ENVIRONMENTAL STATEMENT REPORT (FORM-V)

FOR THE PERIOD APR-22 TO MAR-23

KESORAM CEMENT

BASANTNAGAR

M/S. KESORAM CEMENT FACTORY

CEMENT DIVISION UNIT OF KESORAM INDUSTRIES LIMITED

POST: BASANTNAGAR – 505 187

DIST: PEDDAPALLI (T.S)

Kesoram Cement Factory
Prop: Cement Division Unit of Kesoram Industries Ltd
Basantnagar (V), Palakurthy (M), Peddapalli (Dist.), Telangana – 505187

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PART – A

1.	Name and address of the owner/ occupier of the industry operation or process.	:	Shri. P. Radha Krishnan Whole Time Director Kesoram Cement Factory Basantnagar, Palakurthy Mandal, Peddapalli District, Telangana – 505187
2.	Industry category	:	Primary STC Code: NA Secondary STC Code: NA
3.	Production capacity	:	1. Clinker – 1.20 MTPA 2. Cement(OPC/PPC) – 1.75 MTPA
4.	Year of establishment	:	01.10.1968
5.	Date of the last environmental statement submitted	:	02nd Sep, 2022

PART – B
WATER AND RAW MATERIAL CONSUMPTION

1. Water Consumption (m^3/day)		**:**	**2022-23**
i.	Process	:	1146.7
ii.	Gardening/Irrigation	:	20
iii.	Domestic	:	710.3

	Name of Products	**Process Water Consumption per unit of product output**	
		During the previous financial Year 2021-22	**During the current financial Year 2022-23**
i.	Clinker	0.172 m^3/MT	0.168 m^3/MT
ii.	Cement	0.196 m^3/MT	0.195 m^3/MT

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2. Raw Material Consumption – MT/MT of Product

*Name of raw materials		Name of products	Consumption of raw material per unit of output	
			During the previous financial Year 2021-22	During the current financial Year 2022-23
i.	Limestone	Clinker	1.372	1.373
ii.	Waste Lime	Clinker	0.009	0.004
iii.	Laterite	Clinker	0.024	0.026
iv.	Al. Laterite	Clinker	0.050	0.056
v.	Iron Ore	Clinker	0.001	0.001
vi.	Pet Coke	Clinker	0.000	0.000
vii.	Chrome Sludge	Clinker	0.005	0.000
viii.	Pond Ash	Clinker	0.022	0.000
ix.	Org. Residue	Clinker	0.000	0.000
x.	Carbon Black	Clinker	0.000	0.000
xi.	Coal	Clinker	0.188	0.201
xii.	Fly ash	Cement	0.318	0.337
xiii.	Gypsum	Cement	0.028	0.026

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PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF PRODUCT
(Parameters as specified in the consent issued)

Pollutants		Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/L)	Percentage of variation from prescribed standards with reasons
A. Water				
Effluent Water: There is no effluent generation from Cement Manufacturing Process				
Domestic Sewage Treated Water: Details are mentioned as under				
i.	pH	-NA-	7.3	Within the Limits
ii.	Total Suspended Solids (TSS)	0.46	17.5	-82.2 %
iii.	Total Dissolved Solids (TDS)	19.2	737	-64.9 %
iv.	Oil & Grease	0.05	2.1	-79.0 %
v.	Bio Chemical Oxygen Demand (BOD)	0.49	18.7	-81.2 %
vi.	Chemical Oxygen Demand (COD)	1.57	60.3	-75.8 %

