

JCCL/JCCP/ENV/ESR /2021-22

July 20, 2021

To,

The Member Secretary,  
U.P. Pollution Control Board,  
Lucknow – 226 010

**Sub: Submission of Environment Statement Form V under the Environment (Protection) Rules, 1986, For Jaypee Chunar Cement Products for the financial year 2020-2021**

Dear Sir,

Please find enclosed herewith Environment Statement Report in Form V of **Jaypee Chunar Cement Products** for your kind information and records please.

Thanking you,

Yours faithfully,  
For Jaypee Chunar Cement Products  
(A Unit of Jaypee Cement Corporation Ltd.)



R.K. Verma  
Vice President

Encl: As stated above.

CC: RO, Regional Office Pollution Control Board, Robertsganj, Sonabhadra (U.P.)

CC: The Director, Regional Office (Ministry of Environment & Forest), Lucknow (U.P.)

# JAYPEE CEMENT CORPORATION LIMITED



## ENVIRONMENT STATEMENT REPORT(**Jaypee Chunar Cement Products**)

[2020 - 2021]



### **JAYPEE CHUNAR CEMENT PRODUCTS**

(A Unit of Jaypee Cement Corporation Limited)

CHUNAR, MIRZAPUR,

DISTRICT-MIRZAPUR (UP) 231311

Ph. 05443-222265, 222602, 222926

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**"FORM - V"**

(See rule 14)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE  
31<sup>ST</sup> MARCH 2021**

**Jaypee Chunar Cement Products (A Unit of Jaypee Cement Corporation Limited)**

**PART - A**

(I)	Name & Address of the Owner / Occupier of the Industry Operation or Process	<b>Shri Manoj Gaur</b> <b>Executive Chairman</b> <b>Jaypee Chunar Cement Products</b> (Unit of Jaypee Cement Corporation Limited) <b>Village-Bakiyabad Tehsil - Chunar, Mirzapur</b> <b>(U.P.)231311</b>
(II)	Industry Category Primary (STC CODE) Secondary (SIC CODE)	Secondary SIC (CODE) <b>(Jaypee Chunar Cement Products)</b>
(III)	Production Capacity	01 Lakh TPA
(IV)	Year of Establishment	FEBRUARY 2012
(V)	Date of last Environmental Statement Submitted	15/07/2020



## PART – B

### Water & Raw Material Consumption

#### A. Water

- (i) Over All Consumption M<sup>3</sup>/day
- |          |   |       |
|----------|---|-------|
| Process  | } | 87.68 |
| Cooling  |   |       |
| Domestic |   | - NA  |
- (ii) Consumption per unit of production

Name of the Product	Process Water Consumption per unit of Product Output (M <sup>3</sup> / MT. of product)	
	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
Asbestos Cement Sheets	0.398	0.415

#### B. Raw Material Consumption

Name of the Raw Material	Name of Product	Consumption of Raw Material per Unit Product Output (MT / MT of Product)	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
1. Cement	Asbestos Cement Sheets	0.413	0.438
2. Fly Ash		0.174	0.197
3. Asbestos Fibre		0.076	0.079
4. Synthetic Fibre		0.000	0.000
5. Pulp		0.014	0.014
6. Water		0.323	0.272

#### C. Total Production (MT)

Name of Product	During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
Asbestos Cement Sheets	81201.595	76934.347





**PART - C**  
**Pollutant Discharged To Environment / Unit of Output**  
(Parameters as specified in the consent issued)

S. No.	Pollutants	Quantity of Pollutants Discharged ( Mass / day )	Concentrations of Pollutants in discharged ( Mass / volume )	Percentage of variation from prescribed standard with reasons
(1)	Water	Zero discharge from plant		
(i)	Domestic	Nil	Nil	Nil
(ii)	Industrial	Nil	Nil	Nil
(2)	Air			
(i)	Ambient Air	Ambient air quality parameters are well within prescribed limit. Report attached as Annexure-1		
(ii)	Stack Emission			
	Automatic Fibre Bag Opening machine	0.1058 Kg/day	1.40 mg/Nm <sup>3</sup>	Within permissible limit

**PART - D**  
**Hazardous Wastes**

(As specified under Hazardous and other waste / Management and Handling rules-2016, 1989 as ammended-2008)

Hazardous Waste		Total Quantity (MT)	
		During the Previous Financial Year(2019-20)	During the Current Financial Year (2020-21)
(a)	From Process Dry & Broken Pieces of AC Sheets ( Schedule 1 Cat-15.1)	1739.161 MT (Being Recycled into process within the unit)	2190.320 MT (Being Recycled into process within the unit)
(b)	From Pollution Control Facilities.	NIL	NIL

