



SHREE JAIPUR CEMENT PLANT

(A UNIT OF SHREE CEMENT LTD.)

An ISO 9001, 14001, 45001 & 50001 Certified Company

5KM STONE, MAHLA-JOBNER ROAD

VILLAGE-ASALPUR, TEHSIL PHULERA, DISTT.-JAIPUR-303 331

CIN NO. : L26943RJ1979PLC001933
Phone : 01462 228101-6
Toll Free : 1800 180 6003 / 6004
Fax : 01462 228117 / 228119
E-Mail : shreebwr@shreecement.com
Website : www.shreecement.com

SCL/SJCP/ENV/34/2021-22/

Date : - 14/05/2021

To,
The Deputy Director General of Forests (C),
Ministry of Env., Forest and Climate Change,
Integrated Regional Office, Jaipur,
A-209&218, Aranya Bhawan, Mahatma Gandhi Road,
Jhalana Institutional Area, Jaipur - 302004, Rajasthan

Sub: -Regarding Half yearly environment compliance report of the Environment Clearance Granted to Clinker Grinding Unit of Shree Cement Ltd. situated Near Village - Dehra - Asalpur, Tehsil - Phulera, District - Jaipur, (Rajasthan).

Ref: - Environmental Clearance Letter No. F 1 (4)/SEIAA/SEAC-Raj/Sectt/Project/Cat 3(b) B I (229)/09-10 dated 30th April 2010.

Dear Sir,

This is with reference to the above subject matter and referred letter, we are submitting herewith half yearly environment compliance report for the period of Oct-2020 to Mar-2021.

This is for your kind information please.

Thanking you,
Yours faithfully,
For Shree Cement Ltd.

Dr. Anil Kumar Trivedi
Sr. General Manager (Environment)

Copy to: -

1. Member Secretary, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur-302004.
2. The In-Charge (Zonal Office), Central Pollution Control Board (CPCB), 3rd Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal-462003(M.P.)

Regd. Office : BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA

JAIPUR OFFICE : SB 187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302045
Phone : 0141 4241200, 4241204

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110002
Phone : 011 23370828, 23379218, 23370776

CORP. OFFICE : 21, Strand Road, Kolkata 700001 Phone : 033 23306601, 4 Fax : 033 23304226

SHREE CEMENT LIMITED

**Village-Dehra-Asalpur, Tehsil - Phulera, District- Jaipur, (Rajasthan)
COMPLIANCE STATUS OF ENVIRONMENT CLEARANCE LETTER**

NO.: F 1 (4)/SEIAA/SEAC-Raj/Sectt/Project/Cat 3(b) B I (229)/09-10 Dated - 30th April 2010.

PERIOD OF COMPLIANCE: Oct-2020 to Mar-2021

S. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS								
i	The production capacity of the industry for Cement (Clinker Grinding) shall not exceed 4.00 million tones/ year.	Present production capacity for cement (clinker grinding) is less than 2.0 Million TPA. And last 03 years cement production are as below <table><tr><th>FY</th><th>Cement Production (in Million TPA)</th></tr><tr><td>2018-19</td><td>1.063</td></tr><tr><td>2019-20</td><td>0.596</td></tr><tr><td>2020-21</td><td>0.551</td></tr></table>	FY	Cement Production (in Million TPA)	2018-19	1.063	2019-20	0.596	2020-21	0.551
FY	Cement Production (in Million TPA)									
2018-19	1.063									
2019-20	0.596									
2020-21	0.551									
ii	No water shall be consumed in the processing and no waste water shall be generated.	Cement (Clinker grinding) is dry process therefore water is not used in process and Unit is being complying with zero liquid discharge (ZLD).								
iii	The PP shall be achieve the stack emission standards and ambient air standards as notified under E.P. Rules, 1986 (including CREP guidelines)	We are complying with the stack emission standards and ambient air standards. Compliance status of CREP conditions is attached herewith as <u>Annexure-1</u> .								
iv	The height of the stack for disbursement of the process emissions shall not be less than 30 M or as per the CPCB norms from ground level, whichever is greater.	Stack height attached with cement mill bag house is 55 mtrs from ground level.								
v	The PP shall operate the unit with prior Consent to Establish and Consent to Operate under the provisions of Water (Prevention & Control of Pollution) Act'74 and Air (Prevention & Control of Pollution) Act'81.	Consent to establish has been obtained vide letter no. F(Tech)/Jaipur (Phulera)/19(1)2010-2011/1050-1052 dt 27/05/2010 and Consent to operate vide letter no. F(Tech)/Jaipur (Phulera)/19(1)/2010-2011 /7928-7930 Dt 26/10/2016.								
vi	The particulate matter and gaseous emissions (SOx, NOx CO, CO ₂ , etc) from various processes/ units/storages shall conform to the standards prescribed by the RPCB/CPCB or under the Environment (Protection) Rules'86 from time to time.	Dust collectors are installed at all material transfer points to achieve the emission level of PM< 30 mg/Nm3. Gaseous parameter e.g. SOx, NOx. CO and CO2 not applicable for the clinker grinding unit.								