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Pollutants	Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/Nm^3)	Percentage of variation from prescribed standards with reasons
B. Air			
Kiln – 1 C-Line PM	44.44	22.1	-26.42
Kiln – 1 K-Line PM	47.99	22.7	-24.25
Kiln – 2 PM	79.49	23.3	-22.50
Cooler-1 PM	40.72	21.4	-28.75
Cooler-2 PM	42.56	17.6	-41.33
Raw Mill – 1 PM	12.56	21.3	-29.08
Raw Mill – 2 PM	8.46	20.5	-31.83
Raw Mill – 3 PM	10.90	22.0	-26.75
Coal Mill-1 PM	26.74	18.0	-39.92
Coal Mill-2 PM	8.06	19.9	-33.83
Cement Mill – 1 PM	5.52	17.7	-41.00
Cement Mill – 2 PM	3.29	16.5	-45.00
Cement Mill – 3 PM	11.56	20.3	-32.33
Packing Plant-1 PM	5.27	14.5	-51.67
Packing Plant-2 PM	5.66	15.6	-48.00
Packing Plant-3 PM	5.89	15.8	-47.42
Packing Plant-4 PM	11.09	17.9	-40.42
Primary Crusher-1 PM	4.46	18.4	-38.75
Secondary Crusher-1 PM	4.31	19.7	-34.50
Secondary Crusher-2 PM	4.33	19.4	-35.33
Tertiary Crusher-1 PM	9.72	19.6	-34.58
Tertiary Crusher-2 PM	31.92	19.2	-35.92
Kiln – 1 C-Line SO2	32.51	16.2	-83.85
Kiln – 1 K-Line SO2	43.77	20.7	-79.28
Kiln – 2 SO2	67.19	19.7	-80.35
Kiln – 1 C-Line NOX	465.15	231.1	-71.12
Kiln – 1 K-Line NOX	487.12	230.7	-71.17
Kiln – 2 NOX	826.91	241.9	-69.77

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PART - D
HAZARDOUS WASTE

As specified under
Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016

Hazardous Waste		Total Quantity, MT	
		During the previous financial Year 2021-22	During the current financial Year 2022-23
A.	**From Process**		
i.	Used Oil (5.1)	6.47	12.38
ii.	Oil Sludge (4.1)	3.15	3.0
iii.	Discarded empty barrels' (33.1)	10.95	4.21
B.	**From Pollution Control Facilities**	Nil	Nil

PART - E
SOLID WASTES

Solid Waste		Total Quantity, MT	
		During the previous financial Year 2021-22	During the current financial Year 2022-23
A.	**From Process**	Nil	Nil
B.	**From Pollution Control Facilities**		
i.	PCEs Dust	100% Recycled in to process	100% Recycled in to process
C.			
i.	Quantity recycled or re-utilized within the unit	NA	NA
ii.	Sold	NA	NA
iii.	Disposed	NA	NA

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PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Sl. No	Type of Wastes Generated / Handling	Nature of Waste	Disposal Pathway
1	Used Oil (5.1 of Schedule-I)	Hazardous	Authorized Re-processors / Recyclers
2	Oil Sludge (4.1 of Schedule-I)	Hazardous	Authorized Re-processors / Recyclers
3	Empty Barrel's (33.1 of Schedule-I)	Hazardous	Authorized Re-processors / Recyclers
4	Oil Soaked Cotton (33.2 of Schedule-I)	Hazardous	Co-Processing in the Cement Kiln
5	Lead Acid Batteries	Batteries	Authorized recycler & Buyback to vendors
6	E-Waste	E-Waste	Disposed to Authorized Recycler
7	ESP & Bag House Dust	Solid	Recycle back in to the process
8	Bio Medical Waste from OHC	Bio-Medical	Authorized Incinerators/ CBWTF
9	Liquid Waste - Effluent	Effluent	Treating & using Greenbelt/ dust suppression
10	Liquid Waste - Sewage	Sewage	Treating in STP & using for greenbelt
11	Bursted PP/HDPE Bags	Plastic	Authorized Re-processors / Recyclers

