Crusher (B.F.)	0.38	322	10.46	3.68	9.9	10.9	0.003	
19.07.2022	Crusher (B.F.)	0.38	331	10.12	3.46	14.3	10.5	0.004	
26.07.2022	Crusher (B.F.)	0.38	327	9.87	3.42	7.9		0.002	
	August" 2022								
03.08.2022	Crusher (B.F.)	0.38	329	9.44	3.25	13.3		0.004	
13.08.2022	Crusher (B.F.)	0.38	335	9.86	3.33	8.0	11.8	0.002	
21.08.2022	Crusher (B.F.)	0.38	337	9.42	3.17	12.7	11.0	0.003	
30.08.2022	Crusher (B.F.)	0.38	331	10.36	3.54	10.2		0.003	
<u> </u>	September'' 2022								<u> </u>
STOP	Crusher (B.F.)			0.38				STOP	
12.09.2022	Crusher (B.F.)	0.38	334	10.04	3.40	8.0	8.1	0.002	
19.09.2022	Crusher (B.F.)	0.38	336	10.80	3.64	10.6	0.1	0.003	<u> </u>
26.09.2022	Crusher (B.F.)	0.38	338	11.25	3.77	5.8		0.002	

J.K. Cement WORKS, MANGROL (RAJ) (Unit-2) DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE April'' 2022 - September'' 2022

DATE	NAME OF THE STACK / DUCT ATTECHED WITH UNIT	CROSS SECTIONAL AREA OF	STACK GASES TEMP.	STACK GASES VELOCITY	FLOW OF GASES IN STACK	DUST CONC.	MEAN DUST CONC.	EMISSION RATE	REMARK
	AND MONTH	DUCT (M2)	(°K)	(M / Sec.)	(NM³/Sec.)	(Mg/NM ³)	(Mg/NM ³)	(Ts/DAY)	
	April'' 2022								
07.04.2022	KILN + RAW MILL (B.F.)	14.18	416.00	14.20	198.69	14.8		0.254	
13.04.2022	KILN + RAW MILL (B.F.)	14.18	404.00	14.38	199.88	6.6	9.8	0.114	
20.04.2022	KILN + RAW MILL (B.F.)	14.18	412.00	13.91	189.61	10.4		0.170	
29.04.2022	KILN + RAW MILL (B.F.)	14.18	397.00	13.43	185.46	7.2		0.115	
	May" 2022					+			
02.05.2022	KILN + RAW MILL (B.F.)	14.18	415.00	13.32	186.38	11.7		0.188	
13.05.2022	KILN + RAW MILL (B.F.)	14.18	424.00	14.11	196.13	9.0	10.1	0.153	
23.05.2022	KILN + RAW MILL (B.F.)	14.18	432.00	14.47	196.61	13.6	10.1	0.231	Ī
31.05.2022	KILN + RAW MILL (B.F.)	14.18	419.00	13.74	188.51	6.2		0.101	
	June'' 2022				-		+	+	
02.06.2022	KILN + RAW MILL (B.F.)	14.18	428.00	16.27	227.65	10.1		0.199	
13.06.2022	KILN + RAW MILL (B.F.)	14.18	432.00	16.65	231.44	16.5		0.330	
20.06.2022	KILN + RAW MILL (B.F.)	14.18	420.00	16.22	218.28	17.5	13.2	0.330	
30.06.2022	KILN + RAW MILL (B.F.)	14.18	434.00	17.03	224.88	8.5		0.165	
	July'' 2022								
	KILN + RAW MILL (B.F.)								
STOP	KILN + RAW MILL (B.F.)			STOP			6.2	STOP	
	KILN + RAW MILL (B.F.)						0.2		
27.07.2022	KILN + RAW MILL (B.F.)	14.18	410.00	14.91	203.90	6.2		0.109	
	August" 2022								
01.08.2022	KILN + RAW MILL (B.F.)	14.18	424.0	15.74	215.25	7.4	1	0.138	Ī
08.08.2022	KILN + RAW MILL (B.F.)	14.18	426.0	16.18	222.71	8.0	7.	0.154	Ī
20.08.2022	KILN + RAW MILL (B.F.)	14.18	417.0	15.71	218.37	9.1	7.6	0.172	1
27.08.2022	KILN + RAW MILL (B.F.)	14.18	432.0	16.60	229.99	5.9		0.117	
	September'' 2022								
05.09.2022	KILN + RAW MILL (B.F.)	14.18	426.00	16.28	227.79	12.2	1	0.240	1
13.09.2022	KILN + RAW MILL (B.F.) KILN + RAW MILL (B.F.)	14.18	420.00	15.99	222.26	6.9	\dashv	0.133	1
13.09.2022	KILN + RAW MILL (B.F.) KILN + RAW MILL (B.F.)	14.18	435.00	15.68	215.12	8.7	9.8	0.162	+
30.09.2022	KILN + RAW MILL (B.F.) KILN + RAW MILL (B.F.)	14.18	433.00	15.08	225.37	11.2	\dashv	0.162	+
30.09.2022	KILN + KAW WILL (D.F.)	14.10	439.00	10.46	223.31	11.2		0.218	1

	April'' 2022								
07.04.2022	CLINKER COOLER (ESP)	8.80	391.00	13.88	120.53	17.7		0.184	
13.04.2022	CLINKER COOLER (ESP)	8.80	394.00	14.82	127.84	9.7	1	0.107	
20.04.2022	CLINKER COOLER (ESP)	8.80	382.00	13.98	121.39	13.5	12.4	0.142	
29.04.2022	CLINKER COOLER (ESP)	8.80	385.00	14.90	127.28	8.5	1	0.093	
	May" 2022								
02.05.2022	CLINKER COOLER (ESP)	8.80	390.00	11.64	101.08	11.40		0.100	
13.05.2022	CLINKER COOLER (ESP)	8.80	402.00	12.14	104.72	8.5	10.7	0.077	
23.05.2022	CLINKER COOLER (ESP)	8.80	387.00	11.27	94.73	9.9	10.7	0.081	
31.05.2022	CLINKER COOLER (ESP)	8.80	415.00	12.46	105.74	12.8]	0.117	
	June'' 2022								
02.06.2022	CLINKER COOLER (ESP)	8.80	398.00	15.45	134.16	19.0		0.220	
13.06.2022	CLINKER COOLER (ESP)	8.80	400.00	15.78	136.12	13.1	14.7	0.154	
20.06.2022	CLINKER COOLER (ESP)	8.80	406.00	15.45	128.62	10.7	14.7	0.119	
30.06.2022	CLINKER COOLER (ESP)	8.80	409.00	16.15	131.94	15.9		0.181	
	July" 2022								
CTOD	CLINKER COOLER (ESP)			CTOD				CTOD	
STOP	CLINKER COOLER (ESP) CLINKER COOLER (ESP)		<u> </u>	STOP			11.2	STOP	
	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP)	0.00	200.00		101.22	11.0	11.2		
STOP 27.07.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP)	8.80	388.00	STOP 14.25	121.33	11.2	11.2	STOP 0.020	
	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP)	8.80	388.00		121.33	11.2	11.2		
27.07.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022			14.25			11.2	0.020	
27.07.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP)	8.80	398	14.25	127.99	5.4		0.020	
27.07.2022 01.08.2022 08.08.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP)	8.80 8.80	398 401.00	14.25 14.74 15.00	127.99 129.39	5.4 11.1	8.3	0.020 0.060 0.124	
27.07.2022 01.08.2022 08.08.2022 20.08.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP)	8.80	398	14.25	127.99 129.39 125.40	5.4		0.020 0.060 0.124 0.105	
27.07.2022 01.08.2022 08.08.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP)	8.80 8.80 8.80	398 401.00 406.00	14.25 14.74 15.00 14.68	127.99 129.39	5.4 11.1 9.7		0.020 0.060 0.124	
27.07.2022 01.08.2022 08.08.2022 20.08.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP)	8.80 8.80 8.80	398 401.00 406.00	14.25 14.74 15.00 14.68	127.99 129.39 125.40	5.4 11.1 9.7		0.020 0.060 0.124 0.105	
27.07.2022 01.08.2022 08.08.2022 20.08.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP)	8.80 8.80 8.80	398 401.00 406.00	14.25 14.74 15.00 14.68	127.99 129.39 125.40	5.4 11.1 9.7		0.020 0.060 0.124 0.105	
27.07.2022 01.08.2022 08.08.2022 20.08.2022 27.08.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP) September" 2022	8.80 8.80 8.80 8.80	398 401.00 406.00 409.00	14.25 14.74 15.00 14.68 15.36	127.99 129.39 125.40 132.94	5.4 11.1 9.7 7.0	8.3	0.020 0.060 0.124 0.105 0.080	
27.07.2022 01.08.2022 08.08.2022 20.08.2022 27.08.2022 05.09.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP)	8.80 8.80 8.80 8.80	398 401.00 406.00 409.00 377.00	14.25 14.74 15.00 14.68 15.36	127.99 129.39 125.40 132.94	5.4 11.1 9.7 7.0		0.020 0.060 0.124 0.105 0.080	
27.07.2022 01.08.2022 08.08.2022 20.08.2022 27.08.2022 05.09.2022 13.09.2022	CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) CLINKER COOLER (ESP) August" 2022 CLINKER COOLER (ESP)	8.80 8.80 8.80 8.80 8.80	398 401.00 406.00 409.00 377.00 387.00	14.25 14.74 15.00 14.68 15.36 14.99	127.99 129.39 125.40 132.94 133.38 129.31	5.4 11.1 9.7 7.0 15.6 8.8	8.3	0.020 0.060 0.124 0.105 0.080 0.180 0.098	

	April'' 2022								
05.04.2022	COAL MILL (B.F.)	2.00	341.00	12.45	24.57	19.3		0.041	
13.04.2022	COAL MILL (B.F.)	2.00	347.00	13.22	25.92	10.2	14.7	0.023	
20.04.2022	COAL MILL (B.F.)	2.00	334.00	12.11	23.36	16.7	14.7	0.034	
27.04.2022	COAL MILL (B.F.)	2.00	339.00	11.49	22.02	12.5		0.024	
	May" 2022								
05.05.2022	COAL MILL (B.F.)	2.00	354	10.33	20.39	17.70		0.031	
13.05.2022	COAL MILL (B.F.)	2.00	360.00	9.95	19.51	8.3	12.6	0.014	
20.05.2022	COAL MILL (B.F.)	2.00	367.00	11.66	22.27	13.6	12.0	0.026	
30.05.2022	COAL MILL (B.F.)	2.00	365.00	10.88	20.72	10.6		0.019	
	June'' 2022								
02.06.2022	COAL MILL (B.F.)	2.00	357.00	15.44	30.47	22.6		0.059	
13.06.2022	COAL MILL (B.F.)	2.00	363.00	15.93	31.23	15.2	18.2	0.041	
20.06.2022	COAL MILL (B.F.)	2.00	360.00	15.77	29.37	18.5	10.2	0.047	
30.06.2022	COAL MILL (B.F.)	2.00	367.00	16.27	30.78	16.5		0.044	
	July" 2022								
	COAL MILL (B.F.)								
STOP	COAL MILL (B.F.)			STOP			8.4	STOP	
	COAL MILL (B.F.)					T	1		
27.07.2022	COAL MILL (B.F.)	2.00	357.00	13.91	26.92	8.4		0.020	
	August" 2022								
01.08.2022	COAL MILL (B.F.)	2.00	353.00	14.91	28.76	18.5	4	0.046	
08.08.2022	COAL MILL (B.F.)	2.00	359.00	15.53	30.25	20.3	19.8	0.053	
20.08.2022	COAL MILL (B.F.)	2.00	358.00	15.33	30.05	23.8	_	0.062	
27.08.2022	COAL MILL (B.F.)	2.00	362.00	15.82	31.12	16.5		0.044	
	Sontomboril 2022		+						
05.00.2022	September" 2022	2.00	250.00	16.40	22, 42	111		0.021	
05.09.2022	COAL MILL (B.F.)	2.00	359.00 361.00	16.43 16.23	32.42 31.82	11.1	-	0.031	
	COAL MILL (D.E.)		1 10 1 111	10.23	31.82	8.4	1	0.023	
13.09.2022	COAL MILL (B.F.)	2.00					9.9		
13.09.2022 19.09.2022	COAL MILL (B.F.)	2.00	368.00	16.89	32.68	7.2	9.9	0.020	
13.09.2022							9.9		

