



# SHREE CEMENT LTD.

An ISO 9001, 14001, 45001 & 50001 Certified Company

Regd. Office:

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SCL/BWR/ENV/Shyamgarh/2021-22/ 7119

Date: 27/09/2021

To,  
**The Member Secretary,**  
**Rajasthan Pollution Control Board,**  
4, Institutional Area, Jhalana Doongri Road,  
JAIPUR-302004 (Rajasthan).

**Sub:** - Submission of Environmental Statement Report of Shyamgarh Limestone (M.L. No.8/99) of M/s Shree Cement Ltd, Village – Andheri Deori, Tehsil Masuda, District Ajmer (Raj) for the FY-2020-2021 (April-2020 to March-2021) under environment protection Act, 1986.

**Ref:** - CTO letter no. F (Mines)/Ajmer (Masuda)/1174(1)/2019-2020/226-230 dated 22/04/2019.

Dear Sir,

With reference to the above subject and referred CTO letter, we are submitting herewith the Environmental Statement (in Form-V) as per Rule 14 of EP Rules, 1986 of Shyamgarh Limestone (M.L. No.8/99) of M/s Shree Cement Limited situated Near Village – Andheri Deori, Tehsil Masuda, District Ajmer (Raj). For the period from 1<sup>st</sup> April 2020 to 31<sup>st</sup> March 2021.

Submitted for your kind information and record please.

Thanking you,  
Yours faithfully,

For Shree Cement Ltd;

(Dr. Anil Kumar Trivedi)  
Sr. G.M. Environment

Copy to:-

1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur, A-209&218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan.
2. The in charge (Regional office), Rajasthan State Pollution Control Board, SPL-II, 5th phase, RIICO Industrial Area, Kishangarh, Ajmer (Raj).

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015  
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STATE OF NEW YORK

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## **ENVIRONMENTAL STATEMENT**

### **FORM – V**

**M/s Shree Cement Limited – Shyamgarh Limestone Mine.**

**Beawar (Rajasthan)**

**Period from : April, 2020 to : March, 2021**

### **PART – A**

1.	Name and address of the Owner / Occupier of the Industry operation or process	Shyamgarh Limestone Mine located at near Village-Shyamgarh Neemgarh, Tehsil-Masuda, District-Ajmer (M.L.No. 8/99). of M/s Shree Cement Ltd., P.B. No. 33, Bangur Nagar, Beawar -305901, Distt. Ajmer (Raj.)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	2.0 MTPA
4.	Year of Establishment	2020
5.	Date of the last Environmental Statement submitted	-

### **PART – B**

## **WATER AND RAW MATERIAL CONSUMPTION**

### **1. WATER CONSUMPTION:**

Process : 28814 (As Mine is operating based on dry process technology common)

Cooling and dust : N.A.

Suppression

Domestic : 224047 KL (Common for Cement Plants Mines & Power Plants)

Name of Product	Process Water Consumption per Unit of Limestone Output	
	During Current Financial Year (2019-20) (KL/MT of Limestone)	During Current Financial Year (2020-21) (KL/MT of Limestone)
Limestone	-	0.0295



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The University of Chicago is a private research university in Chicago, Illinois. It was founded in 1837 and is one of the oldest and most prestigious universities in the United States. The university is known for its commitment to academic excellence and its diverse student body.

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**2. RAW MATERIAL CONSUMPTION:**

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (MT of Limestone)	
		During Previous Financial Year (2018-19)	During Current Financial Year (2019-20)
Not applicable, as only limestone excavation is being done from this mine.	Limestone	Not Applicable	Not Applicable

**3. POWER CONSUMPTION (KWH/T):**

During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
-	0.011

**4. TOTAL LIMESTONE PRODUCTION (in Lac Tonnes):**

During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
-	9.74

**PART – C**

**DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT**

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a) Water	No waste water generated from the mining process. Waste water generated from the office toilets is disposed into soak pit via septic tank. There is no industrial waste water generation. Maintenance of HEMMs and other vehicles is being carried out in our existing SK mines workshop.		
(b) Air	Please refer Annexure 1		
(c) Noise	Please refer Annexure-2		





## PART – D

### HAZARDOUS WASTE

(As specified under Hazardous & Other Wastes (Management & Trans boundary Movement Rule, 2016) & Amendment rule, 2019.