Sl. No	Type of Wastes Generated / Handling	Nature of Waste	Disposed Quantity, FY2022-23
1	Used Oil (5.1 of Schedule-I)	Hazardous	4.82 MT
2	Oil Sludge (4.1 of Schedule-I)	Hazardous	3.0 MT
3	Empty Barrel's (33.1 of Schedule-I)	Hazardous	3.79 MT
4	Lead Acid Batteries	Batteries	3.30 MT
5	E-Waste	E-Waste	0.92 MT
6	ESP & Bag House Dust	Solid	100% Recycled
7	Bio Medical Waste from OHC	Bio-Medical	0.023 MT
8	Liquid Waste - Effluent	Effluent	5275 KL
9	Liquid Waste - Sewage	Sewage	9825 KL
10	Bursted PP/HDPE Bags	Plastic	16.88 MT

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PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- We have been consistently using low grade limestone from mine in cement manufacturing process and thereby conserving the mineral and increasing the mine life.

- We have been treating effluent from Domestic sewage from residential colony to confirming the prescribing standards and then using to greenbelt development and dust suppression. Thus, the same amount of fresh is being conserved.

- Air Pollution Control Equipment such as Bag house, RABH, ESPs and Jet Pulse Filters are designed to control the particulate matter emissions below 30 mg/Nm^3 from any of the stationery sources form Cement Plant All these APCEs are very effective in arresting and putting back the recovered material (Dust) into the production line thus preventing the raw material, fuel, intermediate & finished products from getting lost in the atmosphere.

- We have been undertaken various energy efficiency improvement measures & process optimization which helped to significantly reduce the overall energy consumption to reduce carbon footprints. Thus, the pollution abatement & other energy conservation practices adopted by us save precious raw material/ fresh water and help in conserving natural resources.

- Further, we are using hazardous & nonhazardous Alternative Fuels & Raw Materials (AFR) from various other industries/ industrial sectors in cement manufacturing process to conserve the naturally sources coal and other raw materials.

PART – H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Greenbelt development is being carried out in phased manner with local and native plant species. As on date 67% of the total area developed with green cover.

- Fugitive dust emission control measures are in place such as deployment of road sweeping machines, closed material conveying system, raw material and finished products are stored in closed sheds and silos, all the material transfer points & silo tops are provided with bag filter, pneumatic handling of fly ash and water spraying on the material yards and roads.

- Adequate funds are earmarked for environmental management activities. Capital and recurring expenditure incurred for the same for the period FY2022-23 is tabulated as under.

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Environmental Revenue Expenses for 2022-23
Cement Plant/CPP/Mines

SL.NO	ENVIRONMENTAL PROTECTION MEASURES FUNDS	INR in Lakh
1	Environmental Monitoring Charges	8.0
2	Electricity Consumption Charges of Pollution Control Equipment's	565.48
3	Water Tanker/sprinklers fugitive dust control Maintenance Charges	4.23
4	Maintenance of Municipal solid waste/Road Sweeping in plant and residential colony charges	26.0
5	Maintenance & Treatment of sewage treatment plant cost	2.27
6	Maintenance cost of the pollution control devices and other protection measures.	45.1
7	CEMS and CAAQMS maintenance/calibration/data transfer/ AMC charges	3.23
8	Green Belt development charges	14.0
9	Energy Saving	24.71
10	Spillage and Leakage Arrest, Recycling, installation etc.	14.0
11	Environmental protection Miscellaneous charges (Awards, Training, Awareness, Protection, Optimization etc.)	3.0
	Total	**710 Lakhs**

Environmental Capex Expenses for 2022-23

SL.NO	ENVIRONMENTAL PROTECTION MEASURES FUNDS	INR in Lakh
1	Installation of Multi-Channel Burner for Process Optimization to Reduce GHG Emissions and Coal consumption.	354 Lakh
	Total	**354 Lakh**

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Additional Measures Proposed for Environmental Protection

- Increase in usage of Alternative Fuels and Raw Material (AFR).
- Increase in manufacturing of PPC grade cement.
- Consistent usage of low grade limestone in cement manufacturing process.
- Installation of new OCEMS at Mills to assess the air quality and take necessary mitigation measures.
- Installation of Digital Ground Water Level Monitor (Piezometer) in the Cement Plant/Colony.
- Installation of Vermi Composting unit in the Cement Plant/Colony.
- Conducting various awareness campaigns on Environmental & Sustainability aspects.