**PART - E**  
**Solid Wastes**

Solid Waste		Total Quantity	
		During the Previous Financial Year	During the Current Financial Year
(a)	From Process	No solid waste is generated from Process	No solid waste is generated from Process
(b)	From Pollution Control facilities	No solid waste is generated from pollution control facilities.	No solid waste is generated from pollution control facilities.
(c)	(i) Qty. recycled or reused Within the unit.	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed	Nil	Nil



## PART – F

**PLEASE SPECIFY THE CHARACTERISATIONS (IN TERMS OF COMPOSITION OF QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATES DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.**

1. Asbestos does not form part of Toxic substances, Highly Reactive substances and Explosive substances, etc. However Hazardous waste contains very less quantity of Asbestos Fiber and 100% being recycled.
2. The broken Asbestos Cement (A.C) sheets i.e off cuts and rejects are conveyed to an impact mill and is crushed to small particles. This is screened by a vibrating screen and recycled the over sizes. The under size material is collected in a storage bin. From the bin, the material is drawn to the Pulverizer. The fine powder material collected in the cyclone is drawn out through air lock rotary valve to the mixing system where the powder is mixed with water and the slurry is used in the process. Incorporation of pulverized hard waste in A.C products replaces 1 to 2% of the raw materials requirement.



**Hard Ground Broken Asbestos Sheet Waste with Bag Filter**





## **PART – G**

### **IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.**

#### **1. Extensive plantation in and around the plant.**

The plantation drive was carried out under the supervision of senior executive of company with active involvement of Employees of factory and school children. Suitable plant species of different plants selected for setting up of green belt development for biodiversity conservation, flower producing trees and broad canopy trees..

<b>Particulars</b>	<b>Plant species</b>	<b>Plantation during the year 2020-21</b>	<b>Survival rate in Percentage</b>
Plant boundary	Ashok ,AmalTash,Bogon Velia, Bel Teak , More Pankhi, Peepal, Gulab, Aklifa, Ark Pam, Ficos Neuda, Mango, Jamun, Neem	10000	85%

#### **2. Control of Fugitive dust**

Following measures have been taken to control of fugitive dust at Jaypee Chunar Cement Product:-



- a) Cement is being stored in the covered silos.
- b) Flyash is being stored in the covered silos.



- c) All Fiber Bags stored in closed yard and it's cleaning done by vacuum pump. All the swept material is being used in the process.
- d) STPs treated water is being utilized for the regular road water spraying.
- e) 90 % road is concreted in plant premises.
- f) Regular road sweeping is being carried out.

### **Mechanical Road Sweeper**

Mechanical road sweeper has been procured for the road sweeping resulting in the reduction of fugitive emission from the manual sweeping. All the swept material is being reused in the process.



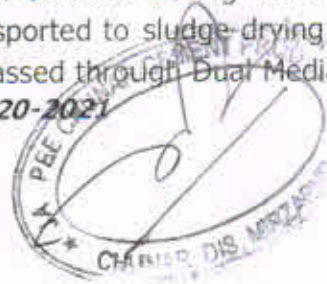
**ROAD SWEEPING MACHINE**

### **Use of STP treated water for the horticulture purpose.**

We have latest and advance technology based Sewage Treatment Plant which comprises of:

1. Screen Pit Bar
2. Oil and Grease Removal Chamber
3. Equalization Chamber for homogenization
4. FAB-1 and FAB-2 for Aeration Purpose.
5. Tube Settler
6. Chlorine Dosing Chamber
7. Multigrain Filter
8. Treated Water Tank