	April'' 2022		1						
01.04.2022	CEMENT MILL (B.F.)	6.60	364.00	13.75	89.25	16.1		0.124	
10.04.2022	CEMENT MILL (B.F.)	6.60	356.00	13.34	85.46	9.5	12.2	0.070	
20.04.2022	CEMENT MILL (B.F.)	6.60	347.00	13.81	87.90	12.4	12.2	0.094	
27.04.2022	CEMENT MILL (B.F.)	6.60	360.00	14.31	92.28	10.9		0.087	
	May" 2022								
06.05.2022	CEMENT MILL (B.F.)	6.60	346.00	11.66	73.98	18.5		0.118	
11.05.2022	CEMENT MILL (B.F.)	6.60	337.00	12.00	75.65	9.9	13.7	0.065	
20.05.2022	CEMENT MILL (B.F.)	6.60	340.00	10.99	68.62	14.1	13.7	0.084	
28.05.2022	CEMENT MILL (B.F.)	6.60	351.00	11.46	71.78	12.2		0.076	
	June'' 2022								
06.06.2022	CEMENT MILL (B.F.)	6.60	361.00	13.49	83.96	9.9		0.072	
10.06.2022	CEMENT MILL (B.F.)	6.60	366.00	13.94	87.59	14.1	10.7	0.107	
21.06.2022	CEMENT MILL (B.F.)	6.60	359.00	13.55	83.54	11.5] 10.7	0.083	
27.06.2022		6.60	368.00	14.17	87.92	7.1		0.054	
	July'' 2022								
05.07.2022	CEMENT MILL (B.F.)	6.60	359.00	12.39	80.16	14.3	_	0.099	
14.07.2022	CEMENT MILL (B.F.)	6.60	350.00	11.96	76.87	17.6	11.8	0.117	
20.07.2022	CEMENT MILL (B.F.)	6.60	364.00	12.75	83.04	8.3	_	0.060	
27.07.2022	CEMENT MILL (B.F.)	6.60							
		6.60	356.00	12.45	79.50	7.1		0.049	
	August'' 2022	0.00	356.00	12.45	79.50	7.1		0.049	
02.08.2022	August" 2022								
02.08.2022	CEMENT MILL (B.F.)	6.60	358.00	12.86	82.12	6.8		0.048	
10.08.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.)	6.60 6.60	358.00 364.00	12.86 13.34	82.12 86.59	6.8 11.2	10.4	0.048 0.084	
10.08.2022 19.08.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.)	6.60 6.60 6.60	358.00 364.00 355.00	12.86 13.34 12.96	82.12 86.59 83.85	6.8 11.2 15.3	10.4	0.048 0.084 0.111	
10.08.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.)	6.60 6.60	358.00 364.00	12.86 13.34	82.12 86.59	6.8 11.2	10.4	0.048 0.084	
10.08.2022 19.08.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.)	6.60 6.60 6.60	358.00 364.00 355.00	12.86 13.34 12.96	82.12 86.59 83.85	6.8 11.2 15.3	10.4	0.048 0.084 0.111	
10.08.2022 19.08.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.)	6.60 6.60 6.60	358.00 364.00 355.00	12.86 13.34 12.96	82.12 86.59 83.85	6.8 11.2 15.3	10.4	0.048 0.084 0.111	
10.08.2022 19.08.2022 31.08.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) September" 2022	6.60 6.60 6.60 6.60	358.00 364.00 355.00 362.00	12.86 13.34 12.96 13.61	82.12 86.59 83.85 88.64	6.8 11.2 15.3 8.3		0.048 0.084 0.111 0.064	
10.08.2022 19.08.2022 31.08.2022 03.09.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) September" 2022 CEMENT MILL (B.F.)	6.60 6.60 6.60 6.60	358.00 364.00 355.00 362.00 352.00	12.86 13.34 12.96 13.61	82.12 86.59 83.85 88.64	6.8 11.2 15.3 8.3	9.2	0.048 0.084 0.111 0.064	
10.08.2022 19.08.2022 31.08.2022 03.09.2022 08.09.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) September" 2022 CEMENT MILL (B.F.) CEMENT MILL (B.F.)	6.60 6.60 6.60 6.60 6.60	358.00 364.00 355.00 362.00 352.00 341.00	12.86 13.34 12.96 13.61 13.32 13.40	82.12 86.59 83.85 88.64 85.61 86.41	6.8 11.2 15.3 8.3 8.1 11.8		0.048 0.084 0.111 0.064 0.060 0.088	
10.08.2022 19.08.2022 31.08.2022 03.09.2022 08.09.2022 20.09.2022	CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.) September'' 2022 CEMENT MILL (B.F.) CEMENT MILL (B.F.) CEMENT MILL (B.F.)	6.60 6.60 6.60 6.60 6.60 6.60	358.00 364.00 355.00 362.00 352.00 341.00 354.00	12.86 13.34 12.96 13.61 13.32 13.40 13.56	82.12 86.59 83.85 88.64 85.61 86.41 86.59	6.8 11.2 15.3 8.3 8.1 11.8 10.1		0.048 0.084 0.111 0.064 0.060 0.088 0.076	

1.20 1.20		April'' 2022					I		1 1	
12.04.2022 CRUSHER BAG FILTER 1.23 351.00 14.78 17.82 19.2 15.6 0.030 0.012 18.04.2022 CRUSHER BAG FILTER 1.23 364.00 15.60 18.50 7.4 19.2	07.04.2022	-	1.23	354.00	14.89	18.07	22.3		0.035	
18.04.2022 CRUSHER BAG FILTER 1.23 364.00 15.60 18.50 7.4 15.60 18.50 7.4 19.60		CRUSHER BAG FILTER				17.82		15.6	0.030	
29.04.2022 CRUSHER BAG FILTER 1.23 366.00 15.32 18.41 13.4 0.021		CRUSHER BAG FILTER	1.23	364.00	15.60	18.50		15.6	0.012	
03.05.2022 CRUSHER BAG FILTER 1.23 342 11.82 14.35 17.40 13.6 0.022 14.05.2022 CRUSHER BAG FILTER 1.23 349.00 11.66 14.06 9.6 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.013 13.6 0.013 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 13.6 0.015 0.015 13.6 0.015 0.		CRUSHER BAG FILTER	1.23	366.00	15.32	18.41	13.4		0.021	
03.05.2022 CRUSHER BAG FILTER 1.23 342 11.82 14.35 17.40 13.6 0.0022 14.05.2022 CRUSHER BAG FILTER 1.23 349.00 11.66 14.06 9.6 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.012 13.6 0.013 13.0 13.0 13.0 13.3 14.23 12.0 0.015 13.6 0.015 0.										
14.05.2022 CRUSHER BAG FILTER 1.23 349.00 11.66 14.06 9.6 13.6 0.012		May'' 2022								
21.05.2022 CRUSHER BAG FILTER 1.23 336.00 10.92 12.79 15.4 15.6 0.017	03.05.2022	CRUSHER BAG FILTER	1.23	342	11.82	14.35	17.40		0.022	
21.05,2022 CRUSHER BAG FILTER 1.23 332.00 12.23 14.23 12.0 0.015	14.05.2022	CRUSHER BAG FILTER	1.23	349.00	11.66	14.06	9.6	12.6	0.012	
Stop CRUSHER BAG FILTER 1.23 336.00 13.31 16.15 20.2 14.8 17.8 0.020 0.010 0.0	21.05.2022	CRUSHER BAG FILTER	1.23	336.00	10.92	12.79	15.4] 13.0	0.017	
1.23 336.00 13.31 16.15 20.2 1.06.2022 CRUSHER BAG FILTER 1.23 337.00 12.93 15.59 14.8 17.8 0.020 12.06.2022 CRUSHER BAG FILTER 1.23 331.00 13.44 15.49 23.3 17.8 0.021	27.05.2022	CRUSHER BAG FILTER	1.23	332.00	12.23	14.23	12.0		0.015	
06.06.2022 CRUSHER BAG FILTER 1.23 336.00 13.31 16.15 20.2 11.06.2022 CRUSHER BAG FILTER 1.23 337.00 12.93 15.59 14.8 21.06.2022 CRUSHER BAG FILTER 1.23 331.00 13.44 15.49 23.3 23.3 29.06.2022 CRUSHER BAG FILTER 1.23 345.00 14.10 16.36 12.8										
11.06.2022 CRUSHER BAG FILTER 1.23 327.00 12.93 15.59 14.8 17.8 0.020 0.031 0.03										
21.06.2022 CRUSHER BAG FILTER 1.23 331.00 13.44 15.49 23.3 17.8 0.031 0.018 0.01	06.06.2022	CRUSHER BAG FILTER							0.028	
21.06.2022 CRUSHER BAG FILTER 1.23 331.00 13.44 15.49 23.3 0.031		CRUSHER BAG FILTER						17.8		
STOP CRUSHER BAG FILTER STOP		CRUSHER BAG FILTER						17.0	0.031	
STOP CRUSHER BAG FILTER 1.23 321.00 11.82 14.11 8.2 0.010	29.06.2022	CRUSHER BAG FILTER	1.23	345.00	14.10	16.36	12.8		0.018	
STOP CRUSHER BAG FILTER STOP STOP SEPTEMBER STOP STOP STOP STOP STOP STOP STOP STOP SEPTEMBER STOP		T 1 !! 2022		ļ						
STOP CRUSHER BAG FILTER CRUSHER BAG FILTER 1.23 321.00 11.82 14.11 8.2 0.010		•								
CRUSHER BAG FILTER 1.23 321.00 11.82 14.11 8.2 0.010	СТОР				CTOD				CTOD	
30.07.2022 CRUSHER BAG FILTER 1.23 321.00 11.82 14.11 8.2 0.010	STOP				STOP			8.2	STOP	
August" 2022 CRUSHER BAG FILTER 1.23 330 12.60 15.09 12.20 13.08.2022 CRUSHER BAG FILTER 1.23 326.00 12.32 14.61 9.3 10.8 10.8 10.8 10.8 10.8 10.8 10.9 10	20.07.2022		1.22	221.00	11.00	14.11	0.2		0.010	
04,08.2022 CRUSHER BAG FILTER 1.23 330 12.60 15.09 12.20 0.016 0.012 13.08.2022 CRUSHER BAG FILTER 1.23 326.00 12.32 14.61 9.3 0.012 0.012 STOP STOP STOP STOP STOP STOP 0.017 0.017 0.017 0.017 0.011 0.011 0.011 0.011 0.011 0.011 0.024 <td< td=""><td>30.07.2022</td><td>CRUSHER BAG FILTER</td><td>1.23</td><td>321.00</td><td>11.82</td><td>14.11</td><td>8.2</td><td></td><td>0.010</td><td></td></td<>	30.07.2022	CRUSHER BAG FILTER	1.23	321.00	11.82	14.11	8.2		0.010	
04,08.2022 CRUSHER BAG FILTER 1.23 330 12.60 15.09 12.20 0.016 0.012 13.08.2022 CRUSHER BAG FILTER 1.23 326.00 12.32 14.61 9.3 0.012 0.012 STOP STOP STOP STOP STOP STOP 0.017 0.017 0.017 0.017 0.011 0.011 0.011 0.011 0.011 0.011 0.024 <td< td=""><td></td><td>August'' 2022</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		August'' 2022								
13.08.2022 CRUSHER BAG FILTER 1.23 326.00 12.32 14.61 9.3 10.8 10.8	04 08 2022		1.23	330	12.60	15.09	12.20		0.016	
STOP STOP STOP STOP STOP STOP STOP STOP								1		
CRUSHER BAG FILTER								10.8		
02.09.2022 CRUSHER BAG FILTER 1.23 351.00 15.45 18.75 10.8 13.09.2022 CRUSHER BAG FILTER 1.23 346.00 14.63 17.64 7.2 20.09.2022 CRUSHER BAG FILTER 1.23 361.00 14.19 16.78 16.8	STOP				STOP				STOP	
02.09.2022 CRUSHER BAG FILTER 1.23 351.00 15.45 18.75 10.8 13.09.2022 CRUSHER BAG FILTER 1.23 346.00 14.63 17.64 7.2 20.09.2022 CRUSHER BAG FILTER 1.23 361.00 14.19 16.78 16.8										
13.09.2022 CRUSHER BAG FILTER 1.23 346.00 14.63 17.64 7.2 20.09.2022 CRUSHER BAG FILTER 1.23 361.00 14.19 16.78 16.8		September'' 2022			·					
20.09.2022 CRUSHER BAG FILTER 1.23 361.00 14.19 16.78 16.8 10.024	02.09.2022	CRUSHER BAG FILTER	1.23	351.00	15.45	18.75	10.8		0.017	
20.09.2022 CRUSHER BAG FILTER 1.23 361.00 14.19 16.78 16.8 0.024	13.09.2022	CRUSHER BAG FILTER	1.23	346.00	14.63	17.64	7.2	11.6	0.011	
28.09.2022 CRUSHER BAG FILTER 1.23 364.00 14.63 17.19 11.5 0.017	20.09.2022	CRUSHER BAG FILTER	1.23	361.00	14.19	16.78	16.8] 11.0	0.024	
	28.09.2022	CRUSHER BAG FILTER	1.23	364.00	14.63	17.19	11.5		0.017	