PART – I

Any other particulars for improving the quality of the environment.

- We have full-fledged Environmental Section to deal with monitoring & measurement of environmental parameters, compliance tracking, Green Belt development, operation and maintenance of CAAQMS & CEMS and STP Operations.
- We are having NABL accredited laboratory for quality parameters analysis.
- All the Air Pollution Control Equipment (APCE) are effectively operated and maintained for controlling the emissions below the prescribed standards.
- Installation of new APCEs wherever required for controlling of dust emissions.
- Covered sheds and silos have been constructed for raw material & finished products storage handling to control fugitive emissions.
- Practicing Zero Liquid Discharge (ZLD) from our premises.
- Adopted Integrated Management System, which include ISO 14001:2015 Environment Management Systems, ISO 9001:2015 Quality Management System and ISO 45001:2018 Occupational Health and Safety Management System.
- Strengthening of existing greenbelt by increase in density and plantation of saplings under Telangana Ku Haritha Haram program which is a State Govt. initiative.
- Organizing various environmental awareness activities.

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Annexure-1

Products & Raw Materials

1. Products Manufactured :	2022-23
Description of Product	**Production Quantity in MT**
Clinker	930308
Cement (OPC +PPC)	1305451

2. Raw Material Consumption in MT	2022-23
i. Limestone	1277695.7
ii. Waste Lime	3856.22
iii. Laterite	23805.31
iv. Al.Laterite	51641.53
v. Iron Ore	1309.21
vi. Pet Coke	39.47
vii. Chrome Sludge	456.91
viii. Pond Ash	0
ix. Org. Residue	122.52
x. Carbon Black	231.8
xi. Coal	187218.34
xii. Fly ash	440579.74
xiii. Gypsum	33948.4

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Annexure-2

Water Consumption & Waste Water Generation Details

1. Water Consumption, m^3

Month	Cement Plant	Domestic
	Mine Pit	Mine Pit
April'22	44742	24430
May'22	41365	23752
Jun'22	40396	22015
Jul'22	27405	21346
Aug'2	28351	20735
Sep'22	29391	24841
Oct'22	26369	23407
Nov'22	31648	20941
Dec'22	35686	23977
Jan'23	34792	23609
Feb'23	32870	19217
Mar'23	45566	18313
Total	**418581**	**266583**

2. Waste Water Generation, m^3

Month	Effluent Generated from Colony	Effluent Treated from STP
April'22	735	710
May'22	780	762
Jun'22	810	798
Jul'22	932	910
Aug'2	902	865
Sep'22	912	880
Oct'22	860	831
Nov'22	810	786
Dec'22	804	790
Jan'23	710	687
Feb'23	816	802
Mar'23	754	724
Total	**9825**	**9545**

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Annexure-3

Ambient Air Quality Monitoring Data

April'22 to March'23

Parameters	**PM_{10} ($\mu g/m^3$)**	**$PM_{2.5}$ ($\mu g/m^3$)**	**SO_2 ($\mu g/m^3$)**	**NO_x ($\mu g/m^3$)**
NAAQ Standards, CPCB Dated: 18.11.2009	**100**	**60**	**80**	**80**
Core Zone				
Near mines main gate	59.4	20.3	16.5	21.5
Near Power Plant Main gate	62.2	22.5	16.5	20.5
Near 132KVA Substation area	63.9	22.4	16.9	20.8
Near DM Plant	62.4	21.6	17.9	20.6
Buffer Zone				
Basanat Nagar Village	57.8	18.6	15.3	18.7
Near GD Nagar	58.2	19.5	15.5	19.4
Near Kannala Village	57.5	18.0	14.0	16.8
Near Director Building(Colony)	52.1	17.8	14.5	17.4
Top of Eng. Building	64.8	23.5	17.5	22.9
Near Above Time office	63.9	23.5	18.5	23.9
Near Palakurthy Village	57.2	18.5	14.2	17.9
Near Takkalapalli Village	59.5	19.0	15.2	18.6
Near Ramarao Palli Village	56.5	17.9	14.8	18.2

