

**ENVIRONMENT STATEMENT REPORT(FORM-V)  
FOR THE PERIOD APR-22 TO MAR-23**



**TAKKALLAPALLI  
LIMESTONE MINES**



**M/S KESORAM INDUSTRIES LIMITED  
POST: BASANTNAGAR – 505 187  
DIST: PEDDAPALLI (T.S)**



**B K BIRLA GROUP OF COMPANIES**



**Takkalapalli Limestone Mines**  
**Prop: Cement Division Unit of Kesoram Industries Ltd**  
Takkalapalli (V), Palakurthy (M), Peddapalli (Dist.), Telangana – 505187

**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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**PART – A**

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- |  |   |  |
|--|---|--|
| 1. Name and address of the owner/ occupier of the industry operation or process. | : | Shri. P. Radha Krishnan<br>Whole Time Director<br>Takkalapalli Limestone Mine<br>Cement Division Unit of Kesoram Industries Ltd.<br>Esala Takkalapalli(V), Palakurthy(M),<br>Peddapalli District, Telangana – 505187 |
| 2. Industry category   | : | Primary STC Code: NA<br>Secondary STC Code: NA   |
| 3. Production capacity   | : | Lime Stone – 3,50,000 TPA  |
| 4. Year of establishment   | : | 02.02.2004   |
| 5. Date of the last environmental statement submitted                            | : | 02 <sup>nd</sup> Sep, 2022   |
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**PART – B**

**WATER AND RAW MATERIAL CONSUMPTION**

<b>1. Water Consumption (M<sup>3</sup>/Day)</b>	:	<b>2022-23</b>
i. Greenbelt and Process	:	---

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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. Limestone	---	----

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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. HSD	Limestone	0.0104 KL/MT	0.0092 KL/MT
ii. Explosive	Limestone	0.0018	0.0032

**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
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**A. Water**

**Effluent Water:** Nil

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Pollutants	Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/Nm <sup>3</sup> )	Percentage of variation from prescribed standards with reasons
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**B. Air**

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*See Rule-14*

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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
<b>A. From Process</b>		
i. Used Vehicle Engine Oil (5.1)	Nil	Nil
<b>B. From Pollution Control Facilities</b>	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
<b>A. From Process</b>	Nil	Nil
<b>B. From Pollution Control Facilities</b>	Nil	Nil
<b>C.</b>		
i. Quantity recycled or re-utilized within the unit	Nil	Nil
ii. Sold	NA	NA
iii. Disposed	NA	NA



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**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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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	Top Soil	Solid	Used for Greenbelt Development
8	Over Burden	Solid	Used for backfilling/reclamation
9	Low Grade Limestone	Solid	Recycling in to Cement Manufacturing

Sl. No	Type of Wastes Generated / Handling	Nature of Waste	Disposed Quantity, FY2022-23
1	Used Oil (5.1 of Schedule-I)	Hazardous	Nil
2	Lead acid Batteries	Batteries	Nil
3	Over Burden	Solid	41966 MT
4	Top Soil	Solid	Nil
5	Low Grade Limestone	Solid	Nil



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**PART – G**

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

- Low grade limestone and sub-grade limestone mineral is used in the manufacturing process thus conserving the natural resources. Reclamation of mined out area and development of water storage reservoirs is done to facilitate increase in water regime in mined out areas.

**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.
- Fugitive dust emission control measures are in place such as deployment of water tanker for spraying, water sprinklers on haul roads, wet drilling and muck pile watering at loading.
- 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.



**Takkalapalli Limestone Mines**  
**Prop: Cement Division Unit of Kesoram Industries Ltd**  
Takkalapalli (V), Palakurthy (M), Peddapalli (Dist.), Telangana – 505187

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**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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

<b>SL.NO</b>	<b>ENVIRONMENTAL PROTECTION MEASURES FUNDS</b>	<b>INR in Lakh</b>
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
	<b>Total</b>	<b>710 Lakhs</b>

**Environmental Capex Expenses for 2022-23**

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



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**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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**PART – I**

