

**BHILAI JAYPEE
CEMENT LIMITED**

Dated 23rd April, 2015

BJCL / BHILAI / ENV / 270

To

The Regional Director
Ministry of Environment & Forests
Regional Office, (WZ),
E-5, Kendriya Paryavaran Bhawan
E-5, Arera Colony, Link Road -3, Ravishankar Nagar,
Bhopal (M.P.)-462016

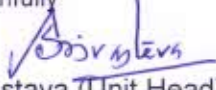
**Sub:- Compliance Status Report of E.C. for the period of October, 2014 to March, 2015
Granted by MoEF.**

Ref:- i) Letter No.J-11011/1001/2007- I A II (I) Dated 01-05-2008.
ii) Letter No.J-11011/1001/2007- I A II (I) Dated 19-04-2012.

Dear Sir,

Please find enclosed herewith the compliance Status to the condition laid down in the Environmental Clearance granted by MoEF, New Delhi.

Thanking You
Yours Faithfully


A C Srivastava (Unit Head)
Authorized Signatory
For **Bhilai Jaypee Grinding Plant, Bhilai**
(A Unit of Bhilai Jaypee Cement Limited)

- | | |
|--|--------------------------|
| CC. The Chairman
Central Pollution Control Board,
CBD-Cum-Office Complex,
East Arjun Nagar
New Delhi - 110032 | For kind information pl. |
| CC The Member Secretary
Chhattisgarh Environment Conservation Board
Kabir Nagar, Commercial Complex
Chhattisgarh Housing Board Colony
Kabir Nagar
RAIPUR (CG) - 492099 | For kind information pl. |
| CC The Chief Conservator of Forest (Eastern)
Regional Office,
E-3 / 240, Arera Colony,
Bhopal (MP) 462016 | For kind information pl. |
| CC The Zonal Officer
Central Pollution Control Board,
Sahakar Bhawan, III Floor,
North TT Nagar, BHOPAL- 462003 | For kind information pl. |
| CC Regional Officer
Regional Office,
C.E. Conservation Board, Bhilai, Durg (CG) | For kind information pl. |

Plant : BSP Premises, Slag Yard Road (Opp. Sector-4, NMOH) Bhilai - 490 001,
Distt.-Durg(Chhattisgarh) Exchange-0788-4022255/56, Fax:0788-4022216
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A JV of SAIL & JAIPRAKASH ASSOCIATES LIMITED


BHILAI JAYPEE
GROUP



23/4/15
क्षेत्रीय कार्यालय
उत्तीसगढ़ पर्यावरण संरक्षण मण्डल
5/32 बंगला बिलाई, जि. दूग (छ.ग.)

BHILAI JAYPEE GRINDING PLANT (A UNIT OF BHILAI JAYPEE CEMENT LIMITED)

BHILAI STEEL PLANT PREMISES, BHILAI, DURG, (CHHATTISGARH)

****A****

Environmental Compliance Report for the period : October-2014 to March-2015

Compliance report for the Period October-2014 to March-2015 of the conditions stipulated in the Environmental Clearance granted by MoEF, Vide letter NO. F. NO. J-11011/1001/2007-IA II (I) DATED 01-05-2008 for setting up a Cement Grinding Unit (Portland Slag Cement 2.2 MTPA) at Bhilai Steel Plant Complex, Bhilai.

I. Specific Conditions

Sl. No.	Details of Conditions	Status
i	On-line continuous stack monitoring facilities for all the stacks and adequate air pollution control systems shall be provided. Cement grinding shall be carried out in closed cement mill and shall have highly efficient bag filters. The stack emissions from various sources shall not exceed 50 mg/Nm ³ . Data to be submitted to the Ministry's Regional Office half yearly, CPCB and CECB quarterly	Continuous On –line Stack Monitoring system has been installed in all major stacks. Adequate Bag House/ Bag filters have been installed as air pollution control system in closed cement mill grinding operations. List of Pollution Control system enclosed as Annexure-I Stack emission monitoring is periodically carried out, and the results are within prescribed norms of 50 mg/Nm ³ (Max). Monitoring results are enclosed at Annexure-II Monitoring data of Stack and Ambient Air quality for the period October-2014 to March, 2015 is enclosed as Annexure-II and Annexure-III respectively. Data are periodically submitted to RO-MoEF, CPCB and SPCB.
ii	The gaseous emissions (SPM, SO ₂ , NO _x , CO) and particulate matter from various units shall conform to the standards prescribed by the Chhattisgarh Environment Conservation Board (CECB). Bag House to collect fine dust from cyclones, jet pulse filters shall be provided at the transfer points. At no time, particulate emissions from the grinding unit	This is only a cement grinding unit. The gaseous and particulate matter emission from various units is being monitored regularly and the monitoring results conform to the standards prescribed. Monthly report is submitted to the Chhattisgarh Environment Conservation Board (CECB) regularly. Bag House/ Bag filters to collect fine dust at all transfer points, etc. is installed to control fugitive emissions. The stack emissions data is within