vii	At no time, the emissions shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the unit shall immediately put off operation and shall not restart until the control measures are rectified to achieve the desired efficiency.	Dust collector has been installed at the stack of cement mill to control the particulate matter emission and Interlocking facility has been provided in the pollution control system with the cement mill.
viii	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided to control emissions within 50 mg/NM ³ by installing adequate air pollution control system like bag filters, dust collectors etc. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	Continuous Emission Monitoring System (CEMS) has been installed at cement mill stack to monitor particulate matter emission level and the data of same are being continuously uploaded at RSPCB and CPCB server on 24 x 7 basis. Interlocking facility has been provided in the pollution control system with the cement mill.
ix	The PP shall install adequate dust collection and extraction system to control fugitive dust emissions at loading/unloading points and at all the transfer points. For source emission control, bag filters shall be provided on clinker hopper, cement silo, fly ash silo, elevator; packer; cement transport equipment etc which will also contribute to reduce fugitive emissions. The fugitive emissions during loading and unloading shall be suitably controlled. Fugitive dust emissions from ball mill and storage areas shall be collected in bag filters and recycled back to the process. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	Bag filters have been installed at various material transfer points like clinker hopper, cement silo, fly ash silo, cement packer and unloading hoppers to control the fugitive emission. Dust collected from pollution control equipment is recycled back into the process. Fly ash, Clinker are stored in silos and Gypsum stored in covered yard. All conveyor belts are covered. All roads, truck parking area and cement bag loading areas are concreted. Road cleaning is being carried out by vacuum sweeping machines (01 truck mounted TPS and 01 Small TPS Machine).
x	Ambient air quality monitoring stations shall be set up in consultation with RPCB in the down wind direction as well as where maximum ground level concentration of PM10 & PM2.5, SO _x , NO _x , CO, CO ₂ , are anticipated.	03 nos ambient air quality monitoring stations have been installed in consultation with RPCB. We are a standalone clinker grinding unit and as per existing practice in Cement industry, PM10, PM2.5, SO ₂ , NO ₂ & CO are monitored. Monitoring results are attached herewith as Annexure - 2 .
xi	The project proponent shall submit an Air pollution control plan indicating various sources of air pollution, their emission rate, the control established and details of controls etc.	Details have been incorporated in project report and submitted to the SEIAA during obtainment of EC.