**Any other particulars for improving the quality of the environment.**

- We have installed the mechanical dust Suppression system along the haulage road and Deployed dedicated water tanker from mine to cement plant for control of Fugitive Dust emissions.
- No drilling and blasting operation is carried out during high windy periods, night times and Temperature inversion periods.
- Shock tube bottom initiated latest systems of blasting techniques are used and adopted by wet drilling and using safe blasting techniques.
- 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.
- Organizing various environmental awareness activities.
- Monitoring Ambient and Work Zone Air, Noise Quality, Soil and Water Quality in Core and Buffer areas to assess the air quality and take necessary mitigation measures.
- The natural drainage of water garland drains of requisite size were constructed along the Dumps and other areas to arrest silt and sediments.
- Oil traps and oil water separator will be used to separate oil from runoff water.
- Drilling and blasting operation is carried out day time only.
- Regular lubricating to equipment and maintaining engineering controls schedules.
- Regular vibration monitoring and taking corrective action when it goes high. Using proper acoustic guards/ silencers wherever required where noise level is high.
- The OB dumps are retreating pyramid bench formation, compacted, leveled, properly drained and vegetated with native species.
- Good Housekeeping is being maintained at all areas of the plant. Leakage material is being recycled back into the process. Dust bins are provided at all the areas for source segregation of waste. Adequate road sweeping machines are being used for cleaning of roads.
- Greenbelt developed is maintained with Local adaptive native species around the mines lease area, roads, OB dump sites etc.





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**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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[Annexure-1](#)

**Products & Raw Materials**

<b>1. Products Manufactured</b>	
<b>Description of Product</b>	<b>Production Quantity in MT</b>
Lime Stone	20000

<b>2. Raw Material Consumption</b>	
<b>Description of Raw Material</b>	<b>Quantity Consumption in MT</b>
<b>Fuels</b>	
HSD	138026 L
<b>Consumable Explosive Materials</b>	
Ammonium Nitrate	30660 kg's
Slurry Explosives	34798 kg's
Detonators	94 No's
Fuse	3376 Meters



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**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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[Annexure-2](#)

**Ambient Air Quality Monitoring Data**

**April'22 to March'23**

Parameters	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
<b>NAAQ Standards, CPCB Dated: 18.11.2009</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>
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
Near Palakurthy Village	57.2	18.5	14.2	17.9
Near Takkalapalli Village	59.5	19.0	15.2	18.6
Near Ramaraopalli Village	56.5	17.9	14.8	18.2



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[Annexure-3](#)

**Ambient Noise Monitoring Data**

**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
	<b>Core Zone</b>				
1	Mines Office	75	70	66.9	57.3
2	Near Haulage Road	75	70	67.5	58.9
3	Near Loading Area	75	70	73.9	64.8
4	Near Dumper Cabin	75	70	72.2	62.0
5	Near Crusher Hopper	75	70	72.8	63.2
6	Near Drilling Cabin	75	70	73.6	66.4
7	Near Dozing Area	75	70	70.6	59.9
	<b>Buffer Zone</b>				
8	Near Guest House(Colony)	55	45	53.7	41.6
9	Basantnagar Village	55	45	54.0	42.3
10	Palakurthy Village	55	45	51.6	42.2
11	Takkalapalli Village	55	45	51.8	43.4

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**Annexure-4**

**Greenbelt Development**

**PLANTATION AT MINES**




**PLANTATION ALONG THE ROADS**





**Fugitive Emission Control Measures**













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### 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 Supression
- 2. Road Sweeping & TPS Vehicle
- 3. Water tanker
- 4. MUCKPILE LOADING WITH WATER
- 5. WATER SPRINKLING
- 6. WET DRILLING





**Trusted Technology - Solid Strength**

### DUST FREE OPERATION AT MINES



**MUCK-PILE LOADING**

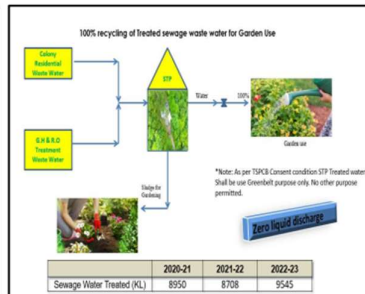
**A.C Cabin**

**Water reservoirs in mined out area**



**Water Conservation**

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**TPH Water Reservoir**

**Mines Water Reservoir**



**RAIN WATER HARVESTING AT MINES AREA**





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**AWARENESS PROGRAMMES ON ENVIRONMENT**