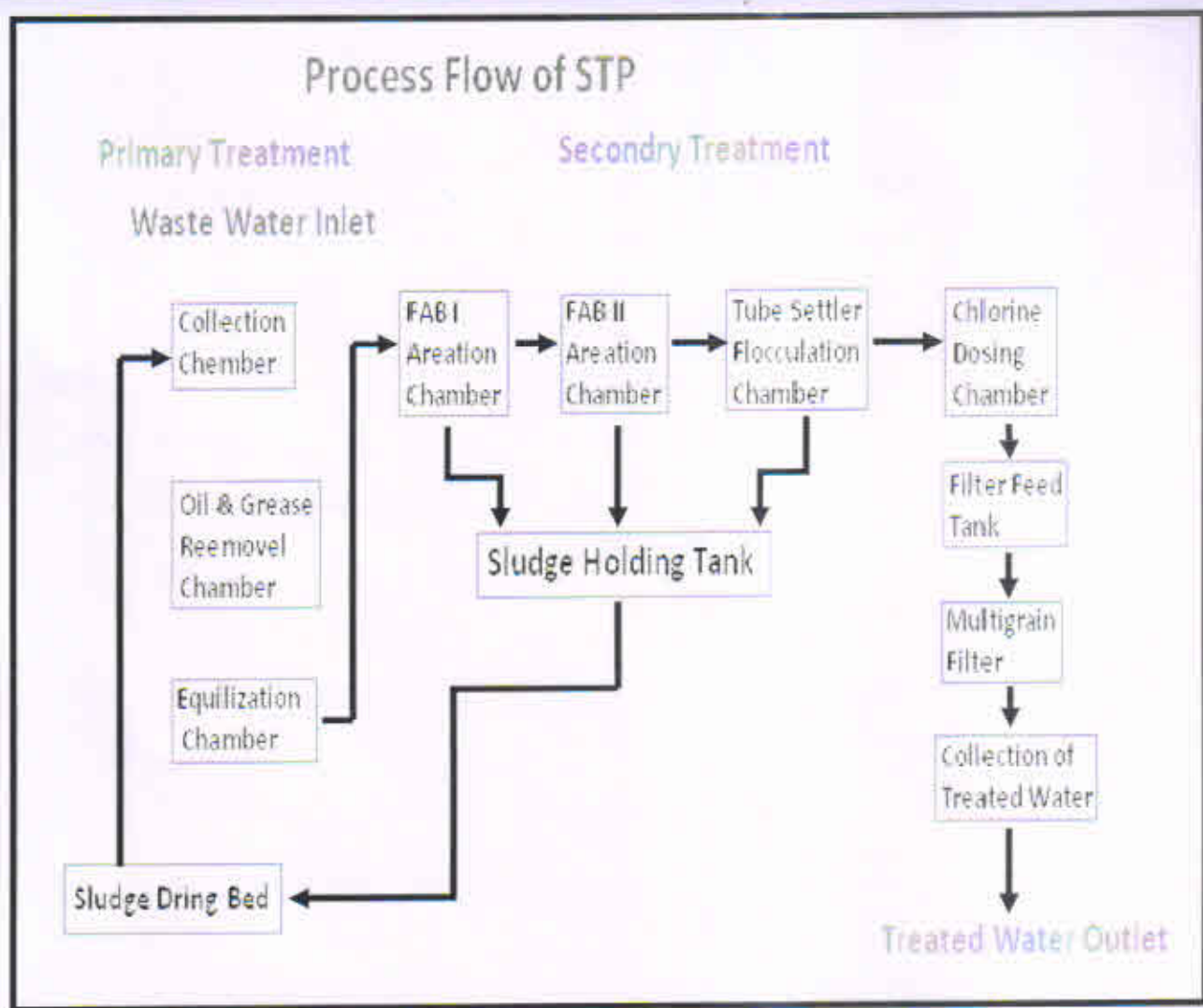
The capacity of sewage treatment plant is 100 m<sup>3</sup> per day. The sewage collected from the different part of colony and plant is being collected in Equalization Chamber where blowing is being done for homogenization of raw sewage water. Then this homogenized sewage water comes to FAB-1 and FAB-2 tank for sufficient aeration of sewage and then conveyed to Tube Settler where the suspended particle is being settle down through mechanical clarification system. After this Tube Settler water passed through Chlorine Dosing Tank and sludge settled at the bottom of Tube Settler is transported to sludge drying beds. Now the water from the Chlorine dosing tank is passed through Dual Media Filter and





then Activated Carbon Filter and ultimately collected in the final holding Treated tank. Final treated water are being used for Green belt Development and sprinkling on roads in Plant. The manures collected in Sludge Drying Bed is used for green belt development.





### PART – H

#### ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION

- ✓ A massive tree plantation is in progress inside as well as outside of the plant premises. Also small patches of gardens are developed inside the plant premises wherever the open space is available to improve the plant beautification. For the Green belt development in and around the Plant premises, total Nos. of plantation is 10000 and this year we are planning to plant 55000 trees in and around the Plant premises and colony.
- ✓ Installation of Oil Filtration machine for reuse of used oil, by this fresh lubricant oil consumption reduced

PART – I



#### ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT

- ✓ Installation of water meters at all water withdrawal & distribution points to evaluate the domestic and industrial water consumption on daily basis and accordingly optimize the wastage of water in a best possible way
- ✓ For the Green belt development in and around the Plant premises, total Nos. of plantation is 10000 and this year we are planning to plant 55000 trees in and around the Plant premises and colony.
- ✓ Treated water from STP is being utilized in colony & plant through well connected gravity flow water line for green belt development and sprinkling on roads.
- ✓ All internal roads are either concreted or blacktopped to reduce the fugitive dust emission inside the plant premises.