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Annexure-4

Stack Emission Monitoring Data

CEMENT PLANT			
Description of chimney attached to	**Apr- 2022 to Mar- 2023**		**% of variation from prescribed standard with reasons**
	Particulate Matter,SO2,NOX in mg/ Nm3	**CPCB Standards in mg/ Nm3**	
	PM	**PM**	
Kiln – 1 C-Line	22.1	30	Within the limits
Kiln – 1 K-Line	22.7	30	-do-
Kiln – 2	23.3	30	-do-
Cooler-1	21.4	30	-do-
Cooler-2	17.6	30	-do-
Raw Mill - 1	21.3	30	-do-
Raw Mill – 2	20.5	30	-do-
Raw Mill – 3	22.0	30	-do-
Coal Mill-1	18.0	30	-do-
Coal Mill-2	19.9	30	do-
Cement Mill – 1	17.7	30	-do-
Cement Mill – 2	16.5	30	-do-
Cement Mill – 3	20.3	30	-do-
Packing Plant-1	14.5	30	do-
Packing Plant-2	15.6	30	-do-
Packing Plant-3	15.8	30	-do-
Packing Plant-4	17.9	30	-do-
Pri Crusher-1	18.4	30	-do-
Sec Crusher-1	19.7	30	-do-
Sec Crusher-2	19.4	30	-do-
Ter Crusher-1	19.6	30	-do-
Ter Crusher-2	19.2	30	-do-
125KVA DG Set	45.7	115	do-
Line	**SO2**	**SO2**	
Kiln – 1 C-Line	16.2	100	do-
Kiln – 1 K-Line	20.7	100	do-
Kiln – 2	19.7	100	do-
125KVA DG Set	56.0	--	do-
Line	**NOX**	**NOX**	
Kiln – 1 C-Line	231.1	800	do-
Kiln – 1 K-Line	230.7	800	do-
Kiln – 2	241.9	800	do-
125KVA DG Set	76.5	--	do-

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Annexure-5

Effluent & Sewage Quality Monitoring

April'22 to March'23

Treated Sewage Parameter	UoM	Limits	Average Measured Concentration
PH	--	6.5-9.0	7.3
Total dissolved solids	mg/l	2100	737
Total Suspended solids	mg/l	100	17.7
Chemical oxygen demand	mg/l	250	60.3
Biochemical oxygen demand	mg/l	30	18.7
Oil & Grease	mg/l	10	2.1

Annexure-6

Ambient Noise Levels

April'22 to March'23

Sl.No	Monitoring Stations	CPCB Standard limits of Noise		Noise levels in dB (A)	
		Day time	Night time	Day time	Night time
	Core Zone				
1	Near Secondary Crusher	75	70	70.9	68.4
2	Near Time office	75	70	66.5	60.6
3	Near Kiln Section	75	70	67.2	63.5
4	Near Cement Mill area	75	70	70.8	66.9
5	Near Packing Plant	75	70	62.4	57.2
6	Near Coal Plant Area	75	70	69.5	62.1
7	Near Engg Building	75	70	68.5	62.1
8	Near Factory Boundary wall	75	70	65.2	57.8
9	Near Mines Main gate	75	70	57.9	50.2
10	Near Power Plant Main gate	75	70	62.5	59.8
	Buffer Zone				
11	Near Guest House(Colony)	55	45	53.7	41.6
12	Basantnagar Village	55	45	54.0	42.3
13	Palakurthy Village	55	45	56.1	43.2
14	Takkalapalli Village	55	45	55.2	42.8