**Trusted Technology - Solid Strength**

**PRIZES WON IN ME&MC WEEK**

**Basantnagar Limestone Mining Lease**

- 1<sup>st</sup> Prize in Mineral Beneficiation
- 1<sup>st</sup> Prize in Mineral Conservation
- 2<sup>nd</sup> Prize in Waste Dump Management
- 2<sup>nd</sup> Prize in reclamation & Rehabilitation



**Takkalapalli Limestone Mining Lease**

- 3<sup>rd</sup> Prize in Mineral Beneficiation
- 3<sup>rd</sup> Prize in Waste Dump Management

**FIMI Environmental National Award**





**Takkalapalli Limestone Mines**  
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[Annexure-6](#)

**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
				<b>Total</b>	<b>158.58</b>



**ENVIRONMENT STATEMENT REPORT (FORM-V)  
FOR THE PERIOD APR-22 TO MAR-23**



**BASANTNAGAR  
LIME STONE MINES**



**M/S KESORAM INDUSTRIES LIMITED  
POST: BASANTNAGAR – 505 187  
DIST: PEDDAPALLI (TS)**



B K BIRLA GROUP OF COMPANIES



**Basantnagar Limestone Mines**  
**Prop: Cement Division Unit of Kesoram Industries Ltd**  
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**FORM-V**  
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**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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**PART – A**

- 
- |  |   |   |
|--|---|---|
| 1. Name and address of the owner/ occupier of the industry operation or process. | : | Shri. P. Radha Krishnan<br>Whole Time Director<br>Basantnagar Limestone Mine<br>Cement Division Unit of Kesoram Industries Ltd.<br>Basantnagar, Palakurthy Mandal,<br>Peddapalli District, Telangana – 505187 |
| 2. Industry category   | : | Primary STC Code: NA<br>Secondary STC Code: NA  |
| 3. Production capacity   | : | Lime Stone – 19,50,000 TPA  |
| 4. Year of establishment   | : | 07.10.1967  |
| 5. Date of the last environmental statement submitted                            | : | 02 <sup>nd</sup> Sep, 2022  |
- 

**PART – B**

**WATER AND RAW MATERIAL CONSUMPTION**

<b>1. Water Consumption (M<sup>3</sup>/Day)</b>	<b>:</b>	<b>2022-23</b>
i. Greenbelt and Process	:	51.42
ii. Domestic	:	1.71

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. Limestone	0.013	0.016

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**Basantnagar Limestone Mines**  
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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. HSD	Limestone	0.00061 KL/MT	0.00069 KL/MT
ii. Explosive	Limestone	0.000260	0.000328

**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
<b>A. Water</b>			

**Effluent Water:** Nil

**Garage Vehicle Effluent tank Outlet Water:** Details are mentioned as under

i. pH	NA	7.56	Within the Limits
ii. Total Suspended Solids(TSS)	0.31	12.0	-88.0 %
iii. Total Dissolved Solids(TDS)	19.3	740	-64.7%
iv. Oil & Grease	0.91	3.5	-65.0 %
v. Bio Chemical Oxygen(BOD)	0.15	6.0	-94.0 %
vi. Chemical Oxygen(COD)	0.41	16.0	-93.6 %



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Pollutants	Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/Nm <sup>3</sup> )	Percentage of variation from prescribed standards with reasons
<b>B. Air</b>			
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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
<b>A. From Process</b>		
i. Used Vehicle Engine Oil (5.1)	Nil	Nil
<b>B. From Pollution Control Facilities</b>	Nil	Nil



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**PART - E**  
**SOLID WASTES**

Solid Waste	Total Quantity, MT	
	During the previous financial Year 2021-22	During the current financial Year 2022-23
<b>A. From Process</b>	Nil	Nil
<b>B. From Pollution Control Facilities</b>	Nil	Nil
<b>C.</b>		
i. Quantity recycled or re-utilized within the unit	Nil	Nil
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	Top Soil	Solid	Used for Greenbelt Development
8	Over Burden	Solid	Used for backfilling/reclamation
9	Low Grade Limestone	Solid	Recycling in to Cement Manufacturing

Sl. No	Type of Wastes Generated / Handling	Nature of Waste	Disposed Quantity, FY2022-23
1	Used Oil (5.1 of Schedule-I)	Hazardous	Nil
2	Lead acid Batteries	Batteries	Nil
3	Over Burden	Solid	2763830 MT
4	Top Soil	Solid	Nil
5	Low Grade Limestone	Solid	Nil



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**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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**PART – G**

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

- Low grade limestone and sub-grade limestone mineral is used in the manufacturing process thus conserving the natural resources. Reclamation of mined out area and development of water storage reservoirs is done to facilitate increase in water regime in mined out areas.

