

ENVIRONMENTAL STATEMENT
FORM-V
SHREE POWER
(A Unit of M/s Shree Cement Limited,)
BEAWAR (RAJASTHAN)
(APRIL, 2010 to MARCH, 2011)

PART – A

- | | | |
|----|---|--|
| 1. | Name and address of the Owner / Occupier of the Industry operation or process | Shree Power
(A Unit of M/s Shree Cement Limited)
Bangur Nagar
Post Box No. 33
BEAWAR – 305 901
Distt. Ajmer (Rajasthan) |
| 2. | Industry Category
Primary (S.T.C. Code)
Secondary (S.I.C. Code) | Red Category |
| 3. | Production Capacity | 62 MW |
| 4. | Year of Establishment | 2003 |
| 5. | Date of the last Environmental Audit Report submitted | 15/9/2010 |

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION :

Process & Cooling : 465645 KL

Domestic : Common colony for existing Cement Plant, Shree Power and Mines.

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year	During Current Financial Year
Power	0.00367 KL / Kwh	0.00118 KL / Kwh

(II) RAW MATERIAL CONSUMPTION:

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Power)	
		During Previous Financial Year	During Current Financial Year
1. Water	Power	0.00367 KL / Kwh	0.00118 KL / Kwh
2. Coal / Fuel (Indian & Imported)		0.000386	0.000377

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

During Previous Financial Year	During Current Financial Year
0.0665	0.0594

(IV) **TOTAL POWER PRODUCTION (KWH):**

During Previous Financial Year	During Current Financial Year
374639181	393652447

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	Domestic waste water generated from residential colony and office toilets is treated in STP and treated water is used in existing cement plant process. Total quantity of treated domestic wastewater during the year 2010-2011 was 42237 KL. Residential colony is common for Shree Cement Limited Unit I & II, Mines, Power plants. During the year 2010-2011, 8764 KL waste water was generated from the Shree Power plant which was after neutralization used for Crusher spray, ash quenching & cement plant process.	
(b)	Air	Please refer Annexure –I & II	

PART – D

HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules amended up to 2010)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year April, 2009 to March,2010	During Current Financial Year April,2010 to March,2011
From Process	We are having a common Authorization for Hazardous waste management and handling for both SCL Unit-I & II, D.G. Sets, Power plants and Mines.	
	Total quantity generated from April-2009 to March-2010 = 41920 Ltrs. Old stock = 3050 Ltrs. Total used oil received =44970 ltrs Self used=27035 Ltrs. Sell to recyclers=9240 Ltrs. Balance quantity=8695 ltrs	Total quantity generated from April-2010 to March-2011 = 19138 Ltrs. Old stock = 8695 Ltrs. Total used oil received =27833 ltrs Sell to recyclers=19950 Ltrs. Balance quantity=7883 ltrs
(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	5406 Tonnes (Boiler Bed Ash)	4637 Tonnes (Boiler Bed Ash)
(b)	From Pollution Control Facility	48222 Tonnes (Fly Ash)	34913 Tonnes (Fly Ash)
(c)	1) Quantity rejected for re-utilized within the unit	100% Recycled in existing Cement plant process	100% Recycled in existing Cement plant process
	2) Solid		
	3) Disposed		

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

No Hazardous waste is generated from the process except used oil which is drained from Machineries / Equipments. It is used for lubrication in chains, Stacker and Reclaimer etc and partly sold to the registered recycler.

Solid Wastes:

Only Fly ash and Bed ash is generated from the power plant as a solid waste which is used in the process of existing cement plants. Quantity of generation of both solid wastes is mentioned in part-E.

PART – G

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

Shree power is being operated on environmentally clean technology. The stack emissions from the plant are controlled by ESP's & Bag Houses. Bag filters have been installed at various material transfer points to clean the process and arrest the fugitive emissions. The boiler ash collected in the pollution control equipments is used in the process of existing cement plants, thus it can be said that the utilization of raw material is being done at their cost. Since the system is operated on total recycle, there is no effect on the cost of production.

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 growing new tree plantation. In the year 2010-11, 4725 new trees have been planted. Up to March 2011 total green area is 82.83 hectare with around 180534 trees which is around 35 % green area of total plant and colony area (231.94 hectare).

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 and one for maintenance of pollution control equipment and one for Green Belt development.
2. Monitoring of stack emission, ambient air, noise 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 dept is taking care of House keeping.
5. Horticulture Department is taking care of tree plantation and green belt development.