	April'' 2022					1		1 I	
01.04.2022	PACKER -1 BAG FILTER	0.79	328.00	9.76	7.54	21.0		0.014	
09.04.2022	PACKER -1 BAG FILTER	0.79	334.00	8.96	6.87	10.8	12.1	0.006	
19.04.2022	PACKER -1 BAG FILTER	0.79	322.00	10.16	7.74	7.4	13.1	0.005	
26.04.2022	PACKER -1 BAG FILTER	0.79	336.00	9.54	7.34	13.1	1	0.008	
	May" 2022								
04.05.2022	PACKER -1 BAG FILTER	0.79	339.00	11.99	9.11	14.8		0.012	
10.05.2022	PACKER -1 BAG FILTER	0.79	345.00	12.36	9.27	7.9	10.9	0.006	
19.05.2022	PACKER -1 BAG FILTER	0.79	337.00	12.83	9.53	10.9	10.9	0.009	
30.05.2022	PACKER -1 BAG FILTER	0.79	350.00	13.28	9.93	9.9		0.008	
	June'' 2022								<u> </u>
02.06.2022	PACKER -1 BAG FILTER	0.79	337.00	12.88	9.60	19.3		0.016	
10.06.2022	PACKER -1 BAG FILTER	0.79	336.00	13.01	9.54	11.4	14.2	0.009	
21.06.2022	PACKER -1 BAG FILTER	0.79	334.00	13.22	9.76	10.2	14.2	0.009	I
29.06.2022	PACKER -1 BAG FILTER	0.79	345.00	13.68	10.13	16.0		0.014	<u> </u>
									<u> </u>
	July'' 2022								<u> </u>
05.07.2022	PACKER -1 BAG FILTER	0.79	324.00	11.82	9.01	6.9	_	0.005	<u> </u>
11.07.2022	PACKER -1 BAG FILTER	0.79	329.00	11.43	8.77	8.7	7.3	0.007	<u> </u>
21.07.2022	PACKER -1 BAG FILTER	0.79	334.00	11.90	9.10	5.8		0.005	<u> </u>
28.07.20222	PACKER -1 BAG FILTER	0.79	326.00	11.27	8.56	7.9		0.006	
									
	August" 2022								
03.08.2022	PACKER -1 BAG FILTER	0.79	328.00	12.36	9.39	7.4	4	0.006	
09.08.2022	PACKER -1 BAG FILTER	0.79	327.00	12.29	9.40	8.6	8.1	0.007	
15.08.2022	PACKER -1 BAG FILTER	0.79	325.00	12.50	9.46	10.2	4	0.008	1
26.08.2022	PACKER -1 BAG FILTER	0.79	337.00	12.98	10.02	6.2		0.005	
	Santambarii 2022								
06.00.2022	September" 2022	0.70	220.00	11.40	8.76	14.2		0.011	
06.09.2022	PACKER -1 BAG FILTER	0.79	339.00 331.00	11.49 11.90	9.19	9.2	4		<u> </u>
12.09.2022 19.09.2022	PACKER -1 BAG FILTER PACKER -1 BAG FILTER	0.79	335.00		8.59	10.9	11.1	0.007	
29.09.2022	PACKER -1 BAG FILTER PACKER -1 BAG FILTER	0.79	333.00	11.20 11.61	8.59 8.76	10.9	4	0.008	
29.09.2022	PACKER -I BAU FILIER	0.79	333.00	11.01	8.70	10.2		0.008	
		1			I	I			1

	April'' 2022							1 -	
01.04.2022	PACKER -2 BAG FILTER	0.79	325.00	11.63	8.95	19.2		0.015	
09.04.2022	PACKER -2 BAG FILTER	0.79	332.00	11.15	8.52	10.8	1	0.008	
19.04.2022	PACKER -2 BAG FILTER	0.79	323.00	11.33	8.58	16.6	15.3	0.012	
26.04.2022	PACKER -2 BAG FILTER	0.79	337.00	12.27	9.47	14.7	1	0.012	
•	May'' 2022								
04.05.2022	PACKER -2 BAG FILTER	0.79	341.00	10.94	8.26	17.9		0.013	
10.05.2022	PACKER -2 BAG FILTER	0.79	345.00	11.53	8.62	9.1	12.7	0.007	
19.05.2022	PACKER -2 BAG FILTER	0.79	350.00	12.18	9.07	13.4	12.7	0.011	
30.05.2022	PACKER -2 BAG FILTER	0.79	354.00	12.03	9.02	10.5	1	0.008	
	June'' 2022								
02.06.2022	PACKER -2 BAG FILTER	0.79	332.00	12.54	9.28	8.6		0.007	
10.06.2022	PACKER -2 BAG FILTER	0.79	336.00	12.81	9.36	13.1	11.9	0.011	
21.06.2022	PACKER -2 BAG FILTER	0.79	340.00	12.43	9.14	15.9	11.7	0.013	
29.06.2022	PACKER -2 BAG FILTER	0.79	346.00	13.16	9.71	10.0		0.008	
	July" 2022								
06.07.2022	PACKER -2 BAG FILTER	0.79	334.00	12.06	9.10	9.6		0.008	
14.07.2022	PACKER -2 BAG FILTER	0.79	339.00	12.62	9.55	10.2	8.6	0.008	
19.07.2022	PACKER -2 BAG FILTER	0.79	343.00	13.10	9.98	5.4		0.005	
28.07.2022	PACKER -2 BAG FILTER	0.79	335.00	12.23	9.17	9.2		0.007	
	August" 2022								
04 08 2022	August'' 2022 PACKER -2 BAG FILTER	0.79	332.00	12.59	9.53	6.8		0.006	
04.08.2022	PACKER -2 BAG FILTER	0.79	332.00 337.00	12.59 12.98	9.53 9.76	6.8		0.006	
09.08.2022	PACKER -2 BAG FILTER PACKER -2 BAG FILTER	0.79	337.00	12.98	9.76	12.9	9.1	0.011	
	PACKER -2 BAG FILTER	0.79 0.79	337.00 340.00	12.98 12.58	9.76 9.43	12.9 9.4	9.1	0.011 0.008	
09.08.2022 20.08.2022	PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER	0.79	337.00	12.98	9.76	12.9	9.1	0.011	
09.08.2022 20.08.2022	PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER	0.79 0.79	337.00 340.00	12.98 12.58	9.76 9.43	12.9 9.4	9.1	0.011 0.008	
09.08.2022 20.08.2022	PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER	0.79 0.79	337.00 340.00	12.98 12.58	9.76 9.43	12.9 9.4	9.1	0.011 0.008	
09.08.2022 20.08.2022 26.09.2022	PACKER -2 BAG FILTER September'' 2022	0.79 0.79 0.79	337.00 340.00 347.00	12.98 12.58 13.32	9.76 9.43 10.25	12.9 9.4 7.4		0.011 0.008 0.007	
09.08.2022 20.08.2022 26.09.2022 05.09.2022	PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER September'' 2022 PACKER -2 BAG FILTER	0.79 0.79 0.79 0.79	337.00 340.00 347.00 331.00	12.98 12.58 13.32	9.76 9.43 10.25	12.9 9.4 7.4	7.4	0.011 0.008 0.007	
09.08.2022 20.08.2022 26.09.2022 05.09.2022 14.09.2022	PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER PACKER -2 BAG FILTER September'' 2022 PACKER -2 BAG FILTER PACKER -2 BAG FILTER	0.79 0.79 0.79 0.79	337.00 340.00 347.00 331.00 326.00	12.98 12.58 13.32 13.40 13.15	9.76 9.43 10.25 10.18 9.89	9.6 6.2		0.011 0.008 0.007 0.008 0.005	

	April'' 2022								
01.04.2022	PACKER -3 BAG FILTER	0.79	342.00	13.81	10.52	16.2		0.015	
09.04.2022	PACKER -3 BAG FILTER	0.79	334.00	13.31	10.11	8.7	12.2	0.008	
19.04.2022	PACKER -3 BAG FILTER	0.79	329.00	13.91	10.53	13.4	12.3	0.012	
26.04.2022	PACKER -3 BAG FILTER	0.79	339.00	14.26	10.97	10.8		0.010	
	May'' 2022								
04.05.2022	PACKER -3 BAG FILTER	0.79	344.00	10.93	8.27	21.0		0.015	
10.05.2022	PACKER -3 BAG FILTER	0.79	350.00	11.39	8.57	10.5	15.6	0.008	
19.05.2022	PACKER -3 BAG FILTER	0.79	341.00	11.06	8.27	17.3	13.0	0.012	
30.05.2022	PACKER -3 BAG FILTER	0.79	354.00	11.86	8.81	13.5		0.010	
	June'' 2022								
02.06.2022		0.70	220.00	12.67	0.25	10.4		0.016	
02.06.2022	PACKER -3 BAG FILTER PACKER -3 BAG FILTER	0.79	339.00	12.67	9.35	19.4	4	0.016	
10.06.2022		0.79	334.00	12.83	9.56	11.9	13.4	0.010	
21.06.2022	PACKER -3 BAG FILTER	0.79	337.00	12.58	9.17	14.0	_	0.011	
29.06.2022	PACKER -3 BAG FILTER	0.79	345.00	13.24	9.80	8.1		0.007	
	July" 2022								
06.07.2022	PACKER -3 BAG FILTER	0.79	331.00	11.13	8.51	12.2		0.009	
13.07.2022	PACKER -3 BAG FILTER	0.79	327.00	11.40	8.77	9.1		0.007	
18.07.2022	PACKER -3 BAG FILTER	0.79	335.00	12.44	9.60	7.8	9.9	0.006	
28.07.2022	PACKER -3 BAG FILTER	0.79	329.00	11.81	8.97	10.5		0.008	
	August" 2022								
05.08.2022	PACKER -3 BAG FILTER	0.79	332.00	11.97	9.06	9.6		0.008	
09.08.2022	PACKER -3 BAG FILTER	0.79	328.00	12.16	9.36	14.2	10.4	0.011	
20.08.2022	PACKER -3 BAG FILTER	0.79	327.00	11.93	9.12	11.0	10.4	0.009	
26.09.2022	PACKER -3 BAG FILTER	0.79	334.00	12.47	9.63	6.7		0.006	
	September'' 2022								
05.09.2022	PACKER -3 BAG FILTER	0.79	331.00	11.90	9.13	10.1		0.008	
14.09.2022	PACKER -3 BAG FILTER PACKER -3 BAG FILTER	0.79	337.00	12.58	9.13	4.6	1	0.008	
19.09.2022	PACKER -3 BAG FILTER PACKER -3 BAG FILTER	0.79	328.00	12.36	9.76	7.7	7.2	0.004	
26.09.2022	PACKER -3 BAG FILTER PACKER -3 BAG FILTER	0.79		12.81	9.76	6.2	1	0.005	
ZD U9 ZUZZ	PACKER - 3 BAU FILIER	0.79	326.00	12.21	9.44	0.2	I	0.005	

	April'' 2022								
01.04.2022	PACKER -4 BAG FILTER	0.79	344.00	13.90	10.63	18.5		0.017	
09.04.2022	PACKER -4 BAG FILTER	0.79	331.00	14.04	10.63	11.6	1	0.011	
19.04.2022	PACKER -4 BAG FILTER	0.79	339.00	14.79	11.38	15.1	14.6	0.015	
26.04.2022	PACKER -4 BAG FILTER	0.79	348.00	14.49	11.04	13.0	1	0.012	
	May" 2022								
04.05.2022	PACKER -4 BAG FILTER	0.79	344.00	12.71	9.56	17.3		0.014	
10.05.2022	PACKER -4 BAG FILTER	0.79	336.00	12.66	9.40	8.1	15.3	0.007	
19.05.2022	PACKER -4 BAG FILTER	0.79	352.00	12.65	9.58	14.8	15.5	0.012	
30.05.2022	PACKER -4 BAG FILTER	0.79	341.00	12.55	9.41	20.8		0.017	
	June'' 2022								
04.06.2022	PACKER -4 BAG FILTER	0.79	336.00	12.61	9.39	11.4		0.009	
09.06.2022	PACKER -4 BAG FILTER	0.79	340.00	12.94	9.58	7.7	10.5	0.006	
18.06.2022	PACKER -4 BAG FILTER	0.79	332.00	13.18	9.73	9.9	10.5	0.008	
27.06.2022	PACKER -4 BAG FILTER	0.79	344.00	13.66	9.99	13.0	1	0.011	
	July" 2022								
04.07.2022	PACKER -4 BAG FILTER	0.79	331.00	12.47	9.56	10.5	4	0.009	
13.07.2022	PACKER -4 BAG FILTER	0.79	334.00	12.78	9.77	8.7	7.9	0.007	
21.07.2022	PACKER -4 BAG FILTER	0.79	336.00	12.46	9.59	6.9	4	0.006	
27.07.2022	PACKER -4 BAG FILTER	0.79	333.00	12.61	9.61	5.5		0.005	
	August" 2022								
05.08.2022	PACKER -4 BAG FILTER	0.79	325.00	11.89	9.09	10.2		0.008	
12.08.2022	PACKER -4 BAG FILTER	0.79	329.00	12.07	9.14	5.9	†	0.005	
20.08.2022	PACKER -4 BAG FILTER	0.79	324.00	12.39	9.53	7.4	8.0	0.006	
30.08.2022	PACKER -4 BAG FILTER	0.79	334.00	12.78	9.93	8.5	†	0.007	
30.00.2022		0.77	22	120	7.75	5.5		0.007	
	September'' 2022						1		
			244.00	12.24	9.36	12.4		0.010	
06.09.2022	PACKER -4 BAG FILTER	0.79	344.00	12.27				0.010	
06.09.2022 14.09.2022	PACKER -4 BAG FILTER PACKER -4 BAG FILTER	0.79	336.00	11.83	8.96	7.6	11.4	0.006	
							11.4		
14.09.2022	PACKER -4 BAG FILTER	0.79	336.00	11.83	8.96	7.6	11.4	0.006	

J.K. Cement WORKS, MANGROL (RAJ) (Unit-3) DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE April'' 2022 - September'' 2022