**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 53.1% of the total area developed with green cover.
- Fugitive dust emission control measures are in place such as deployment of water tanker for spraying, water sprinklers on haul roads, wet drilling and muck pile watering at loading.
- 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.





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

<b>SL.NO</b>	<b>ENVIRONMENTAL PROTECTION MEASURES FUNDS</b>	<b>INR in Lakh</b>
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
	<b>Total</b>	<b>710 Lakhs</b>

**Environmental Capex Expenses for 2022-23**

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



**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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**PART – I**

**Any other particulars for improving the quality of the environment.**

- We have installed the mechanical dust Suppression system along the haulage road and Deployed dedicated water tanker from mine to cement plant for control of Fugitive Dust emissions.
- No drilling and blasting operation is carried out during high windy periods, night times and Temperature inversion periods.
- Shock tube bottom initiated latest systems of blasting techniques are used and adopted by wet drilling and using safe blasting techniques.
- 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.
- Organizing various environmental awareness activities.
- Monitoring Ambient and Work Zone Air, Noise Quality, Soil and Water Quality in Core and Buffer areas to assess the air quality and take necessary mitigation measures.
- The natural drainage of water garland drains of requisite size were constructed along the Dumps and other areas to arrest silt and sediments.
- Oil traps and oil water separator will be used to separate oil from runoff water.
- Drilling and blasting operation is carried out day time only.
- Regular lubricating to equipment and maintaining engineering controls schedules.
- Regular vibration monitoring and taking corrective action when it goes high. Using proper acoustic guards/ silencers wherever required where noise level is high.
- The OB dumps are retreating pyramid bench formation, compacted, leveled, properly drained and vegetated with native species.
- Good Housekeeping is being maintained at all areas of the plant. Leakage material is being recycled back into the process. Dust bins are provided at all the areas for source segregation of waste. Adequate road sweeping machines are being used for cleaning of roads.
- Greenbelt developed is maintained with Local adaptive native species around the mines lease area, roads, OB dump sites etc.



**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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[Annexure-1](#)

**Products & Raw Materials**

<b>1. Products Manufactured</b>	
<b>Description of Product</b>	<b>Production Quantity in MT</b>
Lime Stone	1130000

<b>2. Raw Material Consumption</b>	
<b>Description of Raw Material</b>	<b>Quantity Consumption in MT</b>
<b>Fuels</b>	
HSD	782145 L
<b>Consumable Explosive Materials</b>	
Ammonium Nitrate	173740 kg's
Slurry Explosives	197190 kg's
Detonators	532 No's
Fuse	19129 Meters



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

**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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[Annexure-2](#)

**Water Consumption & Waste Water Generation Details**

<b>1. Water Consumption, m<sup>3</sup></b>					
<b>Month</b>		<b>Greenbelt and Process</b>		<b>Domestic</b>	
		<b>Mine Pit</b>		<b>Ground Water</b>	
1	April'22	1661		56	
2	May'22	1869		50	
3	Jun'22	1505		60	
4	Jul'22	385		40	
5	Aug'22	935		60	
6	Sep'22	1720		55	
7	Oct'22	1700		45	
8	Nov'22	1795		50	
9	Dec'22	1630		45	
10	Jan'23	1780		50	
11	Feb'23	1872		65	
12	Mar'23	1918		50	
<b>Total</b>		<b>18770</b>		<b>626</b>	



**Basantnagar Limestone Mines**  
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**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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[Annexure-3](#)

