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JKWK/ENV/ESD/11

Date: 02.05.2023

Member Secretary,
M.P. State Pollution Control Board,
Paryavaran Parisar, E-5,
Area Colony, Bhopal-16

Sub.: Environmental Statement – Form- V of M/s J.K. White, Katni (Unit of JK Cement Ltd.), PCB ID 29413, Green Category.

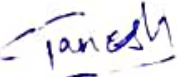
Dear Sir,

We hereby submit Environmental Statement Report (Form– V) for **JK White, Katni (Pre-Mix Dry Mortar)** for the year 2022-23 (April 2022 to March 2023 as per notification no. G.S.R. 329 (E), dt. 13th March 1992 and G.S.R. 386 (E), dt. 22nd April 1993 of Ministry of Environment and Forest (as per section 25 of the Water (Prevention & Control of Pollution) Act 1974, Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Environment Protection Act, 1986 of Govt. of India.

We hope you will find the report in order to every aspect.

Thanking you,

Yours faithfully,
For J. K. White, Katni



Ganesh Sahu
Unit Head

Enclosed: Form- V (Page2 to 13)

CC: The Regional Officer,
M.P. State Pollution Control Board
HIG-4, Housing Board Colony, Jiahnri.
Katni-483501 (MP)



Corporate Office

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• admin.prism@jkcement.com
• www.jkcement.com
CIN: L17229UP1994PLC017199

**JK SUPER
CEMENT**
BUILD SAFE

Manufacturing Units at :
Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)
Jharli (Haryana) | Katni, Panna (M.P.) | Aligarh, Hamirpur (U.P.)
Balasinor (Gujarat) | Fujairah

JKcement
WallMaxX
White Cement Based Putty



ENVIRONMENT STATEMENT

2022 – 2023



JK CEMENT
WallMaxX
White Cement Based Putty

M/s J. K. WHITE, Katni

Village: Rupaund, Tehsil: Badwara, District: Katni (MP)-483773

INTRODUCTION

Environmental regulation regimes globally have been command and control based, focusing primary on end-pipe measures. The success of the first generation of environmental law and policy has been limited. The Environmental Statement Report is an approach to boost up the environmental performance.

Man is a part of nature, and not separate or independent; at the same time, man is unique in the influence he has over nature. Man derives all his food, clothing, shelter and other amenities from nature. In that process, if he does not take care to protect and cherish nature, but decrease or destroys, he will find that his own life and that of his children is in jeopardy.

The environment is now a catch for all, the industry, the Government, the people. Hence, it is a joint responsibility to protect, preserve the environment and avoid perishing of natural treasures. At this critical juncture of time the Indian industry has fulfilled its commitment in maintaining the environmental integrity.

Adding the "ism" is designed to bring down science to the level of pseudoscience such as Marxism or creationism. Making environment synonymous to love for nature is science and philosophy combined but shouting concern about environmentalism is nothing but hypocrisy. Because, the environment requires respect, dedication, devotion and designs for natural benefits: - means we need a management proposal, which ultimately provides a regular guidance.

Environment is an article of faith and environmentalism is the offering to this faith. The ecological complexities of the environment made its study as a science in itself. And once we accept it, as a scientist we first test it and then trust it. In case of environmental protection what we test, frankly speaking, we test ourselves. With this objective we analyse and check our system to gain and guarantee the system functions. In environmental conservation and protection scenario this philosophy is now termed as environmental statement and Audits (ES/EA).

The JK White, Katni is one such industry adopting the above-referred system and techniques and deploying all the possible efforts at every level.

The putty manufacturing process is a dry mix process. It does not generate any flue gases & no effluent is generated. The process does not require water & hence there is zero discharge of effluents. Thus we can say the impact of putty manufacturing process on the environment is negligible. Water will be required for domestic purpose & green belt development.

The next few pages of this ESR of JK White, Katni present a picture of more optimism for environmental care than ever before. This is the Sustainable Development and this Environmental Science with no "ism" but a Complete Environment Management System.

PART - A

General Information

1. (a) Name of the Industry	J. K. White, Katni (A Unit of J. K. Cement Ltd.)
(b) Registered Office	J. K. House, Kamla Tower Kanpur (U.P.) Pin - 208001
(c) Unit Head Works	Mr. Ganesh Sahu
2. Industry Category	Green Pre-Mix Dry Mortars (Putty) plant,
3. Production Capacity	700000 TPA
4. Year of Establishment and production Start	2015_2016, 26 th May 2016
5. Date of last Environmental Statement submitted	04.07.2022
6. Wall Putty (including other Skim coat & Allied Products) produced during the financial year 2022-23	418494.74 MT

PLANT SITE – LOCATION AND GEOGRAPHY

PART - B

Water and Raw Material Consumption

Water consumption (Kl/day)