DATE	NAME OF THE STACK / DUCT ATTECHED WITH UNIT AND MONTH	CROSS SECTIONAL AREA OF DUCT (M2)	STACK GASES TEMP. (°K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM ³ /Sec.)	DUST CONC. (Mg/NM³)	MEAN DUST CONC. (Mg/NM³)	EMISSION RATE (Ts/DAY)	REMARK
	April'' 2022	DOCT (WZ)	(K)	(IVI / Sec.)	(IVIVI / Sec.)	(IVIS/IVIVI)	(IVIB/IVIVI)	(IS/DAT)	
05.04.2022	KILN No.3 BAG HOUSE	12.56	424	11.38	100.46	16.1		0.140	
13.04.2022	KILN No.3 BAG HOUSE	12.56	407	10.57	97.20	11.1	12.6	0.093	
GTOP.	KILN No.3 BAG HOUSE		-	OTOD	1	1	13.6	CTOD	
STOP	KILN No.3 BAG HOUSE			STOP				STOP	
	May'' 2022								
06.05.2022	KILN No.3 BAG HOUSE	12.56	424	12.22	107.87	17.8		0.166	
13.05.2022	KILN No.3 BAG HOUSE	12.56	415	11.47	103.45	15.2	15.2	0.136	
21.05.2022	KILN No.3 BAG HOUSE	12.56	429	10.70	93.35	14.5	15.2	0.117	
30.05.2022	KILN No.3 BAG HOUSE	12.56	420	11.96	106.58	13.1		0.121	
	June'' 2022								
01.06.2022	KILN No.3 BAG HOUSE	12.56	425	14.73	129.72	16.7		0.187	
08.06.2022	KILN No.3 BAG HOUSE	12.56	396	14.49	136.96	7.9	11.7	0.093	
21.06.2022	KILN No.3 BAG HOUSE	12.56	420	14.48	129.04	14.1	11.7	0.157	
28.06.2022	KILN No.3 BAG HOUSE	12.56	432	15.51	134.38	8.1		0.094	
	July'' 2022								
05.07.2022	KILN No.3 BAG HOUSE	12.56	420	14.42	128.51	9.8		0.109	
12.07.2022	KILN No.3 BAG HOUSE	12.56	424	14.94	131.88	6.4	8.9	0.073	
20.07.2022	KILN No.3 BAG HOUSE	12.56	430	15.32	133.35	11.2		0.129	
25.07.2022	KILN No.3 BAG HOUSE	12.56	415	15.57	140.43	8.1		0.098	
	August'' 2022								
01.08.2022	KILN No.3 BAG HOUSE	12.56	416	14.58	131.18	8.4		0.095	
12.08.2022	KILN No.3 BAG HOUSE	12.56	390	14.38	138.01	5.0	7.0	0.060	
18.08.2022	KILN No.3 BAG HOUSE	12.56	412	14.34	130.27	7.6	7.0	0.086	
STOP	KILN No.3 BAG HOUSE			STOP				STOP	

0 1 00 2022	September" 2022	10.56	407	14.62	124.54	11.0		0.120	
06.09.2022	KILN No.3 BAG HOUSE	12.56	407	14.63	134.54	11.2		0.130	
12.09.2022	KILN No.3 BAG HOUSE	12.56	395	14.73	139.58	7.9	9.4	0.095	
20.09.2022	KILN No.3 BAG HOUSE	12.56	414	15.40	139.23	9.7		0.117	
30.09.2022	KILN No.3 BAG HOUSE	12.56	402	14.27	132.86	8.7		0.100	
	April'' 2022								
05.04.2022	CLINKER COOLER (ESP)-3	9.61	392	12.07	112.96	15.3		0.149	
13.04.2022	CLINKER COOLER (ESP)-3	9.61	381	12.26	113.62	13.9	14.6	0.136	
STOP	CLINKER COOLER (ESP)-3		•	STOP	•	•	14.0	STOP	
3101	CLINKER COOLER (ESP)-3			3101				STOP	
0.5.05.2025	May" 2022	0.51	22.1	12.00	11110	1		0.170	
06.05.2022	CLINKER COOLER (ESP)-3	9.61	394	12.03	111.13	15.6	1	0.150	
13.05.2022	CLINKER COOLER (ESP)-3	9.61	380	10.43	95.73	19.4	16.7	0.160	
21.05.2022	CLINKER COOLER (ESP)-3	9.61	410	11.88	108.01	17.6		0.164	
30.05.2022	CLINKER COOLER (ESP)-3	9.61	405	12.33	112.81	14.1		0.137	
	June'' 2022								
01.06.2022	CLINKER COOLER (ESP)-3	9.61	401	12.58	114.37	14.0		0.138	
08.06.2022	CLINKER COOLER (ESP)-3	9.61	404	12.44	111.33	8.8	12.0	0.085	
21.06.2022	CLINKER COOLER (ESP)-3	9.61	399	12.97	117.17	16.0	12.8	0.162	
28.06.2022	CLINKER COOLER (ESP)-3	9.61	411	13.40	120.30	12.5		0.130	
0.5.05.000	July" 2022	0.44	20.5	40.04				0.004	
05.07.2022	CLINKER COOLER (ESP)-3	9.61	395	13.31	124.57	7.8		0.084	
12.07.2022	CLINKER COOLER (ESP)-3	9.61	400	13.80	128.73	10.3	9.9	0.115	
20.07.2022	CLINKER COOLER (ESP)-3	9.61	396	12.92	121.71	12.7		0.134	
25.07.2022	CLINKER COOLER (ESP)-3	9.61	404	13.29	122.38	8.6		0.091	
	August'' 2022								
01.08.2022	CLINKER COOLER (ESP)-3	9.61	402	12.60	117.92	10.8		0.110	
12.08.2022	CLINKER COOLER (ESP)-3	9.61	405	12.39	115.58	9.1		0.091	
18.08.2022	CLINKER COOLER (ESP)-3	9.61	400	12.99	122.77	4.8	8.2	0.051	
STOP	CLINKER COOLER (ESP)-3		<u> </u>	STOP	1	<u>l</u>	1	STOP	
	September'' 2022								
06.09.2022	CLINKER COOLER (ESP)-3	9.61	382	12.46	115.48	12.6	1	0.126	
12.09.2022	CLINKER COOLER (ESP)-3	9.61	387	12.05	113.51	7.0	10.4	0.069	
20.09.2022	CLINKER COOLER (ESP)-3	9.61	365	12.91	122.02	11.2		0.118	
30.09.2022	CLINKER COOLER (ESP)-3	9.61	375	12.75	118.94	10.6		0.109	

	April'' 2022								
05.04.2022	COAL MILL - 3 BAG HOUSE	3.94	338	11.47	44.15	9.4		0.036	
13.04.2022	COAL MILL - 3 BAG HOUSE	3.94	343	11.78	45.65	12.8	111	0.050	
CTOD	COAL MILL - 3 BAG HOUSE		•	CTOD		•	11.1	CTOD	
STOP	COAL MILL - 3 BAG HOUSE		т	STOP	T	Г		STOP	
	May" 2022								
06.05.2022	COAL MILL - 3 BAG HOUSE	3.94	351	9.62	36.55	17.1		0.054	
13.05.2022	COAL MILL - 3 BAG HOUSE	3.94	364	8.90	33.39	7.9	12.3	0.023	
21.05.2022	COAL MILL - 3 BAG HOUSE	3.94	355	9.24	34.55	10.1	12.3	0.030	
30.05.2022	COAL MILL - 3 BAG HOUSE	3.94	362	10.11	38.05	13.9		0.046	
	June'' 2022								
04.06.2022	COAL MILL - 3 BAG HOUSE	3.94	340	9.60	35.45	15.6		0.048	
13.06.2022	COAL MILL - 3 BAG HOUSE	3.94	347	10.42	39.09	7.2	11.2	0.024	
20.06.2022	COAL MILL - 3 BAG HOUSE	3.94	336	9.74	36.19	12.2	11,2	0.038	
29.08.2022	COAL MILL - 3 BAG HOUSE	3.94	351	10.74	39.41	9.7		0.033	
	July" 2022								
05.07.2022	COAL MILL - 3 BAG HOUSE	3.94	335	9.66	37.07	13.1		0.042	
12.07.2022	COAL MILL - 3 BAG HOUSE	3.94	342	9.00	34.42	8.8	10.2	0.026	
20.07.2022	COAL MILL - 3 BAG HOUSE	3.94	348	9.57	37.08	7.9	10.2	0.025	
25.07.2022	COAL MILL - 3 BAG HOUSE	3.94	339	9.92	37.69	11.1		0.036	
	August" 2022								
01.08.2022	COAL MILL - 3 BAG HOUSE	3.94	328	9.50	36.33	10.2		0.032	
12.08.2022	COAL MILL - 3 BAG HOUSE	3.94	334	10.16	39.37	8.7	7.9	0.030	
18.08.2022	COAL MILL - 3 BAG HOUSE	3.94	325	9.71	37.50	4.8	1.5	0.016	
STOP	COAL MILL - 3 BAG HOUSE		T	STOP	T	T		STOP	
	September'' 2022								
06.09.2022	COAL MILL - 3 BAG HOUSE	3.94	334	10.47	40.31	19.9		0.069	
12.09.2022	COAL MILL - 3 BAG HOUSE	3.94	326	9.60	36.84	14.8	13.6	0.047	
20.09.2022	COAL MILL - 3 BAG HOUSE	3.94	342	10.78	41.77	12.0	10.0	0.043	
30.09.2022	COAL MILL - 3 BAG HOUSE	3.94	327	10.06	38.23	7.8		0.026	1

April'' 2022								
CEMENT MILL No 4 BAG HOUSE	6.15	374	11.08	66.80	19.7		0.114	
CEMENT MILL No 4 BAG HOUSE	6.15	384	10.70	63.88	10.0	1	0.055	
CEMENT MILL No 4 BAG HOUSE	6.15	370	11.15	66.13	13.0	12.7	0.074	
CEMENT MILL No 4 BAG HOUSE	6.15	391	11.71	70.36	8.1		0.049	
May!! 2022								
CEMENT MILL No 4 BAG HOUSE	6.15	354	9.80	57.94	13.6		0.068	
CEMENT MILL No 4 BAG HOUSE	6.15	346	8.77	51.02	6.7		0.030	
CEMENT MILL No 4 BAG HOUSE	6.15	360	9.60	56.57	8.9	9.9	0.044	
CEMENT MILL No 4 BAG HOUSE	6.15	337	9.76	57.89	10.3		0.052	
June" 2022								
CEMENT MILL No 4 BAG HOUSE	6.15	377	9.75	56.73	18.0		0.088	
CEMENT MILL No 4 BAG HOUSE	6.15	387	9.51	54.64	11.0	100	0.052	
CEMENT MILL No 4 BAG HOUSE	6.15	385	10.29	59.49	12.6	12.3	0.065	
CEMENT MILL No 4 BAG HOUSE	6.15	391	10.72	62.57	7.4		0.040	
July" 2022								
CEMENT MILL No 4 BAG HOUSE	6.15	377	9.52	56.83	12.8		0.063	
CEMENT MILL No 4 BAG HOUSE	6.15	372	10.05	59.41	9.7	1	0.050	
CEMENT MILL No 4 BAG HOUSE	6.15	390	10.06	60.85	11.5	12.2	0.060	
CEMENT MILL No 4 BAG HOUSE	6.15	381	10.92	64.56	14.8		0.083	
August'' 2022								
CEMENT MILL No 4 BAG HOUSE	6.15	382	9.89	59.43	15.5		0.080	
CEMENT MILL No 4 BAG HOUSE			STOP			13.4	STOP	
CEMENT MILL No 4 BAG HOUSE			5101			13.4	5101	
CEMENT MILL No 4 BAG HOUSE	6.15	392	10.74	65.18	11.3		0.064	
G . 1 11 2000								
*	6 15	275	11.10	66.05	14.4		0.092	
CEMENT MILL No 4 BAG HOUSE	6.15	379	10.14	61.13	12.4	-	0.082	
CEMENT MILL NO 4 DAG NOUSE	0.13	319				11.7		
CEMENT MILL No. 4 DAC HOUSE	6.15	367	11 42					
CEMENT MILL No 4 BAG HOUSE CEMENT MILL No 4 BAG HOUSE	6.15 6.15	367 387	11.42	69.07 68.08	8.1	-	0.048	
	CEMENT MILL No4 BAG HOUSE May" 2022 CEMENT MILL No4 BAG HOUSE	CEMENT MILL No4 BAG HOUSE 6.15 May" 2022 CEMENT MILL No4 BAG HOUSE 6.15 June" 2022 CEMENT MILL No4 BAG HOUSE 6.15 CEMENT MILL No4 BAG HOUSE 6.15	CEMENT MILL No4 BAG HOUSE CEMENT	CEMENT MILL No4 BAG HOUSE 6.15 374 11.08 CEMENT MILL No4 BAG HOUSE 6.15 384 10.70 CEMENT MILL No4 BAG HOUSE 6.15 370 11.15 CEMENT MILL No4 BAG HOUSE 6.15 370 11.15 CEMENT MILL No4 BAG HOUSE 6.15 391 11.71 May" 2022 CEMENT MILL No4 BAG HOUSE 6.15 354 9.80 CEMENT MILL No4 BAG HOUSE 6.15 360 9.60 CEMENT MILL No4 BAG HOUSE 6.15 337 9.76 June" 2022 CEMENT MILL No4 BAG HOUSE 6.15 337 9.76 June" 2022 CEMENT MILL No4 BAG HOUSE 6.15 387 9.51 CEMENT MILL No4 BAG HOUSE 6.15 385 10.29 CEMENT MILL No4 BAG HOUSE 6.15 391 10.72 July" 2022 CEMENT MILL No4 BAG HOUSE 6.15 377 9.52 CEMENT MILL No4 BAG HOUSE 6.15 372 10.05 CEMENT MILL No4 BAG HOUSE 6.15 390 10.06 CEMENT MILL No4 BAG HOUSE 6.15 381 10.92 August" 2022 CEMENT MILL No4 BAG HOUSE 6.15 382 9.89 CEMENT MILL No4 BAG HOUSE 6.15 382 9.89 CEMENT MILL No4 BAG HOUSE 6.15 392 10.74 September" 2022 CEMENT MILL No4 BAG HOUSE 6.15 392 10.74	CEMENT MILL No4 BAG HOUSE 6.15 374 11.08 66.80 CEMENT MILL No4 BAG HOUSE 6.15 384 10.70 63.88 CEMENT MILL No4 BAG HOUSE 6.15 370 11.15 66.13 CEMENT MILL No4 BAG HOUSE 6.15 370 11.15 66.13 CEMENT MILL No4 BAG HOUSE 6.15 391 11.71 70.36 May" 2022 CEMENT MILL No4 BAG HOUSE 6.15 354 9.80 57.94 CEMENT MILL No4 BAG HOUSE 6.15 360 9.60 56.57 CEMENT MILL No4 BAG HOUSE 6.15 337 9.76 57.89 June" 2022 CEMENT MILL No4 BAG HOUSE 6.15 377 9.75 56.73 CEMENT MILL No4 BAG HOUSE 6.15 387 9.51 54.64 CEMENT MILL No4 BAG HOUSE 6.15 385 10.29 59.49 CEMENT MILL No4 BAG HOUSE 6.15 391 10.72 62.57 July" 2022 CEMENT MILL No4 BAG HOUSE 6.15 377 9.52 56.83 CEMENT MILL No4 BAG HOUSE 6.15 377 9.52 56.83 CEMENT MILL No4 BAG HOUSE 6.15 377 9.52 56.83 CEMENT MILL No4 BAG HOUSE 6.15 372 10.05 59.41 CEMENT MILL No4 BAG HOUSE 6.15 389 10.06 60.85 CEMENT MILL No4 BAG HOUSE 6.15 390 10.06 60.85 CEMENT MILL No4 BAG HOUSE 6.15 381 10.92 64.56 August" 2022 CEMENT MILL No4 BAG HOUSE 6.15 382 9.89 59.43 CEMENT MILL No4 BAG HOUSE 6.15 382 9.89 59.43 CEMENT MILL No4 BAG HOUSE 6.15 382 9.89 59.43 CEMENT MILL No4 BAG HOUSE 6.15 382 9.89 59.43 CEMENT MILL No4 BAG HOUSE 6.15 382 9.89 59.43 CEMENT MILL No4 BAG HOUSE 6.15 392 10.74 65.18 September" 2022 CEMENT MILL No4 BAG HOUSE 6.15 392 10.74 65.18 September" 2022 CEMENT MILL No4 BAG HOUSE 6.15 392 10.74 65.18	CEMENT MILL No4 BAG HOUSE 6.15 374 11.08 66.80 19.7	CEMENT MILL No4 BAG HOUSE 6.15 374 11.08 66.80 19.7	CEMENT MILL No4 BAG HOUSE 6.15 374 11.08 66.80 19.7 0.055