**Ambient Air Quality Monitoring Data**

**April'22 to March'23**

Parameters	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
<b>NAAQ Standards, CPCB Dated: 18.11.2009</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>
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
Near Palakurthy Village	57.2	18.5	14.2	17.9
Near Takkalapalli Village	59.5	19.0	15.2	18.6
Near Ramaraopalli Village	56.5	17.9	14.8	18.2



**Basantnagar Limestone Mines**  
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**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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[Annexure-4](#)

**Effluent Water Quality Monitoring**

<b>Treated Effluent Parameters</b>	<b>UoM</b>	<b>Limits</b>	<b>Average Measured Concentration</b>
PH	--	6.5-8.5	7.56
Total dissolved solids	mg/l	2100	740
Total Suspended solids	mg/l	100	12.0
Chemical oxygen demand	mg/l	250	16.0
Biochemical oxygen demand (3 Days at 27°C)	mg/l	100	6.0
Oil & Grease	mg/l	10	3.5



**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

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[Annexure-5](#)

**Ambient Noise Monitoring Data**

**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
	<b>Core Zone</b>				
1	Mines Office	75	70	66.9	57.3
2	Near Haulage Road	75	70	67.5	58.9
3	Near Loading Area	75	70	73.9	64.8
4	Near Dumper Cabin	75	70	72.2	62.0
5	Near Crusher Hopper	75	70	72.8	63.2
6	Near Drilling Cabin	75	70	73.6	66.4
7	Near Dozing Area	75	70	70.6	59.9
	<b>Buffer Zone</b>				
8	Near Guest House(Colony)	55	45	53.7	41.6
9	Basantnagar Village	55	45	54.0	42.3
10	Palakurthy Village	55	45	51.6	42.2
11	Takkalapalli Village	55	45	51.8	43.4