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2019-2020)	During Current Financial Year (2020-2021)
a) From Process (Limestone Excavation is based on “Dry Process” No Hazardous waste is generated from the mining process except used oil which is drained from Machinery / Equipments)	<p>We have Common authorization for Hazardous Waste Management &amp; Handling for Cement Plant (Unit 1 &amp; 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines.</p> <p>Total Quantity generated from April-2019 to March-2020 = 1200 Ltrs.</p> <p>Old Stock = 0 Ltrs.</p> <p>Total Used oil = 1200 Ltrs.</p> <p>Sold-out to registered recycler = 0 Ltrs.</p> <p>Quantity Co- processed = 1200 Ltrs.</p> <p>Balance Quantity= 0 Ltrs</p>	<p>For Hazardous Waste Management &amp; Handling for Cement Plant (Unit 1 &amp; 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines.</p> <p>Total Quantity generated from April-2020 to March-2021 = 12600 Ltrs.</p> <p>Old Stock = 0 Ltrs.</p> <p>Total Used oil = 12600 Ltrs.</p> <p>Sold-out to registered recycler = 12600 Ltrs.</p> <p>Quantity Co- processed = 0 Ltrs.</p> <p>Balance Quantity= 0 Ltrs</p>
(b) From Pollution Control Facilities	N.A.	N.A.

Table 1

Physical Properties of the Polymers

The physical properties of the polymers were determined by standard methods. The data are summarized in Table 1.

Polymers 1-4

Polymers 5-8

Polymers 9-12

Polymers 13-16

Polymers 17-20

Polymers 21-24

Polymers 25-28

Polymers 29-32

Polymers 33-36

Polymers 37-40

Polymers 41-44

Polymers 45-48

Polymers 49-52

Polymers 53-56

Polymers 57-60

Polymers 61-64

Polymers 65-68

Polymers 69-72

Polymers 73-76

Polymers 77-80

Polymers 81-84

Polymers 85-88

Polymers 89-92

Polymers 93-96

Polymers 97-100

Polymers 101-104

Polymers 105-108

Polymers 109-112

Polymers 113-116

Polymers 117-120

Polymers 121-124

Polymers 125-128

Polymers 129-132

Polymers 133-136

Polymers 137-140

Polymers 141-144

Polymers 145-148

Polymers 149-152

Polymers 153-156

Polymers 157-160

Polymers 161-164

Polymers 165-168

Polymers 169-172

Polymers 173-176

Polymers 177-180

Polymers 181-184

Polymers 185-188

Polymers 189-192

Polymers 193-196

Polymers 197-200

Polymers 201-204

Polymers 205-208

Polymers 209-212

Polymers 213-216

Polymers 217-220

Polymers 221-224

Polymers 225-228

Polymers 229-232

Polymers 233-236

Polymers 237-240

Polymers 241-244

Polymers 245-248

Polymers 249-252

Polymers 253-256

Polymers 257-260

Polymers 261-264

Polymers 265-268

Polymers 269-272

Polymers 273-276

Polymers 277-280

Polymers 281-284

Polymers 285-288

Polymers 289-292

Polymers 293-296

Polymers 297-300

Polymers 301-304

Polymers 305-308

Polymers 309-312

Polymers 313-316

Polymers 317-320

Polymers 321-324

Polymers 325-328

Polymers 329-332

Polymers 333-336

Polymers 337-340

Polymers 341-344

Polymers 345-348

Polymers 349-352

Polymers 353-356

Polymers 357-360

Polymers 361-364

Polymers 365-368

Polymers 369-372

Polymers 373-376

Polymers 377-380

Polymers 381-384

Polymers 385-388

Polymers 389-392

Polymers 393-396



**PART – E**  
**SOLID WASTE**

		Total Quantity	
		During Previous Financial Year (2019-2020)	During Current Financial Year (2020-2021)
(a)	From Process	Nil	
(b)	From Pollution Control Facility	Dust collected in the ESPs, Bag Houses and Bag Filters are recycled to the system.	
(c)	1. Quantity rejected or re-utilized within the unit	100% reutilized within the unit.	
	2. Sold	Not Applicable	
	3. Disposed: During the mining of limestone disposed of overburden (in Lac Tonnes)	-	1.55

**PART – F**

**Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes:**

**Battery Wastes:**

As specified under Batteries (Management and Handling) Amendment Rules, 2010, we have purchased following new batteries of different categories is common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines:-

2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer/dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent	During 1 <sup>st</sup> Apr. 2020 to 31 <sup>st</sup> Mar. 2021
	Common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines	

# TABLE I

Summary of the results of the experiments conducted in the laboratory of the U.S. Army Medical Research and Development Command, Fort Detrick, Maryland, during the period from 1958 to 1960.

The results of the experiments conducted in the laboratory of the U.S. Army Medical Research and Development Command, Fort Detrick, Maryland, during the period from 1958 to 1960, are summarized in Table I. The table is divided into two main sections, A and B, which are further subdivided into numbered categories.