J.K. Cement WORKS, Mangrol (RAJ)

25 MW THERMAL POWER PLANT

DATA SHEET FOR THE PARTICULATE MATTER EMISSION FROM POINT SOURCE

CPP BOILER ESP

DATE	NAME OF THE STACK	CROSS SECTIONAL AREA OF DUCT (M ²)	STACK GASES TEMP. (K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM³/Sec.)	DUST CONC. (Mg/ NM3)	MEAN DUST CONC. (Mg/ NM3)	EMISSION RATE (Ts/ DAY)	REMARKS
Apr-22				STOP			STOP	STOP	
May-22		10.69	397	13.56	137.57	17.8	17.8	0.212	
Jun-22	BOILER ESP			STOP			STOP	STOP	
Jul-22	BOILER ESF			STOP			STOP	STOP	
Aug-22				STOP	•	•	STOP	STOP	
Sep-22				STOP			STOP	STOP	

J.K. Cement WORKS, Mangrol (RAJ) 25 MW THERMAL POWER PLANT

DATA SHEET FOR THE PARTICULATE MATTER EMISSION FROM POINT SOURCE

CPP COAL CRUSHER

CFF COAL CR	COTILIC								
DATE	NAME OF THE STACK	CROSS SECTION AL AREA OF DUCT (M²)	STACK GASES TEMP. (K)	STACK GASES VELOCITY (M / Sec.)	FLOW OF GASES IN STACK (NM³/Sec.)	DUST CONC. (Mg/ NM3)	MEAN DUST CONC. (Mg/ NM3)	EMISSION RATE (Ts/ DAY)	REMARKS
Apr-22				STOP			STOP	STOP	
May-22		0.496	334	10.26	4.80	14.9	14.9	0.006	
Jun-22	COAL CRUSHER BAG			STOP			STOP	STOP	
Jul-22	FILTER			STOP			STOP	STOP	
Aug-22]			STOP	•	•	STOP	STOP	
Sep-22]			STOP			STOP	STOP	

Vimta Labs Limited

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/019

Issued Date

2022/07/07

P.O. Number P.O. Date 4600082693

: 03/06/2022

: Stack Connected to Bag House Kiln-I

Sample Registration Date

2022/06/27

Sample Collection Date

2022/06/21

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Analysis Starting Date

SAMPLE PARTICULARS

2022/06/27

Analysis Completion Date

2022/07/07

Test Required

O₂, PM, SO₂, NOx, HCl, HF, CO, CO₂ and TOC.

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE, F & CC Notification GSR 497(E)
1	Diameter of stack	m	i i	2.6	
2	Flue gas temperature	°C		125	**
3	Fuel	-	Coal+ pet coke+ co- processing of waste		
4	Oxygen as O2	%	Flue Gas Analyzer	11.3	**
5	Velocity	m/sec	LICEDA LA TILLA	16.1	
6	Volumetric flow rate	Nm³/Sec	USEPA Method-3	62.74	
7	Carbon Monoxide as CO	mg/Nm³		59	<100.0
8	Carbon Dioxide as CO ₂	%	Combustion Flue Gas	14.8	
9	Sulphur Dioxide	mg/Nm ³	Analyzer	33	<100.0
10	Oxides of Nitrogen, NOx as NO2	mg/Nm³		610	<800.0
11	Particulate Matter	mg/Nm³	USEPA method-5	6.06	<30.0
12	Hydrogen Chloride as HCI	mg/Nm³	USEPA method -26	3.6	<10.0
13	Hydrogen Fluoride as HF	mg/Nm³	USEPA method -13	0.62	<1.0
14	Total Organic Compounds as TOC	mg/Nm³	USEPA method -40 & MM5(10)	3.2	<10.0

All the Values are represented at 10% O2

Dr. SubbaReddy Mallampati Dy. Manager-Environment.

CIN: L24110TG1990PLC011977

Vimta Labs Limited

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/019

Issued Date

: 2022/07/07

P.O. Number

4600082693

P.O. Date

: 03/06/2022

Page 2 of 2

SAMPLE PARTICULARS

Stack Connected to Bag House Kiln-I

Sample Registration Date

: 2022/06/27

Sample Collection Date

2022/06/21

Analysis Starting Date

: 2022/06/27

Analysis Completion Date

: 2022/07/07

Test Required

: Hg & its compounds, Cd + Tl its compounds, Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE,F&CC Notification GSR 497(E)
	Mercury as Hg + their Compound			< 0.001	<0.05
2	Compound Chromium as Cr + their Compound			<0.001	<0.05
				0.018	
	Manganese as Mn + their Compound			0.016	
	Arsenic as As + their Compound			0.019	1
	Antimony as Sb + their Compound	mg/Nm³	USEPA method -29	0.011	1
	Lead as Pb + their Compound			0.021	
3	Cobalt as Co + their Compound			0.012	
	Copper as Cu + their Compound			0.015	1
	Nickel as Ni + their Compound			0.022	1
	Vanadium as V + their Compound			0.007	7
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.141	<0.5

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS

All the values are represented at 10% O2

Dr. SubbaRěddy Mallampati Dy. Manager-Environment.

CIN: L24110TG1990PLC011977

Vimta Labs Limited

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/020

Issued Date

: 2022/07/07

P.O. Number

: 4600082693

P.O. Date

: 03/06/2022

Page 1 of 1

SAMPLE PARTICULARS

Stack Connected to Bag House Kiln-I

Sample Registration Date Analysis Starting Date

2022/06/27 2022/06/27

Sample Collection Date Analysis Completion Date

2022/06/21 : 2022/07/07

Test Required

: PCDD & PCDF

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Results
1	1,2,3,4,6,7,8-HpCDD	ng/Nm³, TEQ	0.0011
2	1,2,3,4,6,7,8-HpCDF		0.0008
3	1,2,3,4,7,8,9-HpCDF		0.0042
4	1,2,3,4,7,8-HxCDD		0.0016
5	1,2,3,4,7,8-HxCDF		0.0001
6	1,2,3,6,7,8-HxCDD		0.0010
7	1,2,3,6,7,8-HxCDF		0.0002
8	1,2,3,7,8,9-HxCDD		0.0012
9	1,2,3,7,8,9-HxCDF		0.0001
10	1,2,3,7,8-PeCDD		0.0003
11	1,2,3,7,8-PeCDF		0.0004
12	2,3,4,6,7,8-HxCDF		0.0004
13	2,3,4,7,8-PeCDF		0.0008
14	2,3,7,8-TCDD		0.0004
15	2,3,4,7,8-TCDF		0.0004
16	OCDD		0.00001
17	OCDF		
Total Furans & Dioxins		ng/Nm³, TEQ	0.00001
Total Furans & Dioxins			0.0134
		ng/Nm³, TEQ Corrected to 10% O ₂ Concentration	0.0152
Limits as per MoE,F & CC Notification GSR 497(E)			<0.1

Method of Testing: As per USEPA 23 A & 8290

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01pg

Dr. SubbaReddy Mallampati Dy. Manager-Environment.

CIN: L24110TG1990PLC011977

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL

C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/021

Issued Date

: 2022/07/07

P.O. Number

: 4600082693

P.O. Date

: 03/06/2022

SAMPLE PARTICULARS

Stack Connected to Bag House Kiln-II

Sample Registration Date Analysis Starting Date

2022/06/27 2022/06/27 Sample Collection Date

2022/06/22

Test Required

Analysis Completion Date

: 2022/07/07

Page 1 of 2

 O_2 , PM, SO_2 , NOx, HCI, HF, CO, CO_2 and TOC.

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE,F & CC Notification GSR 497(E)
1	Diameter of stack	m	-	4.25	
2	Flue gas temperature	0C	- I	128	
3	Fuel		Coal+ pet coke+ co- processing of waste		
4	Oxygen as O ₂	%	Flue Gas Analyzer	9	
5	Velocity	m/sec		14.6	***
6	Volumetric flow rate	Nm³/Sec	USEPA Method-3	152.02	
7	Carbon Monoxide as CO	mg/Nm³		69	<100.0
8	Carbon Dioxide as CO ₂	%	Combustion Flue Gas	12	1100.0
9	Sulphur Dioxide	mg/Nm³	Analyzer	30	<100.0
10	Oxides of Nitrogen, NOx as NO2	mg/Nm³	7-5:	551	<800.0
11	Particulate Matter	mg/Nm³	USEPA method-5	8.6	=
12	Hydrogen Chloride as HCI	mg/Nm³	USEPA method -26	0/10/2	<30.0
13	Hydrogen Fluoride as HF	mg/Nm³	USEPA method -13	4.2 0.58	<10.0 <1.0
14	Total Organic Compounds as TOC	mg/nm³	USEPA method -40 & MM5(10)	6.4	<10.0

All the Values are represented at 10% O2

Dr. SubbaReddy Mallampati Dy.Manager-Environment.

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA, DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/021

Issued Date P.O. Number 2022/07/07 4600082693

P.O. Date

03/06/2022 .

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SAMPLE PARTICULARS

Stack Connected to Bag House Kiln-II

Sample Registration Date

2022/06/27

Sample Collection Date

2022/06/22

Analysis Starting Date

Analysis Completion Date

: 2022/07/07

Test Required

2022/06/27

Hg & its compounds, Cd + Tl its compounds, Sb+ As+ Pb+ Co+ Cr+

Cu+ Mn+ Ni+ V+ Their compounds

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE,F&CC Notification GSR 497(E)
_1	Mercury as Hg + their Compound			< 0.001	< 0.05
2	Cadmium + Thallium (Cd + Tl) + their Compound			<0.001	<0.05
	Chromium as Cr + their Compound	mg/Nm³		0.019	
	Manganese as Mn + their Compound			0.019 0.017 0.009 0.022 0.020	
	Arsenic as As + their Compound				
	Antimony as Sb + their Compound		USEPA		
	Lead as Pb + their Compound		method -29		
3	Cobalt as Co + their Compound				
	Copper as Cu + their Compound			0.016	
	Nickel as Ni + their Compound			0.013	
	Vanadium as V + their Compound			0.022	
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.150	<0.5

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS

All the values are represented at 10% O2

Dr. SubbaReddy Mallampati Dy.Manager-Environment.