**FORM-V**  
See Rule-14

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

**Annexure-6**

**Greenbelt Development**

**PLANTATION AT MINES**



**PLANTATION ALONG THE ROADS**

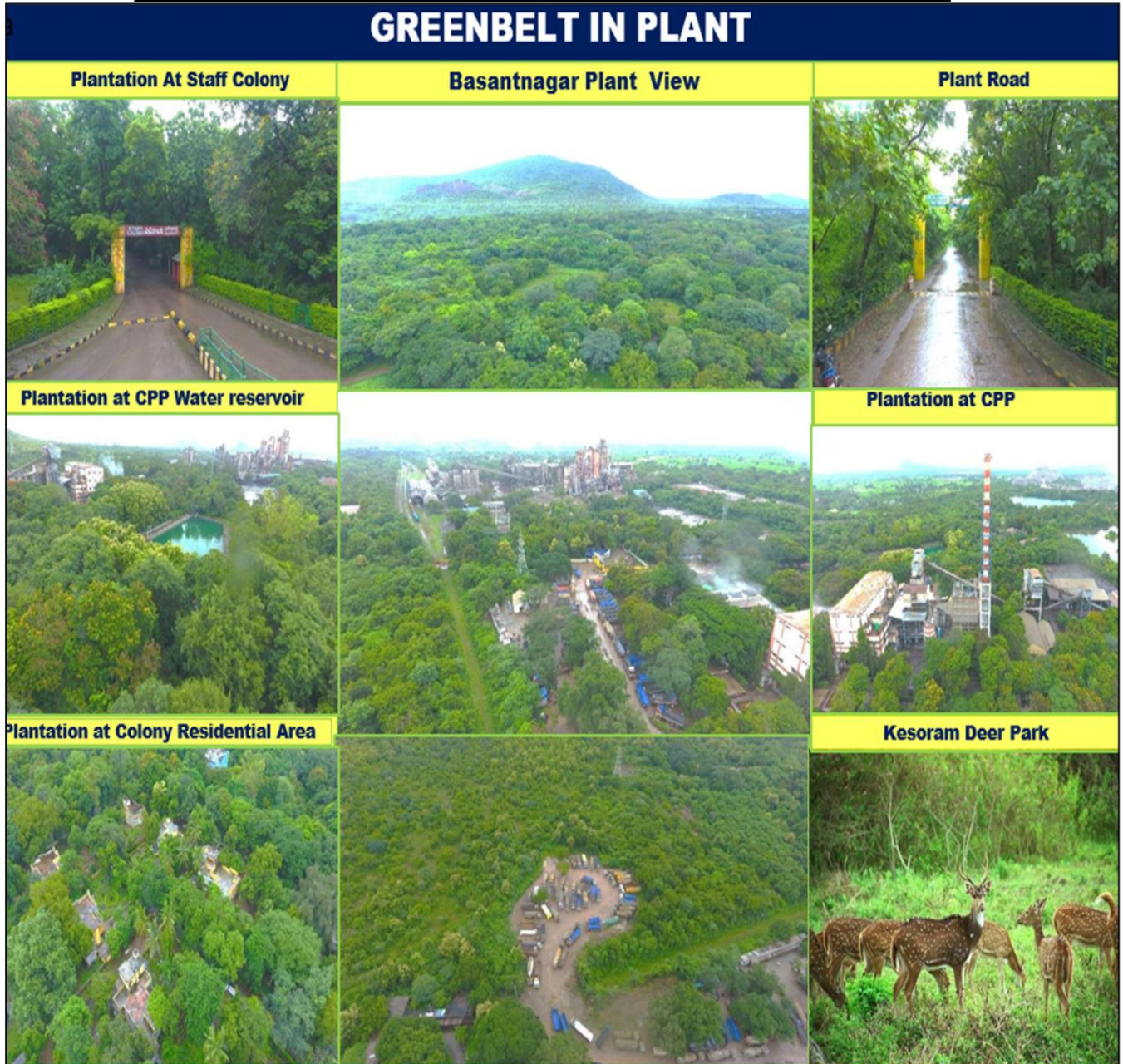






**FORM-V**  
See Rule-14

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**







**FORM-V**  
See Rule-14

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

**AFFORESTATION ON THE WASTE DUMP**



**GREENBELT DEVELOPED ON BACK FILLED AREA**



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**AFFORESTATION IN THE PLANT & COLONY**








**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

Annexure-7

**Fugitive Emission Control Measures**









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**FUGITIVE EMISSIONS CONTROL MEASURES**

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**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 Supression
- 2. Road Sweeping& TPS Vehicle
- 3. Water tanker
- 4. MUCKPILE LOADING WITH WATER
- 5. WATER SPRINKLING
- 6. WET DRILLING



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**DUST FREE OPERATION AT MINES**



**MUCK-PILE LOADING**



**A.C Cabin**



**FORM-V**  
 See Rule-14

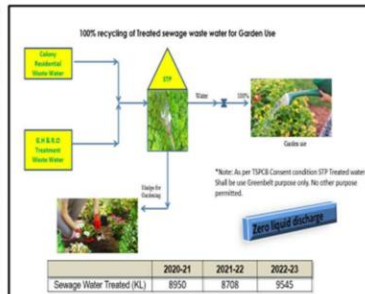
**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

**Water reservoirs in mined out area**



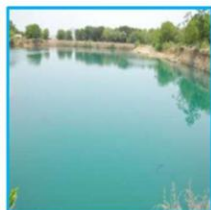
**Water Conservation**

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TPH Water Reservoir

Mines Water Reservoir



**RAIN WATER HARVESTING AT MINES AREA**







**FORM-V**  
 See Rule-14

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**



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**AWARENESS PROGRAMMES ON ENVIRONMENT**



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**PRIZES WON IN ME&MC WEEK**

**Basantnagar Limestone Mining Lease**

- 1<sup>st</sup> Prize in Mineral Beneficiation
- 1<sup>st</sup> Prize in Mineral Conservation
- 2<sup>nd</sup> Prize in Waste Dump Management
- 2<sup>nd</sup> Prize in reclamation & Rehabilitation



**Takkalapalli Limestone Mining Lease**

- 3<sup>rd</sup> Prize in Mineral Beneficiation
- 3<sup>rd</sup> Prize in Waste Dump Management

**FIMI Environmental National Award**





**Basantnagar Limestone Mines**  
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 Basantnagar (V), Palakurthy (M), Peddapalli (Dist.), Telangana – 505187

**FORM-V**  
*See Rule-14*

**Environmental Statement for the financial year ending with 31<sup>st</sup> March 2023**

Annexure-8

**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





**FORM-V**  
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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
				<b>Total</b>	<b>158.58</b>