The results of the experiments conducted in the laboratory of the U.S. Army Medical Research and Development Command, Fort Detrick, Maryland, during the period from 1958 to 1960, are summarized in Table I. The table is divided into two main sections, A and B, which are further subdivided into numbered categories.

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Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
(i) Automotive		
a) Four wheeler	85	3.570
b) Two wheeler	15	0.030
(ii) Industrial	Nil	Nil
a) UPS	133	2.660
b) Motive Power	Nil	Nil
c) Stand –by	Nil	Nil
(iii) Others	Nil	Nil
Total	<b>233 Nos.</b>	<b>6.26 MT</b>

Used battery scrap was sent to CPCB authorized recycler

### **Hazardous Wastes**

No Hazardous waste is generated from the mining process except used oil which is drained from Machineries / Equipment's. The used oil & Lead acid batteries are sold to CPCB authorized recyclers and used oil also co-processed in cement kiln.

### **Bio-Medical Wastes:**

Bio-medical waste generated is common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines during previous and current financial year under the Bio-Medical Waste (Management & Handling) Rules 2016 & amended on 2019, are as follows:

<b>Bio-Medical Waste Quantity (Kg) as per Color Coding</b>							
<b>During Previous Financial Year (April 2019 to March 2020)</b>				<b>During Current Financial Year (April 2020 to March 2021)</b>			
<b>Yellow</b>	<b>Red</b>	<b>Blue</b>	<b>White</b>	<b>Yellow</b>	<b>Red</b>	<b>Blue</b>	<b>White</b>
<b>282</b>	<b>219</b>	<b>247</b>	<b>0.0</b>	<b>234</b>	<b>205</b>	<b>211</b>	<b>0.0</b>

Above mentioned waste has been sent to Sales Promoter, CBWTF Bio Medical Treatment Facility, Jaipur Bye Pass Road, Ajmer (Raj.) for disposal.





## **E- Wastes:**

	Total Quantity	
	During Current Financial Year (2019-2020)	During Current Financial Year (2020-2021)
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil
Others (kg)	0.0	11.86

**Solid Wastes:** Solid waste from the mines is overburden (waste rock) is being handled by shovel & dumper combination from working face and dumped systematically at overburden dump yard. The total overburden generated from April 2020 to March 2021 was 1.55 Lac Metric Tons.

### **PART – G**

#### **IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION**

- 1). Low grade limestone is used with high grade limestone for conservation of limestone.
- 2). Fine mist water spraying system is installed for water spraying on haulage roads.

### **PART – H**

#### **ADDITIONAL MEASURES / INVESTMENTS PROPOSAL FOR ENVIRONMENT PROTECTION INCLUDING ABATEMENT OF POLLUTION**

- 1). Blasting is being done by using of shock tube detonators (Down line detonators in combination of Noise less trunk line detonators) which is latest technology available, resulting in reduction of noise level and ground vibration to a great extent.
- 2). Unit is using rock breakers for breaking of oversized boulders instead of secondary blasting which eliminated vibration, noise, fly rocks & reducing greenhouse gases which have caused due to secondary blasting.
- 3). Massive plantation has been carried out within and outside mine lease area. Up to March 2021, the total 2720 nos of trees have been planted.
- 4). Operator independent truck dispatch system has been installed for reducing down time heavy earth equipment thereby reducing emissions.
- 5). Closed unloading hopper with water sprinkling arrangement is provided for unloading of limestone.





Environment expenditure incurred in the year of 2020-21 (April -2020 to March-2021) was 4.48 (cost in lac). The expenditure in same heads is proposed for next year.

### **PART – I**

#### **ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.**

- 1). Wet drilling is being done.
- 2). Regular water spraying is being done on haulage roads and near loading places for effective dust suppression.
- 3). Controlled blasting is being done by the use of non-electric down line detonators and noise less trunk line detonators, resulting in reduction of noise level and ground vibrations to a great extent.
- 4). Secondary rock breaker is used for breaking limestone boulders instead of secondary blasting which is ecofriendly.
- 5). Personal protective equipment's (PPEs) provided to all mine employees i.e. dust mask, ear plug & ear muff, eye goggle etc.
- 6). Regular monitoring of ambient air quality for PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> NO<sub>2</sub> & CO and Noise level is being done at Mines. An environmental laboratory is exist for the same.

Following documents/ annexures are enclosed herewith for ready reference:-

Annexure-1 : Ambient Air Quality

Annexure-2 : Ambient Noise Level monitoring report.