Xii	Portholes and sampling facilities shall be provided for the stacks emissions monitoring as per the Central Pollution Control Board guidelines. Stack emissions shall be monitored in consultation with RPCB	Portholes and sampling facilities has been provided for stack emission monitoring as per the Central Pollution Control Board guidelines. Stack emission is carried out on monthly basis and CEMS online data is being continuously uploaded at RSPCB and CPCB server on 24 x 7 basis. Stack emission monitoring result are attached as Annexure-3 .
xiii	Data on ambient air quality and stack emissions shall be submitted to RPCB once in six months carried out by MOEF/NABL/CPCB/Government approved lab.	Complying with, ambient air quality monitoring report and stack emission monitoring report are being carried out by the NABL approved lab and reports are submitting to the RSPCB on quarterly basis. Copies of same are attached as Annexure - 4 .
xiv	Fugitive dust emissions shall be controlled as per relevant guidelines issued by CPCB.	Bag filters have been provided at various storage, material transfer points and loading & unloading hoppers to control fugitive emission. Raw material is being stored in covered sheds. Cleaning of roads and floors is done by vacuum cleaning machine. Fugitive dust emission monitoring result are attached as Annexure-5 .
xv	The total requirement shall not exceed 300 KLD (150 KLD for domestic use + 150 KLD for industrial use) of which 200 KLD is during Ist Phase & 100KLD during IInd Phase as mentioned in the Project report. Ground water extraction shall not be done without Prior permission of CGWA	NOC from CGWA has been obtained for the withdrawal of ground water of 300 KLD water vide letter no. 21-4(428)/WR/CGWA/2010-816 on dated 14 may 2010. Online application for renewal of the above NOC was also submitted vide application No.21-4/428/RJ/IND/2010 dated 22.01.2021 for 200 KLD.
xvi	The PP shall provide separate drainage and outlets for the management of storm water.	Separate drainage and outlets for the of storm water has been constructed. Storm water drains are connected with ground water recharge structure.
xvii	Handling, manufacture, storage and transportation of hazardous chemicals shall be in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (amended till date).	Not applicable for us as we are not used any type of hazardous chemical in cement manufacturing process.
xviii	The PP shall take adequate measures for the control of noise shall be taken so as to keep the noise levels below 85dBA in the work environment. Persons working near the machines shall be provided with well-designed ear muffs/plugs and other personnel protective equipments. The Project Proponent shall submit a Silicosis Management Plan to RPCB prior to commence of work.	Noise level within the plant area is < 85 dB(A). PPEs e.g. ear plug/ muffs are provided to persons working in high noise area. Quartz like materials which cause Silicosis related diseases are not used. Work zone monitoring of noise level are attached as Annexure-6 .

	Suitable alarm system and standard procedure for transmitting the information on the occurrence of an accident to the proper focal point shall be established	We have installed smoke detectors, fire alarm & siren for information to all so as to assemble at different pre-identified locations in case of emergency.
xx	Efforts shall be made to increase green belt all around the premises. Native plant species shall be selected for these propose in consultation with the local Forest department. A green belt development plan be prepared and implemented so as to cover at least 33% area of the plot size.	We have developed plantation in 9.8 hectare out of 29.16 hectare of total plant area i.e. 34% of total plant area. During Apr-20 to Mar-21 total 444 nos of tree sapling planted for density increase.
xxi	A qualified person in the field of environment or separate Environmental Management Cell to be established to implement and carry out various functions is set up under the control of a Senior Executive who will report directly to the head of the project	A separate environmental management cell has been setup to carry out various management and monitoring functions.
xxii	The funds earmarked for the environmental protection measures shall be kept in separate account and shall not be diverted for other purposes and year wise expenditure shall be reported to RPCB under the rules prescribed for environmental audit.	Year wise recurring expenditure of EMP is being submitted to the Officials of Regional Office regularly. Expenditure incurred in the year of 2020-21 (April-2020 to March-2021) was 64.69 (cost in lac)
xxiii	implementation of the environmental safeguards like fire fighting, water harvesting etc. along with socio economic measures like group insurance, free medical facilities, ESI/EPF facilities to the employees as envisaged under the Environmental Management Plan; details are to be submitted to the Rajasthan Pollution Control Board, at the time of applying for consent to establish/operate.	Separate safety department has been established to take care of emergency situation. Fire fighting arrangements have been made at all required locations. Group medical policy and EPF has been adopted.

