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SCL/SG/ Env/2011-12/

5044-46

Date: 10/09/2011

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

Sub: - Environmental Statement for the period from April, 2010 to March, 2011.

Ref: - Consent to Operate Letter no:F (Tech) GANGANAGAR (SURATGARH)/1
(1)2008-2009/5375 Dated 10/02/2010.

Sir,

We are submitting herewith Environmental Statement Report for the period from April, 2010 to March, 2011 under Air & Water Acts of M/s Shree Cement Limited situated at village - Udepur, Tehsil- Suratgarh, District -Shri Ganganagar, Rajasthan

This is for your kind information.

Thanking you,

Yours faithfully,
For SHREE CEMENT LIMITED, SURATGARH

Ravi Mathur

(R.P.Mathur)
Sr. General Manager (Unit Head)

Encl: a/a

Copy to: 1) Regional Officer, Regional Office, Rajasthan State Pollution Control Board, 33, Phase-II, Bichwal Industrial Area, BIKANER.
2) The Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (Central Region), Kendriya Bhavan, 5th Floor, Sector 'H' Aliganj, Lucknow (U.P.),

%C Environment Dept, JLU.

Environmental Statement for Clinker Grinding Unit of M/s Shree Cement Limited, situated at village - Udepur, Tehsil- Suratgarh, District -Shri Ganganagar, Rajasthan for the Period from: April, 2010 to March, 2011

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	M/s Shree Cement Ltd, (Grinding Unit) village - Udepur, Tehsil- Suratgarh, District -Shri Ganganagar, Rajasthan
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	2 MTPA Cement
4.	Year of Establishment	Unit started on 10 th Feb,2010
5.	Date of the last Environmental Audit Report submitted	N.A.

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) **WATER CONSUMPTION:**

Process	:	N.A. (As plant is based on dry Process technology)
Cooling	:	11233 KL
Construction	:	Nil
Domestic	:	18343 KL

Name of Product	Process Water Consumption per Unit of Product Output(Cement)	
	During Previous Financial Year	During Current Financial Year
PPC Cement	0.031 KL/ MT of Cement	0.028 KL/ MT of Cement

(II) RAW MATERIAL CONSUMPTION: (CEMENT PLANT)

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Cement)	
		During Previous Financial Year	During Current Financial Year
1. Clinker	Cement	0.751	0.604
2. Gypsum		0.055	0.094
3. Fly Ash		0.193	0.332

RAW MATERIAL CONSUMPTION: (D.G. SET)

D.G.Set is not installed.

Name of Raw Material	Name of Product	Consumption of Raw Material per unit of Output (Ltrs / KWH	
		During Previous Financial year	During Current Financial year
NA	Power	N.A	N.A

(III) POWER CONSUMPTION (KWH/T OF CEMENT):

During Previous Financial Year	During Current Financial Year
Cement Mill	Cement Mill
49.41	32.22

(IV) TOTAL CEMENT PRODUCTION (MT):

During Previous Financial Year	During Current Financial Year
Cement Mill	Cement Mill
62231	1045233

(V) TOTAL D.G. POWER PRODUCTION (KWH):

During Previous Financial Year	During Current Financial Year
N.A	N.A

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	As the plant is being operated on dry process technology, no liquid effluent is generated from the Clinker Grinding Unit. The waste water generated from the office toilet and mess is disposed off in soak pit via septic tank.	
(b)	Air	Please refer Annexure – 1, 2 & 3	

PART – D

HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules amended up to 2011)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year	During Current Financial Year
a) From Process (Cement manufacturing (Grinding) is based on “Dry Process” No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments)	Total quantity of used oil generated from 10 th March-2010 To March-2010 = NIL	Total quantity of used oil generated from April 2010 To March-2011 = 7.0 KL
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E
SOLID WASTE

		Total Quantity	
		During Previous Financial Year	During Current Financial Year
(a)	From Process	N.A	Nil
(b)	From Pollution Control Facility	Dust collected in the Bag Houses and Bag Filters are recycled to the system.	
(c)	1) Quantity rejected or re-utilized within the unit	100%	100%
	2) Sold	Nil	Nil
	3) Disposed	Nil	Nil

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:

Hazardous Wastes

Cement manufacturing is based on “Dry Process”. No Hazardous waste is generated from the process except used oil which is drained from Machinerics / Equipments. Presently used oil is sold out to the authorized recycler.

Solid Wastes: - N.A.