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

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ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA.

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

VLL/VLS/22/04982/022

Issued Date

2022/07/07

P.O. Number P.O. Date

4600082693 03/06/2022

Stack Connected to Bag House Kiln-II

Sample Registration Date

2022/06/27

Sample Collection Date Analysis Completion Date

2022/06/22 2022/07/07

Page 1 of 1

Analysis Starting Date Test Required

SAMPLE PARTICULARS

2022/06/27

PCDD & PCDF Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Results
1	1,2,3,4,6,7,8-HpCDD		0.0011
2	1,2,3,4,6,7,8-HpCDF		8000.0
3	1,2,3,4,7,8,9-HpCDF		0.0042
4	1,2,3,4,7,8-HxCDD		0.0016
5	1,2,3,4,7,8-HxCDF		0.0001
6	1,2,3,6,7,8-HxCDD		0.0010
7	1,2,3,6,7,8-HxCDF		0.0002
8	1,2,3,7,8,9-HxCDD		0.0012
9	1,2,3,7,8,9-HxCDF	ng/Nm³, TEQ	0.0001
10	1,2,3,7,8-PeCDD	-	0.0003
11	1,2,3,7,8-PeCDF		0.0004
12	2,3,4,6,7,8-HxCDF		0.0006
13	2,3,4,7,8-PeCDF		0.0013
14	2,3,7,8-TCDD		0.0004
15	2,3,4,7,8-TCDF		0.0001
16	OCDD		0.00001
1.7	OCDF		0.00001
Total Fur	ans & Dioxins	ng/Nm³, TEQ	0.0134
Total Furans & Dioxins		ng/Nm³, TEQ Corrected to 10% O ₂ Concentration	0.0123
	Li	mits as per MoE, F & CC Notification GSR 497(E)	<0.1

Method of Testing: As per USEPA 23 A & 8290

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01 pg

Dr. SubbaRe'ddy Mallampati Dy.Manager-Environment.

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

al.

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA,

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/023

Issued Date

2022/07/07

P.O. Number P.O. Date

4600082693 : 03/06/2022

Page 1 of 2

SAMPLE PARTICULARS

Stack Connected to Bag House Kiln-III

Sample Registration Date Analysis Starting Date

2022/06/27

Sample Collection Date

2022/06/18

2022/06/27

Analysis Completion Date

2022/07/07

Test Required

 O_2 , PM, SO_2 , NOx, HCl, HF, CO, CO_2 and TOC.

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE,F & CC Notification GSR 497(E)
1	Diameter of stack	m		4.0	
2	Flue gas temperature	°C		104	
3	Fuel	-	Coal+ pet coke+ co- processing of waste	7,-	
4	Oxygen as O ₂	%	Flue Gas Analyzer	7.6	
5	Velocity	m/sec	110004 14 11 1 6	16.8	
6	Volumetric flow rate	Nm³/Sec	USEPA Method-3	154	
7	Carbon Monoxide as CO	mg/Nm³		72	<100.0
8	Carbon Dioxide as CO ₂	%		10.3	
9	Sulphur Dioxide	mg/Nm³	Combustion Flue Gas Analyzer	43.0	<100.0
10	Oxides of Nitrogen, NOx as NO ₂	mg/Nm³	Aridiyzei	500.9	<600.0
11	Particulate Matter	mg/Nm³	USEPA method-5	8.8	<30.0
12	Hydrogen Chloride as HCl	mg/Nm³	USEPA method -26	4.3	<10.0
13	Hydrogen Fluoride as HF	mg/Nm³	USEPA method -13	0.49	<1.0
14	Total Organic Compounds as TOC	mg/Nm³	USEPA method -40 & MM5(10)	6.2	<10.0

All the Values are represented at 10% O2

Dr. SubbaReddy Mallampati Dy.Manager-Environment.

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA.

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

: VLL/VLS/22/04982/023

Issued Date P.O. Number : 2022/07/07

P.O. Date

: 4600082693 : 03/06/2022

Page 2 of 2

SAMPLE PARTICULARS

Stack Connected to Bag House Kiln-III

Sample Registration Date

2022/06/27

Sample Collection Date

2022/06/18

Analysis Starting Date

2022/06/27

Analysis Completion Date

: 2022/07/07

Test Required

Hg & its compounds, Cd + TI its compounds, Sb+ As+ Pb+ Co+ Cr+

Cu+ Mn+ Ni+ V+ Their compounds

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Results	Limits as per MoE,F&CC Notification GSR 497(E)
1	Mercury as Hg + their Compound			< 0.001	< 0.05
2	Cadmium + Thallium (Cd + TI) + their Compound	mg/Nm³		<0.001	<0.05
	Chromium as Cr + their Compound			0.022	
	Manganese as Mn + their Compound			0.022 0.024 0.012 0.026 0.016	
	Arsenic as As + their Compound				
	Antimony as Sb + their Compound		USEPA		
	Lead as Pb + their Compound		method -29		
3	Cobalt as Co + their Compound			0.019	
	Copper as Cu + their Compound			0.022	-
	Nickel as Ni + their Compound			0.021	7
	Vanadium as V + their Compound			0.019	1
	Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			0.181	<0.5

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS

All the values are represented at 10% O2

Dr. SubbaReddy Mallampati Dy.Manager-Environment.

Registered Office 142, IDA Phase II, Cherlapally Hyderabad-500 051, Telangana, India

T: +91 40 2726 4141 F: +91 40 2726 3657



ISSUED TO:

M/S. J.K. CEMENT LIMITED

Unit: - J.K. CEMENT WORKS MANGROL C/o. KAILASH NAGAR, NIMBAHERA.

DIST: CHITTORGARH, RAJASTHAN-312617,

INDIA.

Report Number

VLL/VLS/22/04982/024

Issued Date 2022/07/07

P.O. Number P.O. Date

4600082693 03/06/2022

Stack Connected to Bag House Kiln-III

Sample Registration Date

2022/06/27

Sample Collection Date

2022/06/18

Page 1 of 1

Analysis Starting Date

SAMPLE PARTICULARS

2022/06/27

Analysis Completion Date

2022/07/07

Test Required

PCDD & PCDF

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr.No.	Parameters	UoM	Results
1	1,2,3,4,6,7,8-HpCDD		0.0029
2	1,2,3,4,6,7,8-HpCDF		0.0026
3	1,2,3,4,7,8,9-HpCDF		0.0040
4	1,2,3,4,7,8-HxCDD	ng/Nm³, TEQ	0.0016
5	1,2,3,4,7,8-HxCDF		0.0001
6	1,2,3,6,7,8-HxCDD		0.0010
7	1,2,3,6,7,8-HxCDF		0.0002
8	1,2,3,7,8,9-HxCDD		0.0011
9	1,2,3,7,8,9-HxCDF		0.0001
10	1,2,3,7,8-PeCDD		0.0002
11	1,2,3,7,8-PeCDF		0.0004
12	2,3,4,6,7,8-HxCDF		0.0006
13	2,3,4,7,8-PeCDF		0.0013
14	2,3,7,8-TCDD		0.0004
15	2,3,4,7,8-TCDF		0.0001
16	OCDD		0.00001
17 OCDF			0.00001
Total Furans & Dioxins Total Furans & Dioxins		ng/Nm³, TEQ	0.0168
		ng/Nm³, TEQ Corrected to 10% O ₂ Concentration	0.0138
	per MoE,F & CC Notification		- < 0.1

Method of Testing: As per USEPA 23 A & 8290

Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01pg

Dr. SubbaReddy Mallampati Dy.Manager-Environment.



TEAM TEST HOUSE





JDA/UDH

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S)

Office: E-65, Chitranjan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone: +91 6377210064, 9414077379, Website: www.teamtesthouse.com Email: team.bdhead@gmail.com

Laboratory: G1-584, RIICO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan Phone: +91 9460222039, 9460222049, Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

ANNEXURE-1

TEST REPORT

Report No./ULR No.:	TC502522400001732	Date :	05-07-2022
Issued To:	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitori ng:	20-06-2022
Point of Collection :	Near Time office	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.36	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	37.39	IS 5182 (Part 24): 2019	60.00
7	Sulphur Dioxide [microgram/m3]	4.94	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	81.73	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	10.1	IS 5182 : Part 26 : 2020	20.00

Notes :-

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1 her Puran Mai Yogi

Rajesh Maheshwar



(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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RSPCB ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JDA/UDH

Office: E-65, Chitranjan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone: +91 6377210064, 9414077379, Website: www.teamtesthouse.com Email: team.bdhead@gmail.com Laboratory: G1-584, RIICO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan Phone: +91 9460222039, 9460222049,

Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001732	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitori ng:	20-06-2022
Point of Collection :	Near Time office	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Mai Yogi Senior Analyst

(Report No: 400001732)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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Office: E-65, Chitranjan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone: +91 6377210064, 9414077379, Website: www.teamtesthouse.com Email: team.bdhead@gmail.com CO 45001:2018 (OH&S) JDA/UDH Laboratory : G1-584, RIICO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan

Phone: +91 9460222039, 9460222049, Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502522400001733	Date :	05-07-2022
Issued To:	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitori ng :	20-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.3	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	27.82	IS 5182 (Part 24): 2019	60.00
7	Sulphur Dioxide [microgram/m3]	3.16	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	73.09	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7.6	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran Mal Yogi

Rajesh Maheshwan



(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory RSPCB ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JD

Office: E-65, Chitranjan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone: +91 6377210064, 9414077379, Website: www.teamtesthouse.com Email: team.bdhead@gmail.com Laboratory: G1-584, RIICO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan Phone: +91 9460222039, 9460222049, Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	400001733	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitori ng:	20-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Mai Yogi Senior Analyst

Rajesh Maneshwan Authorized Signatory (Report No: 400001733)



(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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ISO 14001:2015,

ISO 45001:2018 (OH&S) JDA/UDH Laboratory: G1-584, RIICO Industrial Area,

Sitapura, Jaipur - 302022, Rajasthan Phone: +91 9460222039, 9460222049, Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

Office: E-65, Chitranjan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone: +91 6377210064, 9414077379, Website: www.teamtesthouse.com Email: team.bdhead@gmail.com

TEST REPORT

Report No./ULR No.:	TC502522400001734	Date :	05-07-2022
Issued To:	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitori ng :	21-06-2022
Point of Collection :	Near Factory Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.35	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	32.4	IS 5182 (Part 24): 2019	60.00
7	Sulphur Dioxide [microgram/m3]	4.5	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	76.6	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	10.1	IS 5182 : Part 26 : 2020	20.00

Notes :-

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ran Mal Yogi

Rajesh Maheshwan



(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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TEST REPORT

Report No./ULR No.:	400001734	Date :	05-07-2022
Issued To:	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitori ng:	21-06-2022
Point of Collection :	Near Factory Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS Observed Value **Testing Protocol** Limits as per S.No Parameters **National Ambient** Air Quality Standard, 2009 IS 5182 (Part 11): 2012 5.00 BDL (<1.0) Benzene [microgram/m3] RA 2017 **CPCB** Guidelines 1.00 BDL(<0.5) Benzo-alfa- Pyrene [ng/m3]

Notes :-

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Puran Mal Yogi Senior Analyst

Authorized Signatory (Report No: 400001734)



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TEST REPORT

Report No./ULR No. :	TC502522400001735	Date :	05-07-2022
Issued To:	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitori ng:	21-06-2022
Point of Collection :	Near Colony Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.09	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	40.02	IS 5182 (Part 24): 2019	60.00
7	Sulphur Dioxide [microgram/m3]	3.26	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	82.96	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	10.5	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran Mal Yogi

Rajesh Maheshwan



(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory
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Email: marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001735	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitori ng:	21-06-2022
Point of Collection :	Near Colony Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mai Yogi Senior Analyst

Authorized Signatory
(Report No: 400001735)

(See Rule - 10) Final Report

Report No. : 2147

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh a sample of Ambient Air Quality of M/S J.K Cement Works, Mangrol, Plant - Mangrol [735], Village Mangrol, City-Tilakhera and Mangrol Tehsil-Nimbahera, District-Chittorgarh M.L. No-ML-26108 Collected from Ambient air quality monitoring near colony gate. Collected on 07/07/2022. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the

analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) µg/m3	73
2	PM 2.5 ug/m3	17
3	Sulphur Dioxide as SO2 ug/m3	7.5
4	NO2 ug/m3	23.6

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

Rajasthan State Pollution Control Board Regional Office Chittorgarh Near FCI Godown, Chanderia, Chittorgarh Phone:01472-255077

(See Rule - 10) **Final Report**

Report No. : 2148

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh of Ambient Air Quality of M/S J.K Cement Works, Mangrol, Plant - Mangrol [735], Village Mangrol, City-Tilakhera and Mangrol Tehsil- Nimbahera, District- Chittorgarh M.L. No- ML-26108 Collected from Ambient air quality monitoring near time office. Collected on 07/07/2022. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the

analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) µg/m3	81
2	PM 2.5 ug/m3	28
3	Sulphur Dioxide as SO2 ug/m3	12.5
4	NO2 ug/m3	19.9