xxiv	The PP shall ensure that, the EC letter as well as the status of compliance of EC conditions and the monitoring data are placed on company's website and displayed at the project site.	EC compliance status and monitoring data placed at the company's website www.shreecement.com and project site regularly.
xxv	The PP shall ensure that, in order to take up voluntary CSR related activities, a sum of Rs.500.00 lakh is provided and spent initially and a sum of RS 50.00 Lakhs annually. The books of accounts shall reflect the expenditure made in this regard. Item wise break up in this regard shall be submitted to RPCB at the time of applying for CTE	Item wise break up in this regard has been submitted to RPCB at the time of applying for CTE and below CSR activities are being carried out in consultation with local panchayat in nearby villages • Environment Protection • Women empowerment • Education and Healthcare • Sports and Religious activity.
xxvi	Six monthly compliance status reports on project along with implementation of environmental measures shall be submitted to MoEF, Regional Office, Lucknow and Rajasthan State Pollution Control Board.	Agreed, we are submitting herewith six monthly Environment compliance in MoEFCC Regional Office Jaipur, Zonal office CPCB Bhopal and Rajasthan State Pollution Control Board.
xxvii	The SEIAA, Rajasthan reserves the right to add new conditions, modify/annual any of the stipulated conditions and/or to revoke the clearance if implementation of any of the condition stipulated by SEIAA, Rajasthan or any other competent authorities is not satisfactory.	It's SEIAA, Rajasthan jurisdiction.

CREP Compliance

S.No.	Corporate Responsibility for Environmental Protection (CREP)	Compliance to CREP
1	Cement Plants, which are not complying with notified standards, shall do the following to meet the standards; Augmentation of existing Air Pollution Control Devices-by July 2003 Replacement of existing Air Pollution Control Devices-by July 2004	Complying with the new emission standards for PM notified by MOEF&CC as per G.S.R 612 (E) dated 25.08.2014. Grinding units is not emitting SO ₂ & NO _x .
2	Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100 mg/Nm ³ limit or particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm ³ .	The location of the Grinding Unit is neither in critically polluted area nor in urban area. However, the unit have installed Air Pollution Control equipment with particulate emission of less than 30 mg/Nm ³ .
3	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f 01.04.2003 will meet the limit of 50 mg/Nm ³ by particulate matter emissions.	Not applicable to this project as the unit is a Clinker Grinding Unit.
4	CPCB will evolve load based standards by December 2003.	Not applicable.
5	CPCB and NCBM will evolve SO ₂ and NO _x emission standards by June 2004.	Not applicable to this project as the unit is a Clinker Grinding Unit.
6	The cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendations within three months.	CPCB Environmental Guidelines for Prevention and Control of Fugitive emissions are being followed by Cement Plant. Covered storages / silos have been provided for storage of Clinker, Fly Ash, Gypsum and Cement storage. Bag filters have been provided at all material transfer points.

		All transfer points and storage silos are provided with dust extraction system for effective control of fugitive dust emissions. The dust collected from the pollution control equipment is being recycled back into the process. Covered sheds and silos constructed for raw materials. All raw material transfer conveyor is covered. Truck mounted vacuum cleaner and road sweeper are deployed and good housekeeping is being maintain for controlling secondary fugitive dust emissions. All conveyor belts are covered. All movement area is cemented and sweeping is being done by vacuum sweeping machine.
7	CBCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cokes as fuel in cement kiln by July 2003.	Not applicable
8	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/ sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003	Continuous emission monitoring system (CEMS) are installed at cement mill stack for measure emission levels and data is being continuously uploading to CPCB and RSPCB Server.
9	Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	Not applicable to this project as the unit is standalone Clinker Grinding Unit.
10	Industries will submit the target date to enhance the utilization of waste material by April 2003.	Not applicable to this project as the unit is standalone Clinker Grinding Unit.
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Not applicable to this project as the unit is a Clinker Grinding Unit.
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	Not applicable to this project as the unit is a Clinker Grinding Unit.

Ambient Air Quality Monitoring Report (All Values in $\mu\text{g}/\text{m}^3$ except CO is in mg/m^3)

Year: 2020-21 (Oct-2020 to Mar-2021)