Year	Industrial Use	Domestic
2022-23	1293.23	9931.83

Name of the product	Water consumption / unit of product (m ³ /Ton)
Wall Putty	2022-23
	0.027 Kl/Ton

1. Total Raw Material Consumption

Name of the raw Material	Name of the product	Consumption of raw material per unit of Wall Putty (per Ton)
		2022-23
Dolomite	Wall Putty (including other Skim coat & Allied Products)	0.8251
White Cement		0.1328
Clay		0.0225
Additive		0.0148
Quartz Sand/Marble		0.0048
Raw material consumption / Ton of Putty		1.000

2. Average stock of raw materials (As on 31/03/2023)

S. No.	Material	Quantity (Tons) (Approx.) As on 31/3/2023
1	Dolomite	44607.68
2	White Cement	4851.05
3	Clay	1690.07
4	Additive	872.48
5	Quartz Sand/Marble	32.00

PART - C

Pollution Generated

(Parameters as specified in the consent issued)

A. WATER QUALITY MONITORING (Annual Average: from April 2022 to March 2023)

No industrial Effluent is generated; however domestic sewage water is Treated through STP. Water Quality monitoring details of STP Outlet: -

Sr. No	Parameters	Result	Unit
1	Feacal Coliform	29	mpn/100ml
2	COD	60	mg/L
3	BOD	16	mg/L

B. AMBIENT AIR QUALITY MONITORING (Annual Average: from April 2022 to March 2023)

Parameters ($\mu\text{g}/\text{m}^3$)	Monitoring Station (300 Mtr. far from Main Stack)			prescribed standards Annual ($\mu\text{g}/\text{m}^3$)	Percentage of variation from prescribed standards with reasons
	Pump House	Main Gate	Crusher Area		
RSPM	55.21	57.99	58.36	100	Under permissible limit

STACK MONITORING RESULTS

Sl. No.	Type of pollution control measures	Location	Emission level of PM mg/Nm^3
1.	Bag Filter	Crusher	22.34
2.	Bag Filter	Packing Plant	20.01

PART - D

Hazardous Waste

(As specified under Hazardous Waste Management & Handling Rules, 1989)
amendment as 2003

Hazardous Waste	Total Quantity	
	During the previous financial year (2022-2023)	
	Category 5.1 (Used /Spent Oil)	
1. From Process	3.141 MT	
2. From Pollution Control Facilities	Nil	

PART - E

Total Solid Waste Generated

Solid Waste	Total Quantity in Tons	
	2022-2023	
(a) From Process	560.34	
(b) From Pollution Control Facilities	Nil	
(c) (1) Quantity Recycled or Reused	Nil	
(2) Sold	310.50	
(3) Disposed	Nil	

PART – H

**Additional measures / investment proposal for Environmental protection
including abatement of pollution, prevention of pollution**

**EXPENDITURE ON ENVIRONMENT MANAGEMENT
(2022-2023)**

S. NO.	Heads	Cost (In Lakhs) Rs.
1.	Plant Cleaning & Sweeping Expenses	44.79
2.	Gardening Expenses	30.39
3.	ISO – Expenses	3.80
4.	Environment Management	10.24
5.	Environment Lab	0.35
6.	Online monitoring system	1.00
Total Rs.		90.57

PROPOSED EXPENDITURE ON ENVIRONMENT MANAGEMENT (2023-2024)

S. NO.	Heads	Cost (In Lakhs) Rs.
1.	Plant Cleaning & Sweeping Expenses	63.02
2.	Gardening Expenses	36.94
3.	ISO – Expenses	4.03
4.	Environment Management	33.95
5.	Environment Lab	0.12
6.	Online monitoring system	1.00
Total Rs.		139.06

ENVIRONMENTAL PROTECTION CELL

1. Name : Ganesh Sahu
Designation : Unit Head
2. Name : Rahul Dwivedi
Designation : Sr. Manager
Qualification : B.E. Electronics Instrumentation & Control
3. Name : Ajay Saini
Designation : Manager
Qualifications : B.Tech Mechanical

ENVIRONMENT MANAGEMENT CELL

PERSONNEL

CAPACITY

1. Mr. Ganesh Sahu Unit Head
2. Mr. Rahul Dwivedi Management Representative
3. Mr. Bhupendra Kumar Senior Engineer
4. Mr. Brijesh Kumar Pandey Manager HR
5. Mr. Haribhajan Shukla Assistant Manager
6. Mr. Deepak Pichkiya Senior Engineer

EQUIPMENT FOR ENVIRONMENTAL MONITORING

S. No.	Equipment	No.	Status
1	Respirable Dust Sampler	1	OK
2	Stack Monitoring Kit	1	OK
3	Noise Meter	1	OK

GREEN BELT DEVELOPMENT STATUS

Plantation Details Break up for 2022-2023 plantations

S. No.	Sites	Number	% Survival
1.	Factory Area	5107	80 %
2.	Outside Plant boundary	500	
3.	On Road Sides	200	
Total		5807	

PART – I

Any other particulars for improving the quality of the environment

This part reflects the total inputs by the organizations and total effective output of the intensions, commitments and achievements of the industry regarding environment management.