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

Rajasthan State Pollution Control Board Regional Office Chittorgarh Near FCI Godown, Chanderia, Chittorgarh

Phone:01472-255077

(See Rule - 10) Final Report

Report No. : 2149

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh a sample of Ambient Air Quality of M/S J.K Cement Works, Mangrol, Plant - Mangrol [735], Village Mangrol, City-Tilakhera and Mangrol Tehsil-Nimbahera, District-Chittorgarh M.L No-ML-26108 Collected from Ambient air quality monitoring near Factory Gate. Collected on 07/07/2022. The Sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the

analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) µg/m3	86
2	PM 2.5 ug/m3	29
3	Sulphur Dioxide as SO2 ug/m3	7.7
4	NO2 ug/m3	24.4

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

Rajasthan State Pollution Control Board Regional Office Chittorgarh Near FCI Godown, Chanderia, Chittorgarh Phone:01472-255077

(See Rule - 10) **Final Report**

Report No. : 2150

Report On : 15/07/2022

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 11/07/2022 from Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh of Ambient Air Quality of M/S J.K Cement Works, Mangrol, Plant - Mangrol [735], Village Mangrol, City-Tilakhera and Mangrol Tehsil- Nimbahera, District- Chittorgarh M.L No- ML-26108 Collected from Ambient air quality monitoring near Thermal power plant. Collected on 07/07/2022. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on 15/07/2022 and declare the result of the

analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) µg/m3	93
2	PM 2.5 ug/m3	34
3	Sulphur Dioxide as SO2 ug/m3	9
4	NO2 ug/m3	22.8

The condition of the seals, fastening and container on receipt was as follows: Intact

Signed This On 15/07/2022

BOARD ANALYST

Rajasthan State Pollution Control Board Regional Office Chittorgarh Near FCI Godown, Chanderia, Chittorgarh

Phone:01472-255077

J.K. Cement WORKS, MANGROL (RAJ)

AMBIENT AIR QUALITY AVERAGE RESULTS (SPM) COMMON

FOR UNIT-1 ,2 ,3,CPP,WHRS & TWONSHIP (ALL VALUES IN MICROGRAMS / CUBIC METER)

(April" 2022 - September" 2022)

S.No. & Month	LOCATION / PERAMETER	NEAR TIME OFFICE	NEAR THERMAL POWER PLANT	NEAR FACTORY GATE	NEAR COLONY GATE	Remarks	
April'22							
1	PM10	42.54	39.90	45.85	40.55		
2	PM2.5	30.90	28.63	34.76	31.56		
3	SO2	11.14	9.93	13.10	10.69		
4	NOX	14.81	11.56	17.56	13.78		
5	со	599	533	617	646		
			May'22				
1	PM10	46.34	41.98	51.11	43.32		
2	PM2.5	34.18	31.62	38.68	33.12		
3	SO2	14.37	12.26	16.04	13.19		
4	NOX	18.37	15.15	23.73	16.19		
5	со	625	581	648	670		
			June'22				
1	PM10	48.38	40.72	56.19	45.13		
2	PM2.5	37.64	29.49	42.35	36.50		
3	SO2	16.15	11.53	17.84	12.21		
4	NOX	20.05	13.55	27.32	15.92		
5	со	639	608	658	683		
	July'22						
1	PM10	40.98	37.82	52.34	38.97		
2	PM2.5	28.65	25.71	40.15	28.94		
3	SO2	13.18	10.86	15.56	11.18		
4	NOX	17.87	12.90	22.27	14.69		

5	со	618	598	634	622		
August'22							
1	PM10	31.34	26.50	43.90	28.66		
2	PM2.5	22.55	19.61	31.05	17.80		
3	SO2	9.85	8.02	12.34	10.08		
4	NOX	12.78	10.75	18.44	14.81		
5	со	583	524	614	658		
			September'2	2			
1	PM10	40.25	43.74	50.05	45.31		
2	PM2.5	29.27	30.49	32.49	31.46		
3	SO2	14.03	17.96	13.05	12.62		
4	NOX	28.05	23.19	24.11	24.99		
5	СО	695	664	761	710		
	1		Six monthly Ave				
1	PM10	41.6	38.4	49.9	40.3		
2	PM2.5	30.5	27.6	36.6	29.9		
3	SO2	13.1	11.8	14.7	11.7		
4	NOX	18.7	14.5	22.2	16.7		
5	СО	626.4	584.8	655.2	664.9		

J.K. Cement Works, Mangrol (Unit-1) Fugitive Emission Monitoring Report April" 2022 - September" 2022

		SPM (µg/m3)				
S.No.	Month/Year		NEAR LIMESTONE CRUSHING SITE- 1	NEAR STACKER RECLAIMER-1	NEAR GYPSUM YARD-1	
1	Apr-22	1432.7	1935.6	1844.4	1394.5	
2	May-22	1683.4	2071.3	1925.6	1513.9	
3	Jun-22	1885.5	2232.0	2141.9	1657.1	
4	Jul-22	1125.3	1316.5	1214.0	1045.0	
5	Aug-22	896.5	1018.7	945.2	713.4	
6	Sep-22	944.7	1337.8	1256.2	982.1	

J.K. Cement Works, Mangrol (Unit-2) Fugitive Emission Monitoring Report (April" 2022 - September" 2022)

		SPM (µg/m3)				
S.No.	Month/Year	NEAR COAL YARD-2	NEAR LIMESTONE CRUSHING SITE-2	NEAR STACKER RECLAIMER-2	NEAR GYPSUM YARD-2	
1	Apr-22	1621.0	1942.6	2019.1	1530.7	
2	May-22	1710.8	2163.0	2283.6	1651.8	
3	Jun-22	1805.5	2368.2	2485.4	1726.5	
4	Jul-22	1233.7	1494.0	1612.4	1107.5	
5	Aug-22	989.4	1130.9	1218.8	686.2	
6	Sep-22	1015.8	1157.8	1246.2	713.0	

J.K. Cement Works, Mangrol (Unit-3) Fugitive Emission Monitoring Report (April" 2022 - September" 2022)

		SPM (µg/m3)				
S.No.	Month/Year	NEAR COAL YARD-3	NEAR ADDITIVE YARD	NEAR STACKER RECLAIMER-3	NEAR GYPSUM YARD-3	
1	Apr-22	1267.4	1445.7	1353.4	1200.7	
2	May-22	1327.0	1517.8	1404.4	1272.8	
3	Jun-22	1485.7	1694.0	1583.9	1361.7	
4	Jul-22	988.7	1148.4	1095.1	923.6	
5	Aug-22	681.8	842.5	784.9	628.3	
6	Sep-22	887.6	1011.4	968.9	921.4	



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ANNEXURE-4



(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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TEST REPORT

Report No./ULR No. :	TC502522200001293	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitori ng :	11-06-2022
Point of Collection	STP Sushila Nagar Colony	Date of Receipt :	14-06-2022
Date of Test/Analysis :	14-06-2022 to 22-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	67	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	10.08	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	12.5	APHA 2017:5210-B	30
4	Chloride as CI [mg/I]	144.41	APHA 2017 : 4500- CI- B	
5	Chemical Oxygen Demand (COD) [mg/l]	91.39	APHA:2017 : 5220-C	250
6	pH	7.85	APHA:2017 : 4500 H+B	5.5 - 9.0
7	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
8	Total Kjeldahl Nitrogen (TKN) [mg/l]	19.60	APHA 2017: 4500-Norg B	100
9	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
10	Total Residual chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- CI- B	1.0

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst Sunil Kumar

Rajesh Maheshwan

Authorized Signatory

(Report No: TC502522200001293)



(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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TEST REPORT

Report No./ULR No. :	200001293	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitori ng:	11-06-2022
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	14-06-2022
Date of Test/Analysis :	14-06-2022 to 22-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-

Notes :-

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Senior Analyst
Sunil Kumar

Rajesh Maheshwan Authorized Signatory (Report No: 200001293)

Printed on 22 June, 2022 02:27:54 pm



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TEST REPORT

Report No./ULR No. :	TC502522200001824	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitori ng:	13-08-2022
Point of Collection	STP Sushila Nagar Colony	Date of Receipt :	13-08-2022
Date of Test/Analysis :	13-08-2022 to 23-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	38	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	11.89	APHA 2017: 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	13	APHA 2017:5210-B	30
4	Chloride as CI [mg/l]	152.01	APHA 2017 : 4500- CI- B	
5	Chemical Oxygen Demand (COD) [mg/l]	104.45	APHA:2017 : 5220-C	250
6	pH	7.71	APHA:2017 : 4500 H+B	5.5 - 9.0
7	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017: 4500-S2-F	2
8	Total Kjeldahl Nitrogen (TKN) [mg/l]	21.43	APHA 2017: 4500-Norg B	100
9	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
10	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- CI- B	1.0

Notes :-

The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.

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Senior Analystumar

Authorized Signatory

(Report No: TC502522200001824)



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Email: team.bdhead@gmail.com

Laboratory: G1-584, RIICO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan Phone: +91 9460222039, 9460222049, Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200001824	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitori ng:	13-08-2022
Point of Collection :	STP Sushila Nagar Colony	Date of Receipt :	13-08-2022
Date of Test/Analysis :	13-08-2022 to 23-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

S.No Parameters Observed Value Testing Protocol Limits as per Environment protection rules, 1986

1 Faecal coliform [MPN/100ml] Not Detected IS 1622 : 1981 -

Notes :-

The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.

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Som Kumar

K.N. MUKHOPADHYAY

Authorized Signatory (Report No: 200001824)

J.K. Cement WORKS, Mangrol (RAJ)

Treated Domestic Effluent Analysis Report April" 2022 - September" 2022

S.No.	PARAMETER	Standards	April-22	May-22	June-22	July-22	August-22	September-22
1	рН	Between 5.5 to 9.0	8.54	8.2	8.08	7.83	8.2	8.34
2	Chlorides as Cl	Not to exceed 1000 mg/l	142	136	127	123.0	147.0	142
3	Total Suspended solids	Not to exceed 100 mg/l	24	26	21	19.0	24.0	27
4	Biological Oxygen Demand (3 days at 27 Degree C)	Not to exceed 30 mg/l	39	37	34	31.0	36.0	38.0
5	Chemical Oxygen Demand	Not to exceed 250 mg/l	8.93	8.41	8.2	8.0	8.7	8.5
6	Oil & Grease	Not to exceed 10 mg/l	1.4	1.32	1.26	1.4	1.6	1.5
7	Ammonical Nitrogen (as N)	Not to exceed 50 mg/l	7.12	5.81	6.37	8.0	9.2	7.1
8	Sulphide (as S)	Not to exceed 2.0 mg/l	<0.07	<0.09	<0.06	<0.11	<0.17	<0.14
9	Total Residual Chlorine	Not to exceed 1.0 mg/l	<0.1	<0.2	<0.1	<0.3	<0.2	<0.3



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TEST REPORT

Report No./ULR No. :	TC502522200001292	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample : Liquid Effluents		Date of Sample Collection/Monitori ng:	11-06-2022
Point of Collection	29.1 MW WHRS ETP	Date of Receipt :	14-06-2022
Date of Test/Analysis :	14-06-2022 to 22-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh		Fit for testing

RESULTS S.No **Parameters** Observed Value Testing Protocol Limits as per Environment protection rules. 1986 Total Suspended Solids [mg/l] 19 APHA.2017:2540-D 100 2 Biochemical Oxygen Demand (BOD) [mg/l] APHA 2017:5210-B 30 3 Chemical Oxygen Demand (COD) [mg/l] 68.54 APHA:2017:5220-C 250 8.03 APHA:2017: 4500 H+B 6.5 - 8.55 Phosphate (total) as P [mg/l] 0.79 APHA 2017: 4500-P C 5 6 Chromium Total [mg/I] BDL(<0.01) APHA: 2017: 3111-B 0.2 Copper [mg/l] BDL(<0.01) APHA: 2017: 3111-B 1.0 8 Iron [mg/l] BDL(<0.01) APHA: 2017: 3111-B 1.0 9 Zinc [mg/l] 0.05 APHA: 2017: 3111-B 1.0 10 Oil & Grease [mg/l] 4 APHA 2017: 5520 B 10 11 Total Residual chlorine [mg/l] BDL (<0.1) APHA 2017: 4500- CI- B 0.5

Notes :-

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Senior Analyst Sunil Kuma

Authorized Signatory (Report No: TC502522200001292)

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TEST REPORT

Report No./ULR No. :	200001292	Date :	22-06-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitori ng:	11-06-2022
Point of Collection :	29.1 MW WHRS ETP	Date of Receipt :	14-06-2022
Date of Test/Analysis :	14-06-2022 to 22-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

S.No	Parameters	Observed Value		Limits as per Environment protection rules, 1986
1	Temperature ['C]	28	APHA 2017 :2550A	-

Notes :-

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Senior Analyst mar

Rajesh Maheshwan

Authorized Signatory (Report No: 200001292)