**For Jaypee Chunar Cement Products,  
(A Unit of Jaypee Cement Corporation Limited)**

Date- 20.07.2021



Summary of Ambient Air Quality Data monitored by Jaypee Chunar Cement Products : Chunar

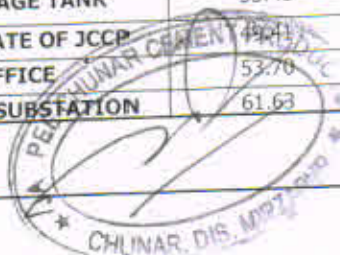
ANNEXURE - 1

MONTH - APRIL 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	52.08	27.48	18.58	21.93
2	NEAR DESPATCH GATE OF JCCP	51.00	27.38	18.80	20.00
3	NEAR JCCP TIME OFFICE	57.93	29.23	19.88	20.58
4	NEAR ELECTRICAL SUBSTATION	54.03	35.18	23.55	19.15

MONTH - MAY 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	52.48	28.23	18.39	23.96
2	NEAR DESPATCH GATE OF JCCP	47.55	29.41	17.64	23.84
3	NEAR JCCP TIME OFFICE	48.93	31.90	18.34	24.61
4	NEAR ELECTRICAL SUBSTATION	53.79	32.80	17.88	23.06

MONTH - JUNE 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	53.60	31.48	19.56	25.80
2	NEAR DESPATCH GATE OF JCCP	52.24	31.21	21.46	25.01
3	NEAR JCCP TIME OFFICE	53.46	32.75	18.39	24.83
4	NEAR ELECTRICAL SUBSTATION	53.65	31.75	22.40	27.30

MONTH - JULY 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	53.41	32.90	23.25	27.04
2	NEAR DESPATCH GATE OF JCCP	49.41	27.18	21.36	27.30
3	NEAR JCCP TIME OFFICE	53.70	33.00	25.25	27.80
4	NEAR ELECTRICAL SUBSTATION	61.63	33.13	19.99	24.50





MONTH - AUGUST 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	50.93	29.80	21.96	25.51
2	NEAR DESPATCH GATE OF JCCP	52.01	31.30	22.08	24.40
3	NEAR JCCP TIME OFFICE	54.09	32.20	22.16	26.14
4	NEAR ELECTRICAL SUBSTATION	52.80	31.35	23.90	27.53

MONTH - SEPTEMBER 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	54.60	32.06	23.50	26.08
2	NEAR DESPATCH GATE OF JCCP	46.43	26.71	21.96	24.94
3	NEAR JCCP TIME OFFICE	54.18	30.06	22.71	25.18
4	NEAR ELECTRICAL SUBSTATION	54.94	33.09	24.60	26.75

MONTH - OCTOBER 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	46.05	24.60	19.01	21.38
2	NEAR DESPATCH GATE OF JCCP	52.16	27.73	20.26	23.64
3	NEAR JCCP TIME OFFICE	48.70	26.61	18.86	22.09
4	NEAR ELECTRICAL SUBSTATION	51.93	28.23	22.91	24.81



MONTH - NOVEMBER 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	44.88	25.99	17.88	19.89
2	NEAR DESPATCH GATE OF JCCP	50.26	27.00	20.13	22.55
3	NEAR JCCP TIME OFFICE	45.69	25.65	14.51	16.79
4	NEAR ELECTRICAL SUBSTATION	52.08	28.64	21.15	23.31

MONTH - DECEMBER 2020					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	45.04	24.35	16.93	18.79
2	NEAR DESPATCH GATE OF JCCP	51.41	27.25	18.10	20.09
3	NEAR JCCP TIME OFFICE	45.28	24.56	14.39	17.50
4	NEAR ELECTRICAL SUBSTATION	50.53	26.50	16.69	18.85

MONTH - JANUARY 2021					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	48.14	26.84	17.54	19.96
2	NEAR DESPATCH GATE OF JCCP	48.83	27.65	17.96	20.21
3	NEAR JCCP TIME OFFICE	45.69	23.33	14.40	16.65
4	NEAR ELECTRICAL SUBSTATION	52.03	27.14	15.65	17.88

MONTH - FEBURARY 2021					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	48.65	25.66	17.64	19.46
2	NEAR DESPATCH GATE OF JCCP	50.46	25.99	17.83	20.64
3	NEAR JCCP TIME OFFICE	45.83	23.39	15.96	19.09
4	NEAR ELECTRICAL SUBSTATION	50.01	28.08	19.16	20.76

MONTH - MARCH 2021					
S.No	Sampling Location	AVG.PM10 ( $\mu\text{gm}/\text{m}^3$ )	AVG.PM 2.5 ( $\mu\text{gm}/\text{m}^3$ )	AVG.SOx ( $\mu\text{gm}/\text{m}^3$ )	AVG.NOx ( $\mu\text{gm}/\text{m}^3$ )
1	NEAR WATER STORAGE TANK	47.51	24.30	17.20	18.88
2	NEAR DESPATCH GATE OF JCCP	52.68	25.36	17.39	19.45
3	NEAR JCCP TIME OFFICE	46.39	25.15	13.18	15.86
4	NEAR ELECTRICAL SUBSTATION	52.01	27.14	14.63	18.01