The separate section of Environmental Management of J.K. White, Katni is responsible for J. K. White, Katni to maintain the environmentally sound production. Other key factor is discussed in this chapter, which tells the truth of the strength of the industry.

Initiatives towards improvement of Environment:

1. Reduce the dust emission from the telescopic chute via minimize the ground clearance of telescopic chute with the help of distance part and also install the water spray system in crusher to reduce the dust emission from the telescopic chute.
2. Flooring at various area in the plant where there is a chance of soil contamination by raw material.
3. Complete flooring for dolomite storage and unused areas.
4. Increase the height of mixer vent about 2.5m up from existing height to prevent dust emission.
5. Development of security office outside area by providing garden & landscaping design.
6. Install line filter in air line for remove dust, moisture and oil from compressed air.
7. Invoice/ Challan printing on A4 Size paper for Reduction in noise pollution and carbon wastage.

SECTION – A

THE ENVIRONMENTAL EXPERTISE & IMPLEMENTATION

1. The Environment Management Cell:

The JK White, Katni has a good Environment Management System consist Environmental Protection Cell, which is responsible for regular monitoring of air, water and noise pollution, maintenance of pollution control equipment, regular checkup leakage points and spillage, waste management, compile and fulfill the regulatory requirement, green belt development.

2. Green Belt Development:

The industry is committed to make greenery in the premises, around the entire plant and on outer rim of the complex. **Plantation of 7314 trees as per Miyawaki Technique to developed small forest area.** In previous year we planted 700 trees around the plant boundary and road side. This trend will continue in future also.

There is an increasing trend of strengthening efforts for plantation since last year. The company has strategic and scientific Green Belt Development criteria with selection of the plant species having large leaf area, locally suitable plant species, large canopy and fast growing capacity.

4. Noise Levels:

In the putty plant, noise is generated in various machines such as crusher, grinding mill, fans, blowers, compressors etc. The ambient noise level of the plant at specific located points is below the standard prescribed by statutory authority. The complete plant is automatic; normally no person is near the operating machine during operation. The workmen are provided with Personnel Protective Equipment (PPE), so that they do not get high sound exposure when they are working near machines. Besides this The JK White, Katni monitor the noise level at various locations of the plant on regular basis. Additionally we regularly monitor the Ambient Noise Level in the factory premises as per the requirement of Environment Protection Act 1986 and ensured that the ambient noise level is under the permissible limit.

Noise Levels in dB (A) at Different Sites

(Sites located at boundary wall)
(From Apr.-2022 to Mar.-2023)

S. No.	Site	Annual Average Noise Levels in dB (A) Leq	
		Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
1	Near Main Gate	65.10	52.70
2	Near Loading Area	70.40	57.30
3	Near Crusher	63.00	53.80
4	Near Pump House inside plant	63.60	52.10

E= East, W= West, S= South, N= North

SECTION –B

ENERGY CONSERVATION MEASURES

ENERGY AND RESOURCE MANAGEMENT

Head	2022-23
A. Energy & Resources	
1. Electrical energy KWh/Ton Wall putty	27.70

B. Raw Materials		
1. Total Minerals Materials used / ton Wall Putty		0.983
2. Water consumption / unit of product m ³ /Ton		0.027 kl/Ton

SECTION – C

CONSUMPTION OF RESOURCES FOR ENERGY GENERATION (YEAR 2022-23)

S. No.	Particulars	Unit	2022-2023
1	Total Generation by Solar	KWh	1502371
2	Total Generation by D.G	KWh	30979.08
	Total Fuel Consumption in D.G.		
	HSD	KL	11.17
	Total	KL	11.17
3	Total units purchased from MPEB	KWh	10060400

SECTION - D

RISK ANALYSIS AND MANAGEMENT

This industry is not involved in manufacture of any chemical or fiber or paper requiring hazardous raw material. However, since it is an industry, though small, has many processes / operations, hence the company has prepared plan for the emergency. It is important to take all precautions to prevent emergency.

The following points have been highlighted for the same:

1. Mock drills for accidental relief, firefighting and evacuation of the crowd.
2. An overall diligence effort from top executives.
3. Well-defined roles and responsibilities for emergency management.
4. Well-arranged first aid and medical services with ambulance facility.
5. Prohibition on smoking on the working and storage zones.
6. Continuous monitoring on entry to potential risky zones.
7. Risk awareness programs are celebrated on International Safety Day.
8. Internal and External audit periodically.