S. No	Location →	Plant boundary towards CCR					Plant boundary towards Electrical switch yard					Plant boundary towards Rain Water collection Pond				
	Month ↓	PM 2.5	PM 10	SO ₂	NO ₂	CO	PM 2.5	PM 10	SO ₂	NO ₂	CO	PM 2.5	PM 10	SO ₂	NO ₂	CO
1	Oct-2020	23	46	6	10	BDL	29	52	8	12	BDL	26	49	8	10	BDL
2	Nov-2020	25	42	9	11	BDL	31	49	9	11	BDL	22	51	6	13	BDL
3	Dec-2020	21	41	6	9	BDL	28	47	11	15	BDL	29	43	9	18	BDL
4	Jan-2021	26	45	11	12	BDL	30	49	13	14	BDL	26	41	8	10	BDL
5	Feb-2021	24	47	9	11	BDL	27	51	15	17	BDL	31	44	10	13	BDL
6	Mar-2021	30	49	12	15	BDL	33	54	12	15	BDL	24	43	13	14	BDL
	Avg.	24.8	45.0	8.8	11.3	BDL	29.7	50.3	11.3	14.0	BDL	26.3	45.2	9.0	13.0	BDL

Annexure-3

Stack emission Level Monitoring Report for the period of Oct-20 to Mar-21 (All Values in $\mu\text{g}/\text{m}^3$)

Sr. No.	Month & Year	Particulate Matter Emission Level from Stack attached with Bag House of Cement Mill (mg/Nm^3)	Average Opacity Meter Reading (mg/Nm^3)
1	Oct-2020	15.6	14.8
2	Nov-2020	12.8	13.4
3	Dec-2020	13.9	14.3
4	Jan-2021	14.6	14.3
5	Feb-2021	13.2	13.5
6	Mar-2021	16.5	16.3
	Average	14	14



Contact : +91 - 9810243870

EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory

(An ISO 9001:2015 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT**Ambient Air Quality Monitoring****Test Report No. : EKO/143/220321****Issue Date : 27/03/2021**

Issued To

: M/S SHREE CEMENT LTD. (UNIT-JAIPUR PLANT)

Near Village - Dehra-Asalpur

Tehsil - Phulera

District - Jaipur (Rajasthan)

Sample Description : Ambient Air Quality Monitoring
Sample Drawn on : 20/03/2021 To 21/03/2021
Sample Drawn by : EPEPL (Mr. Rohitash Rajput)
Sample Received on : 22/03/2021
Sampling Location : Plant Boundary Towards CCR
Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15
Analysis Duration : 22/03/2021 To 26/03/2021
Ambient Temperature (°C) : 30.0
Average Flow Rate of SPM (m³/min.) : 1.1
Average Flow Rate of Gases (lpm) : 1.0
Weather Conditions : Clear
Remark (if any) : NA

RESULTS

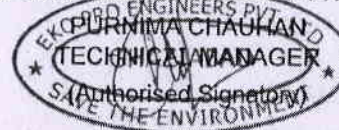
S. No.	Parameters	Test Methods	Results	Units	Limits as per National Ambient Air Quality Standard
1	Particulate Matter (PM10)	IS: 5182 (P-23)	51.9	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	33.5	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	14.8	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	19.5	µg/m ³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	0.68	mg/m ³	4.0

Notes :

1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer.
Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

**** End of Report ****

For EKO PRO ENGINEERS PVT. LTD.





Contact : +91 - 9810243870

EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory

(An ISO 9001:2015 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344457 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT**Ambient Air Quality Monitoring****Test Report No. : EKO/144/220321****Issue Date : 27/03/2021****Issued To****: M/S SHREE CEMENT LTD. (UNIT-JAIPUR PLANT)**

Near Village - Dehra-Asalpur

Tehsil - Phulera

District - Jaipur (Rajasthan)

Sample Description : Ambient Air Quality Monitoring
Sample Drawn on : 19/03/2021 To 20/03/2021
Sample Drawn by : EPEPL (Mr. Rohitash Rajput)
Sample Received on : 22/03/2021
Sampling Location : Plant Boundary Towards Electrical Switch Yard
Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15
Analysis Duration : 22/03/2021 To 26/03/2021
Ambient Temperature (°C) : 30.0
Average Flow Rate of SPM (m³/min.) : 1.1
Average Flow Rate of Gases (lpm) : 1.0
Weather Conditions : Clear
Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per National Ambient Air Quality Standard
1	Particulate Matter (PM10)	IS: 5182 (P-23)	56.3	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	35.4	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	16.8	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	19.4	µg/m ³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	0.65	mg/m ³	4.0

Notes :

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5. Responsibility of the Laboratory is limited to the invoiced amount only.