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Annexure-7

Greenbelt Development

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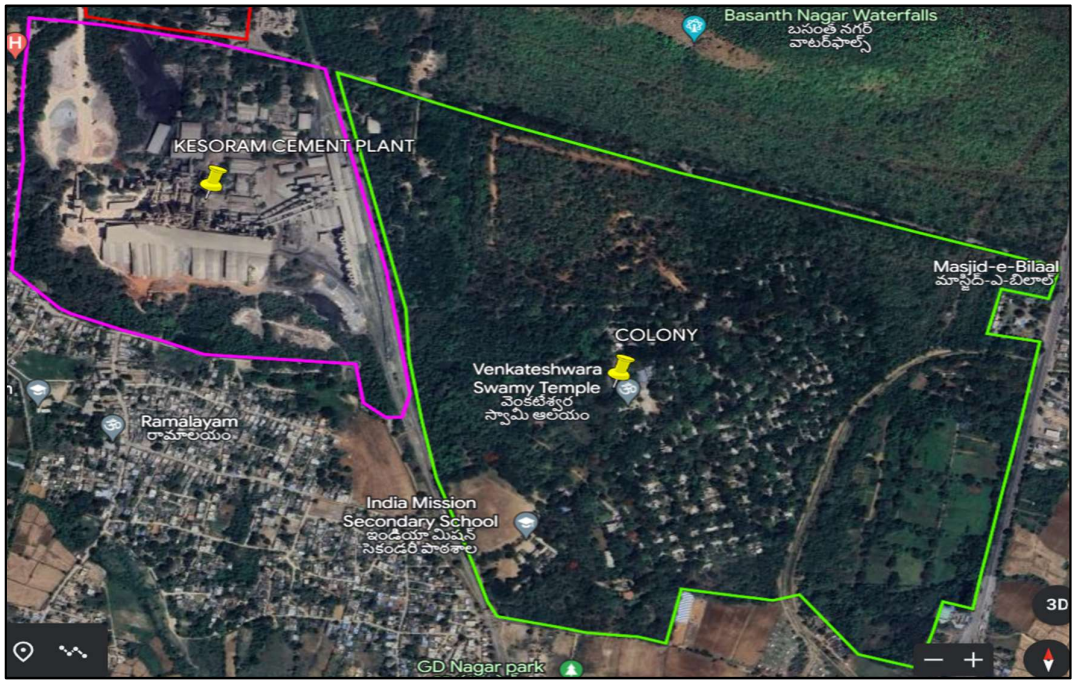

BIRLA SHAKTI CEMENT

Trusted Technology - Solid Strength

AFFORESTATION IN THE PLANT & COLONY




KESORAM

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Annexure-8

Fugitive Emission Control Measures

MATERIAL STORAGE PRACTICES

We have provided the Covered shed and Silos for the storage of all raw materials and Finished products.

1. COAL STORAGE SHED
2. LATERITE,GYPSUM,LIME
3. FLY ASH Silo
4. CEMENT SILO
5. CLINKER STORAGE

FUGITIVE EMISSIONS CONTROL MEASURES

We have provided the Enclosures, silo's, sheds, water sprinklers, Rain guns, Water Tanker, Water Jet ,TPS and concrete roads for control of fugitive emission in plant & Mines.

1. Dust Suppression
2. Road Sweeping& TPS Vehicle
3. Water tanker
4. MUCKPILE LOADING WITH WATER
5. WATER SPRINKLING
6. WET DRILLING

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AIR POLLUTION CONTROL EQUIPMENTS

1. KILN-2-BAG HOUSE
2. KILN-2-COOLER DCP BF
3. KILN-1-DPC BAGFILTER
4. CEMENT MILL-1 BAG HOUSE
5. COAL CRUSHER BAG FILTER
6. CEMENT MIILL -2 BAG FILTER

Air Pollution Control Equipments (APCEs) are provided for control of Stack emission & comply the prescribed standards.