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TEST REPORT

Report No./ULR No. :	TC502522200001823	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitori ng:	13-08-2022
Point of Collection :	29.1 MW ETP	Date of Receipt :	13-08-2022
Date of Test/Analysis :	13-08-2022 to 23-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	16	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9	APHA 2017:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	81.6	APHA:2017 : 5220-C	250
4	pH	7.89	APHA:2017 : 4500 H+B	5.5 - 9.0
5	Phosphate (total) as P [mg/l]	0.51	APHA 2017 : 4500-P C	5
6	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
7	Copper [mg/l]	BDL(<0.01)	APHA:2017:3111-B	3.0
8	Iron [mg/l]	BDL(<0.01)	APHA:2017:3111-B	3.0
9	Zinc [mg/l]	0.07	APHA:2017:3111-B	5.0
10	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
11	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- CI- B	0.5
12	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- CI- B	1.0

Notes :-

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Serior Analysumar

Authorized Signatory

(Report No: TC502522200001823)



(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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RSPCB ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JDA/UDH

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TEST REPORT

Report No./ULR No.:	200001823	Date :	23-08-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitori ng:	13-08-2022
Point of Collection :	29.1 MW ETP	Date of Receipt :	13-08-2022
Date of Test/Analysis :	13-08-2022 to 23-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value		Limits as per Environment protection rules, 1986
1	Temperature ['C]	30	APHA 2017 :2550A	-

Notes :-

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Senior Analyst Kumar

Authorized Signatory (Report No: 200001823)

J.K. Cement WORKS, Mangrol (RAJ)

29.1 MW WASTE HEAT RECOVERY PLANT April'2022 To September'2022

S.No.	PARAMETERS	RPCB Limits	April'2022	May'2022	June'2022	July'2022	August'2022	September'2022
1	Total Suspended Solids (TSS)	Not to exceed 100 mg/l	28.03	30.39	26.88	25.71	26.66	27.75
2	Oil & Grease	Not to exceed 10 mg/l	<0.39	<0.34	<0.31	<0.32	<0.35	<0.32
3	Total Residual Chlorine	Not to exceed 1.0 mg/l	<0.03	<0.01	<0.04	<0.06	<0.03	<0.08
4	Phosphate	Not to exceed 05 mg/l	0.67	0.68	0.64	0.66	0.59	0.63
5	Free available chlorine	Not to exceed 0.5 mg/l	<0.05	<0.07	,0.04	<0.04	<0.05	<0.06
6	pH Value	Between 6.5 to 8.5	7.75	7.86	7.62	7.69	7.75	7.73
7	Temperature	Shall not exceed 5°c above the receiving water temperature	4°C Higher then the intake water					
8	Copper as (Cu)	Not to exceed 1.0 mg/l	<0.02	<0.04	<0.05	<0.02	<0.04	<0.03
9	Zinc (as Zn)	Not to exceed 1.0 mg/l	<0.03	<0.01	<0.02	<0.02	<0.03	<0.02
10	Iron (Total)	Not to exceed 1.0 mg/l	0.39	0.36	0.34	0.32	0.35	0.32
11	Chromium (total)	Not to exceed 0.2 mg/l	0.06	0.08	0.05	0.09	0.06	0.07
12	BOD	Not to exceed 30 mg/l	9.83	10.11	8.87	9.84	11.78	10.46
13	COD	Not to exceed 250 mg/l	47.00	51.00	44	58	53	62

J.K. Cement WORKS, Mangrol (RAJ)

25 MW THERMAL POWER PLANT April'2022 To September'2022

S.No.	PARAMETERS	RPCB Limits	April'2022	May'2022	June'2022	July'2022	August'2022	September'2022
1	Total Suspended Solids (TSS)	Not to exceed 100 mg/l		16.52				
2	Oil & Grease	Not to exceed 10 mg/l		<0.39				
3	Total Residual Chlorine	Not to exceed 1.0 mg/l		<0.2				
4	Free available chlorine	Not to exceed 0.5 mg/l		<0.1				
5	pH Value	Between 6.5 to 8.5		7.54				
6	Temperature	Shall not exceed 5°C above the receiving water temperature		4 oC higher than the intake water temperature				
7	Copper as (Cu)	Not to exceed 1.0 mg/l	Not In Operation	<0.4	Not In Operation	Not In Operation	Not In Operation	Not In Operation
8	Zinc (as Zn)	Not to exceed 1.0 mg/l		0.03				
9	Iron (Total)	Not to exceed 1.0 mg/l		0.4				
10	Chromium (total)	Not to exceed 0.2 mg/l		0.09				
11	BOD	Not to exceed 30 mg/l		8.3				
12	COD	Not to exceed 250 mg/l		42				
13	Phosphate	Not to exceed 5 mg/l		0.44				

ANNEXURE-5







ANNEXURE-6

TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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Sitapura, Jaipur - 302022, Rajasthan Phone: +91 9460222039, 9460222049, Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600001186	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitori ng :	21-06-2022
Point of Collection :	Near Time office	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	62.3	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	53.7	IS 9989	70

Notes :-

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sentrany Mai Yogi

Raiesh Maheshwan Authorized Signatory

(Report No: TC502522600001186)



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Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502522600001187	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitori ng:	21-06-2022
Point of Collection :	Near Thermal Power Plant	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	65.8	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	57.4	IS 9989	70

Notes :-

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Puran Mal Yog Senior Analyst

lalesh Maheshwan

(Report No: TC502522600001187)



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Phone: +91 9460222039, 9460222049, Email: director@teamtesthouse.com, Email: marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502522600001188	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitori ng :	21-06-2022
Point of Collection :	Near Factory Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	63.8	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	52.2	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yo Senior Analyst

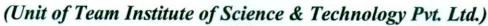
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(Report No: TC502522600001188)



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Office: E-65, Chitranjan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone: +91 6377210064, 9414077379, Website: www.teamtesthouse.com

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Email: director@teamtestnouse.com, Email: marketinglab@teamtesthouse.com

Laboratory: G1-584, RIICO Industrial Area,

TEST REPORT

Report No./ULR No.:	TC502522600001189	Date :	05-07-2022
Issued To :	M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitori ng:	21-06-2022
Point of Collection	Near Colony Gate	Date of Receipt :	28-06-2022
Date of Test/Analysis :	28-06-2022 to 05-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	59.3	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	52.3	IS 9989	70

Notes :-

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Puran Mal Yogi Senior Analyst

Rajesh Maheshwan Authorized Signatory

(Report No: TC502522600001189)

DATE OF RECEIPT: 11/07/2022

MONITORED BY: Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection Location	Date of	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2143	J.K Cement Works, Mangrol, Village- Tilakhera/MangrolTilakhera and Mangrol Tehsil:Nimbahera District:Chittorgarh	Mean Marin Factory	08/07/2022	60.4	ND

LAB INCHARGE

Rajasthan State Pollution Control Board

DATE OF RECEIPT: 11/07/2022

MONITORED BY: Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2144	J.K Cement Works, Mangrol, Village- Tilakhera/Mangrol Tilakhera and Mangrol Tehsil: Nimbahera District: Chittorgarh	Ambient noise level monitoring near time office.		60.1	ND

LAB INCHARGE

Rajasthan State Pollution Control Board

DATE OF RECEIPT: 11/07/2022

MONITORED BY: Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2145	J.K Cement Works, Mangrol, Village- Tilakhera/MangrolTilakhera and Mangrol Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near TPP	08/07/2022	57.3	ND

LAB INCHARGE

Rajasthan State Pollution Control Board

DATE OF RECEIPT: 11/07/2022

MONITORED BY: Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2146	J.K Cement Works, Mangrol, Village- Tilakhera/MangrolTilakhera and Mangrol Tehsil:Nimbahera District:Chittorgarh	Ambient noise level monitoring near Colony gate.	08/07/2022	57.1	ND

LAB INCHARGE

Rajasthan State Pollution Control Board

J.K. Cement WORKS, MANGROL (RAJ) Noise Monitoring Report

(April'2022 - September'2022)

(ALL VALUES IN dB)

Manth	25 N	ЛW CPP	10 MV	V WHR
Month	Day	Night	Day	Night
Apr-22	53.2	43.9	59.6	51.7
May-22	55.7	48.2	55.9	49.2
Jun-22	51.8	40.7	57.4	47.3
Jul-22	53.4	41.8	60.2	52.3
Aug-22	55.5	42.3	61.1	53.9
Sep-22	54.7	42.1	59.8	51.3

J.K. Cement WORKS, Mangrol (RAJ)

Noise Monitoring Report

			Mangro	ol Plant FY 2	2022-23 (Ur	nit - 1 , 2 & 3)		
Month	Near Time office		Near Thermal Power Plant		Near Raw material Gate		Near Packing Plant Gate	
	Day	Night	Day	Night	Day	Night	Day	Night
Apr-22	61.5	52.3	58.3	47.1	63.2	55.8	65.3	58.9
May-22	64.4	54.7	56.6	44.1	62.5	52.3	66.9	61.4
Jun-22	59.7	51.1	55.8	41.9	60.8	49.9	62.3	57.1
Jul-22	62.3	48.7	60.4	45.7	64.5	50.4	67.8	59.7
Aug-22	63.2	49.1	59.7	42.9	65.3	51.7	68.2	60.8
Sep-22	63.9	50.5	61.1	46.8	66.4	53.4	64.7	56.3

Great Place

Certified



Awareness Program on Ban of Single Use Plastic By

J K Cement Works
Nimbahera & Mangrol
Dist. Chittorgarh (Rajasthan)



August 2022

Display Board on Ban of SUP placed at Nimbahera Plant





सिंगल यूज प्लास्टिक के प्रयोग पर रोक लगाने के संबंध में।

क्या उपयोग नहीं करना है ?

केंद्रीय पयार्वरण, वन और जलवायु परिवर्तन मंत्रालय द्वारा अगस्त 2021 में अधिसूचित संशोधित प्लास्टिक अपशिष्ट प्रबंधन नियम 2021 के अनुसार निम्नलिखित एकल उपयोग प्लास्टिक वस्तुओं को प्रतिबंधित किया गया हैं।



सजावट के लिये प्लास्टिक व थर्माकोल (पॉलिस्टीरिन)



मिठाईयों के डिब्बे, निमंत्रण पत्रिका व सिगरेट के पैकेट और उनके कवर



प्लास्टिक की छड़ों के साथ कानकोरनी, गुब्बारों के लिए प्लास्टिक के झंडे, कैड़ी के छड़े, आईस्क्रीम छड़े



प्लेट्स, कप, ग्लासेस, कटलरी जैसे कि चम्मच, चाक् पिने के लिए स्ट्रॉ, ट्रे, घुलानी (स्टिस्स्)



100 माइक्रोन से पतले पीवीसी बेनर्स इन पर प्रतिबंध हैं।



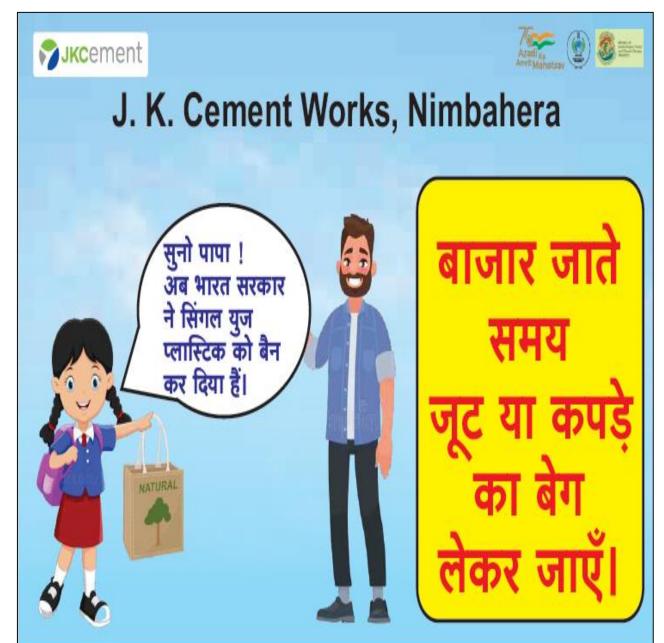
कंपोस्टेबल प्लास्टिक (कचरा और नर्सरी की थैलियों छोडकर)



सभी प्रकार के प्लास्टिक की थैलियाँ (कैरी बैग्स, नॉन वुवन बैग्स के साथ) हैण्डल वाली और बिना हैण्डल वाली



बर्तन, कटोरी और डिब्बे



Display Board on Ban of SUP placed at Kailash Nagar-1



Display Board on Ban of SUP placed at Kailash Nagar-2



Awareness on Ban of Single Use Plastic conducted at Nimbahera Town





Awareness on Ban of SUP conducted at Nimbahera Town

Awareness on Ban of SUP Audio Clip Played in Loud Speaker





Awareness on Ban of SUP conducted at Sahabad Village

Awareness on Ban of SUP conducted at Arniya Paliwal Village



Display Board on Ban of Single Use Plastic placed at Sushila Nagar Colony, Mangrol



Awareness on Ban of SUP conducted at Mangrol Village



Awareness on Ban of SUP conducted at Mangrol Village





Awareness on Ban of SUP conducted at Tilakhera Village

Awareness on Ban of SUP conducted at Badoli Madhopur Village





Awareness on Ban of SUP conducted at Arniya Joshi Village





Awareness on Ban of Single Use Plastic Conducted at Falwa Village





Awareness on Ban of SUP conducted at Maliakheri Village





Awareness on Ban of SUP conducted at Rasulpura

Awareness on Ban of SUP conducted at Charlia Gadiya Village