Annexure-3 : Organizational Structure for Environment Management

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1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations

$$\begin{cases} \Delta u = f(x, y, z, u, v, w) \\ \Delta v = g(x, y, z, u, v, w) \\ \Delta w = h(x, y, z, u, v, w) \end{cases} \quad (1)$$

where  $\Delta$  is the Laplace operator,  $f, g, h$  are given functions, and  $u, v, w$  are unknown functions. The second part of the paper is devoted to the study of the properties of the solutions of the system (1).

2. In the third part of the paper, we consider the problem of the existence of solutions of the system of equations

$$\begin{cases} \Delta u = f(x, y, z, u, v, w) \\ \Delta v = g(x, y, z, u, v, w) \\ \Delta w = h(x, y, z, u, v, w) \end{cases} \quad (2)$$

where  $\Delta$  is the Laplace operator,  $f, g, h$  are given functions, and  $u, v, w$  are unknown functions. The fourth part of the paper is devoted to the study of the properties of the solutions of the system (2).

3. In the fifth part of the paper, we consider the problem of the existence of solutions of the system of equations

$$\begin{cases} \Delta u = f(x, y, z, u, v, w) \\ \Delta v = g(x, y, z, u, v, w) \\ \Delta w = h(x, y, z, u, v, w) \end{cases} \quad (3)$$

where  $\Delta$  is the Laplace operator,  $f, g, h$  are given functions, and  $u, v, w$  are unknown functions. The sixth part of the paper is devoted to the study of the properties of the solutions of the system (3).

4. In the seventh part of the paper, we consider the problem of the existence of solutions of the system of equations



# 1. Ambient Air Quality Monitoring Results (All values in $\mu\text{g}/\text{m}^3$ )

Year: 2020-21

Annex-1

S. No.	Month	Near Village-Khetakhara				Near Village-Shyamgarh				Near Village-Karwai				Near Village-Neemgarh			
		PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>x</sub>	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>x</sub>	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>x</sub>	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>x</sub>
1	Apr-20	Not done Due to Covid-19															
2	May-20	49	21	8	11	46	26	7	13	42	23	8	11	49	21	7	11
3	Jun-20	51	24	8	10	49	22	9	11	45	26	9	10	51	26	9	10
4	Jul-20	53	26	9	13	43	29	10	11	48	21	7	9	47	28	8	9
5	Aug-20	52	23	8	12.1	50	25	12.2	11.2	42	19.2	6	8	43	21	7	6
6	Sep-20	55	24	7	6	48	26	11.1	10.8	48.1	24.6	12	9	45	27	5.6	5.2
7	Oct-20	53	22	6	11	46	24	12	10	45	23	10	12	42	25	6	9
8	Nov-20	50	22	7	11	48	23	10.2	12	46	20	7	6	42	20	8	9
9	Dec-20	51	22	7	8	42	25	10	8	42	12	15	8	48	23	4.5	5.3
10	Jan-21	42	19	8	12	48	23	10	9	42	23	10	12	42	25	6	9
11	Feb-21	45	22	8	11.2	47	22	9	8	44	22	8	12	50	23	12	10
12	Mar-21	43	21	12	15	48	20	8	7	46	21	7	10.2	53	22	10	9
Average		49.5	22.4	8.0	10.9	46.8	24.1	9.9	10.1	44.6	21.3	9.0	9.7	46.5	23.7	7.6	8.4

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1	2	3	4	5	6	7	8	9	10
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51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



## Noise level (Leq dB(A)) for the period of April 20- March 21)

S. No.	Month	Khetakhara		Shyamgarh		Karwai		Neemgarh	
		Day	Night	Day	Night	Day	Night	Day	Night
1	Apr-20	Not Done due to covid-19							
2	May-20	55.3	48.6	51.3	46.7	53.6	48.2	52.6	46.1
3	Jun-20	51.2	46.9	52.9	48.3	55.4	49.7	55.4	47.7
4	Jul-20	57.6	51.4	49.9	43.7	51.7	43.2	51.7	43.9
5	Aug-20	61.2	52.5	52	43	62	52.3	65.3	48.3
6	Sep-20	60.5	53	55	48	64.3	58.3	67.6	49.2
7	Oct-20	58.2	53.4	51	47	61.3	57.9	66.8	51.2
8	Nov-20	62.5	53.3	55	48	63	55	65.3	48.3
9	Dec-20	60.5	53	52	43	64.3	58.3	68.6	55.3
10	Jan-21	58.2	53.4	51	47	61.3	57.9	66.8	51.2
11	Feb-21	60.2	55.4	61.2	48.1	59	45	66	55
12	Mar-21	65	55	62	47	61	42	58.9	48.3
Average		59.1	52.4	53.9	46.3	59.7	51.6	62.3	49.5