**** End of Report ****

For EKO PRO ENGINEERS PVT. LTD.

PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)



Contact : +91 - 9810243870

EKO PRO ENGINEERS PVT. LTD.Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in**TEST REPORT****Ambient Air Quality Monitoring****Test Report No. : EKO/145/220321****Issue Date : 27/03/2021**

Issued To

: M/S SHREE CEMENT LTD. (UNIT-JAIPUR PLANT)
Near Village - Dehra-Asalpur
Tehsil - Phulera
District - Jaipur (Rajasthan)

Sample Description	: Ambient Air Quality Monitoring
Sample Drawn on	: 19/03/2021 To 20/03/2021
Sample Drawn by	: EPEPL (Mr. Rohitash Rajput)
Sample Received on	: 22/03/2021
Sampling Location	: Plant Boundary Towards Rain Water Collection Pond
Sampling Time	: 24.0 Hrs.
Sampling Plan & Procedure	: SOP-AAQ/15
Analysis Duration	: 22/03/2021 To 26/03/2021
Ambient Temperature (°C)	: 30.0
Average Flow Rate of SPM (m ³ /min.)	: 1.1
Average Flow Rate of Gases (lpm)	: 1.0
Weather Conditions	: Clear
Remark (if any)	: NA

RESULTS

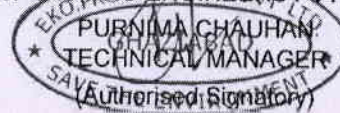
S. No.	Parameters	Test Methods	Results	Units	Limits as per National Ambient Air Quality Standard
1	Particulate Matter (PM10)	IS: 5182 (P-23)	48.3	µg/m ³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01	31.5	µg/m ³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	11.7	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	14.5	µg/m ³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	0.62	mg/m ³	4.0

Notes :

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**** End of Report ****

For EKO PRO ENGINEERS PVT. LTD.





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(An ISO 9001:2015 Certified Company)Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in**TEST REPORT****Stack Emission Analysis**

Test Report No. : EKO/146/220321

Issue Date : 27/03/2021

Issued To

: M/s SHREE CEMENT LTD. (UNIT-JAIPUR PLANT)
Near Village - Dehra-Asalpur
Tehsil - Phulera
District - Jaipur (Rajasthan)

Sample Description	: Stack Emission of Cement Mill
Sample Drawn on	: 20/03/2021
Sample Drawn by	: EPEPL (Mr. Rohitash Rajput)
Sample Received on	: 22/03/2021
Time of Sampling (minutes)	: 48.0
Sampling Plan & Procedure	: SQP-SE/09
Analysis Duration	: 22/03/2021 To 24/03/2021
Source of Emission	: Stack Attached To Cement Grinding Mill
Capacity	: -
Operating Load	: Normal
Normal Operation Schedule	: As per requirement
Type of Stack	: Metal/Circular
Diameter of Stack (meter)	: 2.0
Height of Stack from Ground Level (meter)	: 55.0
Height of Stack from Roof Level (meter)	: -
Height of Sampling Location (meter)	: 42.8 from Ground level
Type of Fuel Used	: -
Fuel Consumed per hour	: -
Ambient Temperature (°C)	: 31.0
Stack Temperature (°C)	: 72.0
Absolute Pressure (mmH ₂ O)	: 4.5
Average Velocity of Flu Emission (m/sec)	: 7.2
Average Flow Rate (lpm)	: 20.9
Control Measures (if any)	: Bag Filter
Remark (if any)	: NA

RESULT

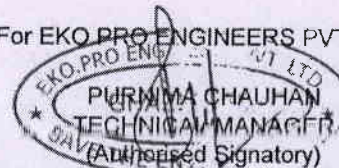
S.No.	Parameter	Test Method	Result	Result (CEMS)	Unit	Specification
1	Particulate Matter (as PM)	IS: 11255 (P-1)	14.4	14.2	mg/Nm ³	30.0

Notes :

- The results given above are related to the tested sample, as received & mentioned parameters.
The customer asked for the above tests only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer.
- Responsibility of the Laboratory is limited to the invoiced amount only.