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

Annexure – I	:	Ambient Air Quality Report
Annexure – II	:	Stack Emission Level Report
Annexure – III	:	Noise Level Report

Annexure-I

AMBIENT AIR QUALITY ($\mu\text{g}/\text{M}^3$) FOR PERIOD FROM APRIL 2010 TO SEP 2010

Location Month	Plant boundary near village sarakana			Plant boundary near Coal yard			Railway siding			Satkar guest house				Main gate		
	SPM	SO ₂	NO _x	SPM	SO ₂	NO _x	SPM	SO ₂	NO _x	RSPM	SPM	SO ₂	NO _x	SPM	SO ₂	NO _x
Apr-10	178	9	10	367	9	11	163	9	12	53	144	8	11	313	10	12
May-10	188	9	11	383	10	11	175	9	11	58	151	9	10	319	10	11
Jun-10	168	8	10	366	10	11	166	8	11	55	153	8	10	328	9	11
Jul-10	166	8	11	368	10	11	168	8	11	54	151	9	11	330	9	11
Aug-10	162	8	11	361	9	10	160	8	10	51	150	8	10	315	9	10
Sep-10	171	8	11	365	9	11	165	9	11	54	152	8	10	322	10	11
Average	172	8	11	368	10	11	166	9	11	54	150	8	10	321	10	11

AMBIENT AIR QUALITY ($\mu\text{g}/\text{M}^3$) FOR PERIOD FROM OCT 2010 TO MARCH 2011

Location Month	Plant boundary near village sarakana				Plant boundary near Coal yard				Railway siding				Satkar guest house				Main gate			
	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x
Oct-10	-	39	8	11	-	43	9	11	-	36	8	11	-	31	7	10	-	33	9	12
Nov-10	-	36	9	12	-	39	9	12	-	33	7	10	-	32	8	11	-	36	8	11
Dec-10	64	37	9	12	74	40	8	12	68	34	7	11	62	30	8	11	71	34	8	12
Jan-11	78	40	8	11	76	36	8	13	72	31	6	11	60	28	7	12	68	35	9	12
Feb-11	76	39	9	12	75	35	8	13	73	31	8	11	61	29	8	12	70	33	8	12
Mar-11	60	35	8	12	65	36	8	12	64	30	8	12	57	29	8	11	63	31	8	12
Average	70	38	8	12	73	38	8	12	69	33	7	11	60	30	8	11	68	34	8	12

Annexure-II

Stack Emission Level PM (Mg/Nm³) For Year, 2010-2011

MONTH	Boiler-I	Boiler-II
Apr-10	43	38
Jul-10	45	39
Oct-10	29	27
Jan-11	33	36
AVG.	38	35

Annexure-III

Noise Level (Leq-dB(A) For year 2010-2011

Monitoring Location Month	Plant boundary near village Sarkana		Plant boundary near Coal yard		Railway Siding near Shree Power		Satkar guest house		Main Gate	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Apr-10	59.2	54.1	60.3	52.7	61.3	54.3	53.2	43.7	68.9	62.5
May-10	59.7	54.4	60.5	52.5	61.8	54.8	53.6	43.5	68.9	62.3
Jun-10	58.9	54.6	60.1	52.6	61.6	54.7	53.4	43.6	68.7	62.4
Jul-10	58.8	54.5	60.3	51.8	61.1	54.5	53.2	43.3	64.1	62.1
Aug-10	58.6	54.4	60.4	52.5	61.5	54.3	53.3	43.4	66.8	62.5
Sep-10	58.7	54.5	60.3	52.6	61.3	54.5	53.3	43.6	66.7	62.3
Oct-10	57.6	53.6	61.2	53.2	60.5	54.9	53.4	43.7	67.2	62.6
Nov-10	61.5	55.6	64.2	58.2	63.5	57.1	53.2	43.5	68.9	63.1
Dec-10	67.8	56.8	68.5	59.2	61.8	56.8	53.0	43.2	69.2	63.4
Jan-11	68.9	55.9	70.6	58.9	62.5	57.3	54.1	43.2	70.2	63.2
Feb-11	67.8	54.6	70.2	58.9	63.2	58.1	53.8	43.4	68.9	63.5
Mar-11	68.5	56.8	69.8	57.6	62.9	56.1	53.4	43.7	67.8	62.8
Average	62.2	55.0	63.9	55.1	61.9	55.6	53.4	43.5	68.0	62.7