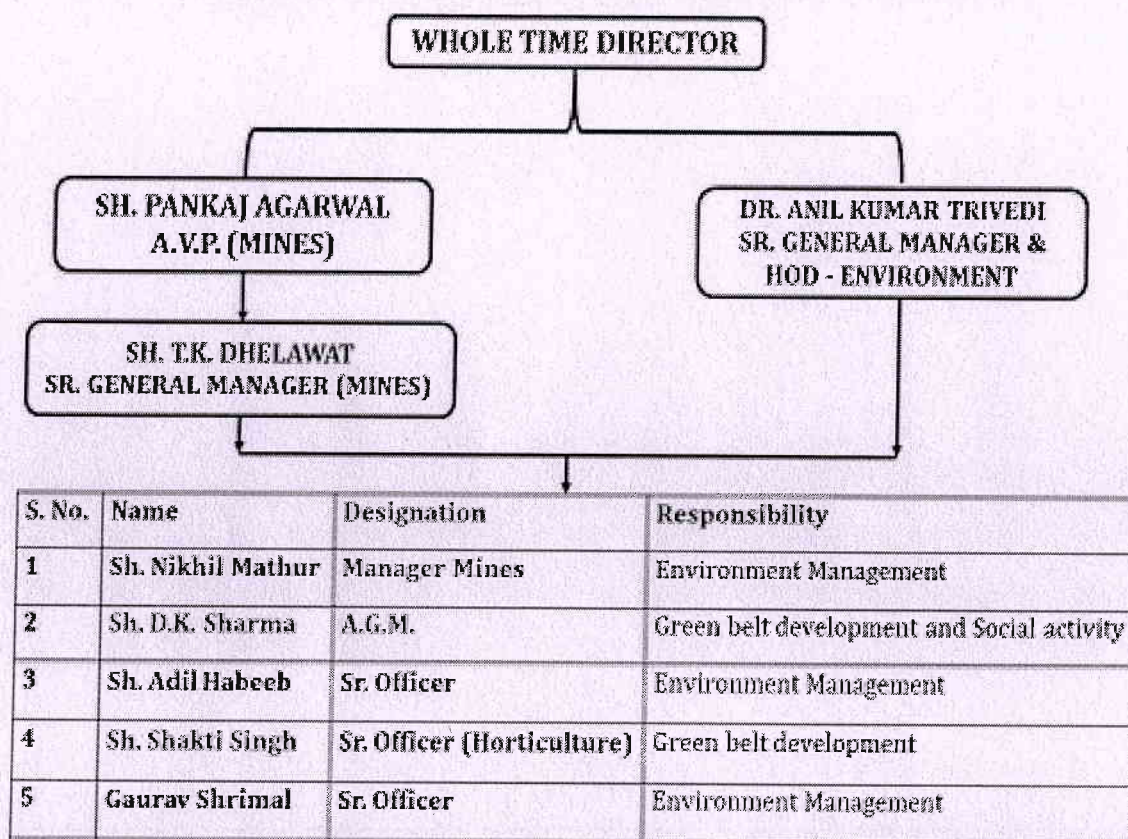
Project	Task	Start Date	End Date	Status	Assigned To	Comments
Project A	Task 1.1	1/1/2020	1/31/2020	Completed	John Doe	
Project A	Task 1.2	2/1/2020	2/28/2020	In Progress	Jane Smith	
Project A	Task 1.3	3/1/2020	3/31/2020	Not Started	John Doe	
Project B	Task 2.1	4/1/2020	4/30/2020	Completed	Jane Smith	
Project B	Task 2.2	5/1/2020	5/31/2020	In Progress	John Doe	
Project B	Task 2.3	6/1/2020	6/30/2020	Not Started	Jane Smith	
Project C	Task 3.1	7/1/2020	7/31/2020	Completed	John Doe	
Project C	Task 3.2	8/1/2020	8/31/2020	In Progress	Jane Smith	
Project C	Task 3.3	9/1/2020	9/30/2020	Not Started	John Doe	
Project D	Task 4.1	10/1/2020	10/31/2020	Completed	Jane Smith	
Project D	Task 4.2	11/1/2020	11/30/2020	In Progress	John Doe	
Project D	Task 4.3	12/1/2020	12/31/2020	Not Started	Jane Smith	



### Organizational structure for Environment Management

We have an Organization structure for Environment Management to carry out implementation of Environment measures envisaged in the EMP as follows:-

#### ORGANIZATIONAL STRUCTURE FOR ENVIRONMENT MANAGEMENT



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