ONLINE CONTINUOUS MONITORING SYSTEM

CAAQMS

CEMS ANALYZERS

ONLINE CONTINUOUS STACK EMISSION MONITORING SYSTEM

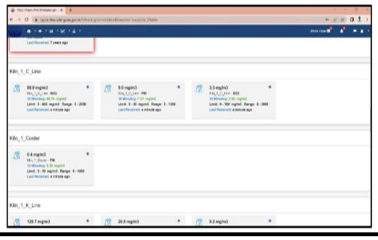
Weather monitoring station are provided for Real time Continuous Monitoring. Air Quality data is being transmitted online.

1. WEATHER MONITORING STATION
2. ONLINE DATA UPLOADING TO CPCB/SPCB

Web Portal Address

↓

SPCB : https://tspcb.rtms.telangana.gov.in
CPCB : https://tspcb.rtdms.cpcb.gov.in



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Annexure-9

Corporate Social Responsibility

Cement Plant/CPP/Mines

2022-23

S. No	SDG	Description of CSR	Details of Expenditure & work done	Village	Rs. In Lakhs
1	SDG-4	Quality Education	School Running Expenses at Kesoram Cements,Basantnagar	Basantnagar	124.99
2	SDG -3	Support to Health and Medical Services	Medical Expenses at Dispensary	Basantnagar	17.13
3	SDG -9	Support to Infrastructure	Flooring done in front of Lord Sri Konda Ramalayam	Esala Thakkallapalli	0.27
4	SDG -9	Support to Infrastructure	Construction of Compound wall and painting of Lord Sri Hanuman temple	GD Nagar	0.39
5	SDG -6	Support to Providing Drinking Water	Free summer water camps - 4 centres	Basantnagar	1.37
6	SDG -9	Support to Infrastructure	Painting of Goddess Peddamma temple excluding paints	Andugulapalli	0.06
7	SDG -6	Support to Sanitation	Donated bleaching powder- 4 bags	Esala Thakkallapalli	0.03
8	SDG -9	Support to Infrastructure	Painting of Lord Sri Laxminarsimha swamy Arch & statues	Devunipalli	0.15
9	SDG -9	Support to Infrastructure	Painting of Mahila sangam Room behind 10 bedded hospital	Basantnagar	0.09
10	SDG -9	Support to Infrastructure	Construction & Laying of Shed for Mahila sangam @ old police station	Behind 10 bedded hospital Basantnagar	1.19
11	SDG -15	Support to Biodiversity Conservation	Deer park maintenance	KC, Basantnagar	10.43
12	SDG -9	Support to Infrastructure	Painting of SI qtr & Jungle cutting-PS premises	Basatnagar	0.20
13	SDG -9	Support to Infrastructure	Painting of Lord Sri Chennakeshava Swamy temple-In view of Brahmotsavalu	Gudipelli	0.18
14	SDG -9	Support to Infrastructure	Repairs & Painting of Lord Sri Chennakeshava Swamy temple -In view of Brahmotsavalu	Palakurthy	0.37
15	SDG -9	Support to Infrastructure	Construction of Compound wall around Goddess Renuka Ellamma temple	Ranapoor	0.18
16	SDG -9	Support to Infrastructure	Painting of Lord Sri Kodanda Ramalayam	Ramaraopalli, Raginedu, Ranapoor	0.26

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17	SDG -6	Supporting for drinking water	Providing Drinking Water to Employees and Villagers	Basantnagar	1.00
18	SDG-13	Support to Biodiversity Conservation	Distribution of Trees Saplings	Basantnagar	0.30
				Total	**158.58**

CSR EXPENDITURE

Health Care Facilities

Drinking Water

R.O Drinking Water

Plantation

Education