PART – G

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

M/s Shree Cement Limited (Grinding Unit) is being operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy. The stack emissions from the plant are controlled by equipment like Bag Houses and Bag Filters installed at various material transfer points to clean the process and arrest the fugitive emissions. The particulate matter collected in the pollution control equipment is recycled in process and neutralizing the cost of operation of pollution control equipments and hence no cost impact on the production cost.

PART – H

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

Green belt development and tree plantation is our ongoing process. Every year we are doing new tree plantation to increase the bio-diversity of the area. Till date we have developed plantation in 49113 M². , with around 3971 trees & shrubs, this is around 33.8 % green area of the total plant area (14.5 Hect.).

PART – I

ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.

1. We have full-fledged Environment Department with three separate cells, one for monitoring, one for maintenance of pollution control equipment and one for Green Belt development.
2. Monitoring of stack emission and ambient air and water quality is being done regularly.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil and Personal & Administration departments taking care for of House keeping.
5. Horticulture Section is taking care of tree plantation and green belt development. Every year we are growing new tree plantation.

On support of above, we are enclosing herewith following:-

- Annexure-I : Ambient Air Quality Report (SPM, SO₂ and NO_x)
- Annexure-II : Stack Emission Report
- Annexure-III : Noise level monitoring data

ANNEXURE-I

AMBIENT AIR QUALITY ($\mu\text{g}/\text{m}^3$) FOR YEAR 2010-11

S.No	Location Month	Plant boundary toward truck parking area			Plant boundary behind CCR building			Plant boundary towards Udepur village.		
		SPM	SO ₂	NO _x	SPM	SO ₂	NO _x	SPM	SO ₂	NO _x
01.	Apr.-10	205	7	9	188	7	9	252	8	10
02.	May-10	208	8	10	192	8	10	263	9	11
03	Jun-10	215	7	11	196	8	10	266	8	12
04	Jul.-10	219	7	11	212	7	11	255	8	13
05	Aug.-10	218	7	12	214	6	11	224	7	11
06	Sep.-10	231	7	12	216	6	11	228	7	11
Average		216	7	11	203	7	10	248	8	11
		PM (2.5)	SO₂	NO_x	PM (2.5)	SO₂	NO_x	PM (2.5)	SO₂	NO_x
07	Oct.-10	36	7	12	28	7	11	32	7	12
08	Nov.-10	33	7	12	28	7	11	34	7	12
09	Dec.-10	35	7	13	32	7	12	37	7	13
10	Jun.-11	38	7	13	29	7	11	33	7	12
11	Feb.-11	38	8	13	29	7	11	34	7	12
12	Mar.-11	35	7	12	30	7	11	35	7	13
Average		36	7	13	29	7	11	34	7	12

ANNEXURE-II

NOISE LEVEL (Leq-dB(A) FOR YEAR 2010-11

S.No.	Monitoring Location Month	Plant boundary toward truck parking area		Plant boundary behind CCR building		Plant boundary towards Udepur village.	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
01.	Apr.-10	61.1	57.2	64.2	58.1	66.9	60.8
02.	May-10	61.5	56.9	63.8	55.9	65.7	61.2
03	Jun-10	65.7	60.2	61.5	56.4	68.7	63.1
04	Jul.-10	66.7	61.5	63.7	58.6	69.2	63.3
05	Aug.-10	66.2	60.8	63.4	58.1	67.4	61.8
06	Sep.-10	65.8	60.6	67.2	62.2	63.1	58.3
07	Oct.-10	68.4	62.1	66.5	61.7	65.8	60.2
08	Nov.-10	66.2	61.4	64.2	59.7	64.8	60.1
09	Dec.-10	67.6	61.8	65.4	60.2	65.0	60.4
10	Jun.-11	66.4	60.2	64.9	59.9	64.7	59.8
11	Feb.-11	66.5	61.2	63.1	59.4	64.2	58.8
12	Mar.-11	65.3	61.6	64.2	58.9	63.4	57.5
Average		65.6	60.5	64.3	59.1	65.7	60.4

ANNEXURE-III

STACK EMISSION LEVEL (mg/Nm³) FOR YEAR 2010-11

Sr. No.	Month	Pollution Control Measures	SPM (mg/Nm3)
01.	Apr.-10	Bag House	35
02.	May-10	Bag House	32
03	Jun-10	Bag House	38
04	Jul.-10	Bag House	34
05	Aug.-10	Bag House	35
06	Sep.-10	Bag House	42
07	Oct.-10	Bag House	45
08	Nov.-10	Bag House	32
09	Dec.-10	Bag House	34
10	Jun.-11	Bag House	42
11	Feb.-11	Bag House	44
12	Mar.-11	Bag House	35
Average		Bag House	37