**** End of Report ****

For EKO PRO ENGINEERS PVT. LTD.



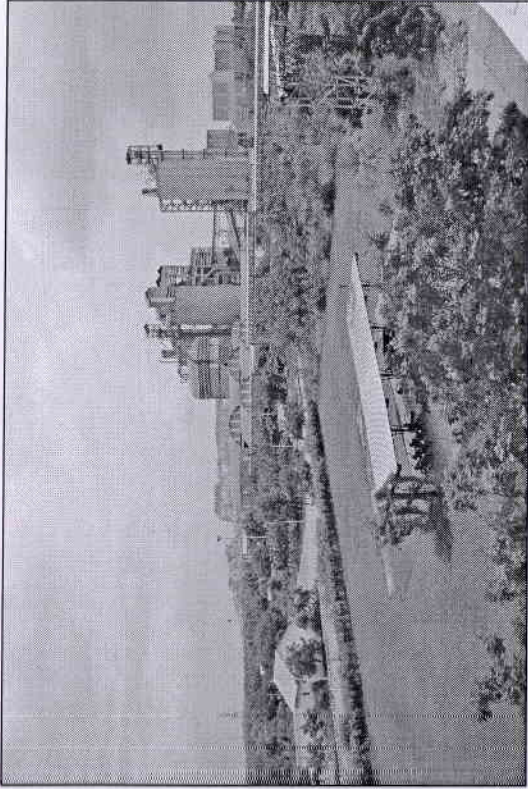
Annexure-5**Fugitive Emission Monitoring Report from Oct-2020 to Mar-2021 (all value in ug/m3)**

Sr.No.	Month & Year	Raw Material Unloading Area	Cement Mill Area	Packing Plant Area	Near Main Gate
01	Oct-2020	1952	1912	2041	1422
02	Nov-2020	1863	2039	2193	1476
03	Dec-2020	1893	2193	1866	1522
04	Jan-2021	1971	2326	2139	1652
05	Feb-2021	1837	2152	1974	1592
06	Mar-2021	1982	2088	2163	1481

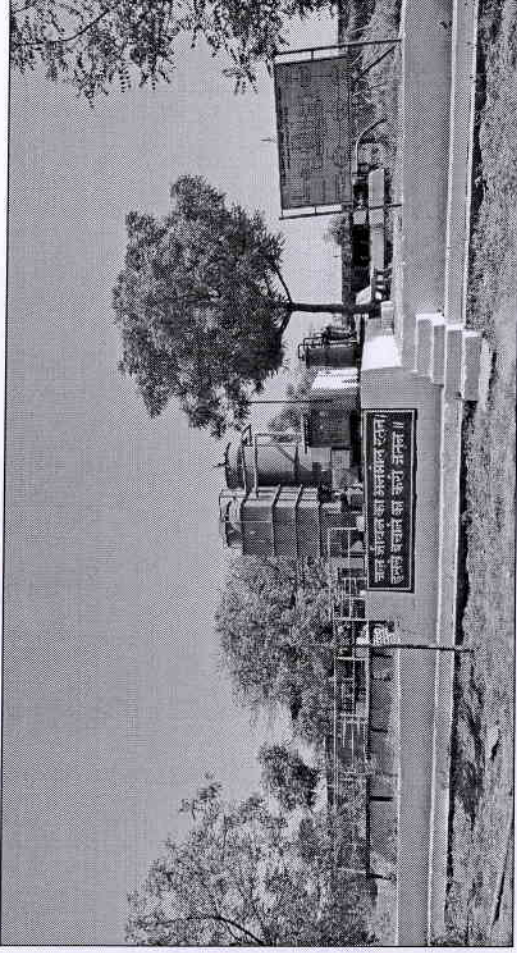
Annexure-6**Noise Level Work Zone Monitoring Report from Oct-2020 to Mar-2021 (all value in dB (A) Leq.)**

Sr.No.	Month & Year	CCR Building Area	Logistic Building Area	Packing Plant Area	Cement Mill Area	Compressor House Area	Raw Material Unloading Area	Main Gate Area
01	Oct-2020	43.4	47.9	61.7	67.2	69.2	64.2	59.2
02	Nov-2020	44.2	46.4	60.5	66.2	69.5	64.7	55.4
03	Dec-2020	42.1	45.1	61.4	67.5	70.4	64.1	54.6
04	Jan-2021	42.8	51.6	64.3	68.9	71.2	69.2	65.7
05	Feb-2021	41.7	48.2	64.1	68.2	68.2	68.5	54.8
06	Mar-2021	42.9	47.9	63.9	68.7	69.9	68.7	58.4

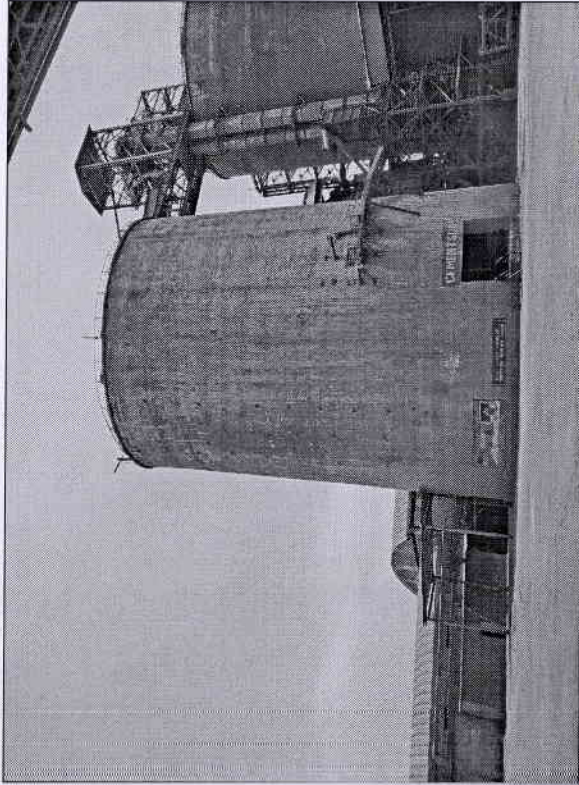
Photographs



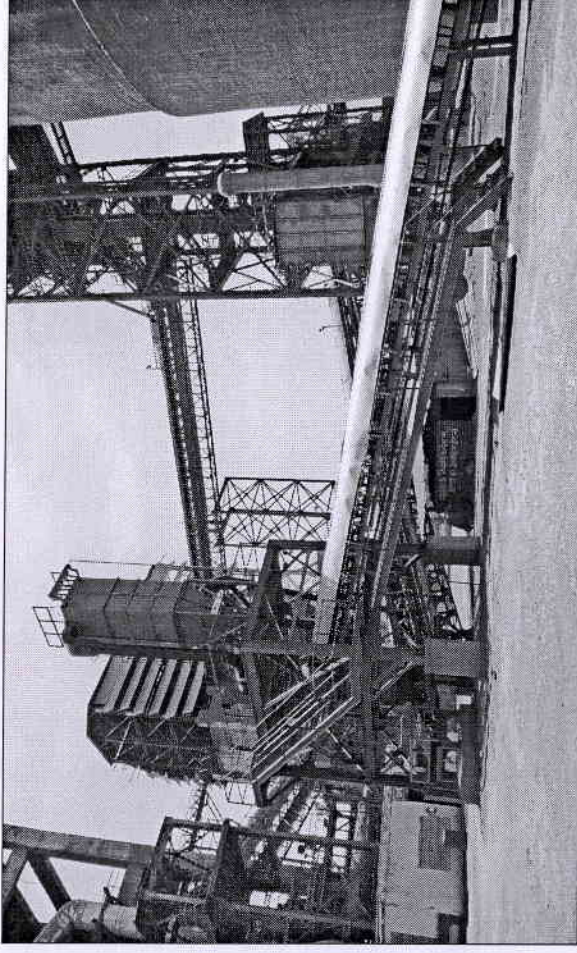
Plant View



Sewage Treatment Plant



Covered Silo for Cement & Raw Material



Covered Conveyor Belt