	shall exceed 50 mg/Nm ³ . Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically	prescribed norms of 50 mg/Nm ³ . All major pollution control equipments are interlocked with main process equipments.
iii	Ambient air quality monitoring stations (AAQMS) shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated as per statutory requirement in consultation with the Chhattisgarh Environment Conservation Board (CECB). Ambient air emissions shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality shall be carried out regularly in consultation with CECB and Data submitted to the Ministry's Regional Office half-yearly, CPCB and CECB quarterly.	Complied with. AAQMS have been installed as advised in four directions at four locations as per statutory requirement in consultation with CECB. The AAQ results are found within the prescribed norms. Air quality monitoring data is being submitted regularly to RO, MoEF,CECB and SPCB as per the schedule specified and the same is enclosed as Annexure-III .
iv	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed. The fugitive emissions shall be suitably controlled by installing adequate dust collection and extraction system during loading and unloading points and at all the transfer points. Fugitive emissions shall also be controlled by providing silos and closed roof sheds for raw materials and product. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	Complied with. Secondary fugitive emissions are controlled as per CPCB guidelines/code of practice. For controlling secondary fugitive emissions: • 34 nos. of Bag House / Bag Filters have been installed at loading/unloading points and at all the material transfer points (list enclosed at Annexure-I). • Water sprinkling arrangement has been provided at strategic points. • Covered conveyor belts are used for transportation of raw materials, etc. • All internal roads within the plant premises have been concreted. • Good housekeeping practices are being followed for controlling the dust emissions.
v	Total water requirement from SAIL shall not exceed 150 m ³ /hr. Treated waste water shall be recycled and reused in	Complied with. The details of water consumption are provided at Annexure-IV . The quantity of domestic waste water generated from the Plant is very

	the process, dust suppression and Green Belt Development. Domestic wastewater shall be treated in Sewage Treatment Plant (STP) and used for Green Belt Development. No Effluent shall be discharged outside the factory premises and 'Zero discharge' shall be strictly followed.	negligible and the common facility of Bhilai Steel Plant Sewage Treatment Plant (STP) is used. In operational phase, entire waste water is being re-used and recycled from cooling tower. The plant is thus operating on "Zero effluent discharge" philosophy.
vi	No surface or ground water shall be used. In case of any change in source of water necessary Permission from the concerned department shall be obtained and submitted to the Ministry's Regional Office in Bhopal.	No ground water / surface water is used. Our water requirement is met from SAIL Supply only.
vii	All the cement dust collected from pollution control devices like bag house, bag filters etc. shall be recycled and reused in the process and used for cement manufacturing. STP sludge shall be used as manure. Waste oil shall be sold to the authorized recyclers/ re-processors only.	Being Complied with. The unit is designed for close circuit cement mill grinding operations and all the cement dust collected from pollution control devices like bag house, bag filters etc. is being recycled and reused in the process and used for cement manufacturing. Not applicable, as we do not have any STP Hazardous Waste Authorization obtained from CECB vide letter No.4171 / H.O./ HSMD / CECB / Raipur dated 06-11-2012, valid till November, 2017 for sale of used oil to the authorized recyclers/ re-processors only.
viii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly.	Not applicable, as this is only a stand-alone cement grinding unit and no cement Kiln has been installed for pyro-processing.
ix	As proposed, green belt shall be developed in 4.62 ha. (33 %) out of total 14 ha. area to reduce impacts of fugitive emissions. Central Pollution Control Board (CPCB) guidelines shall be followed in planning and developing green belt and selection of species etc.	Green belt has been planned to be developed in 33% area as per the CPCB guidelines. Further development plan has been taken up during this monsoon season and works is going on in the site for plantation of various local species. Details of the plantation carried out so far, area covered and the action plan for the next years is enclosed as Annexure-V
x	Other necessary statutory clearances from other	No Objection Certificate' (NOC) for construction was obtained from the

	concerned Departments including 'No Objection Certificate' from the Chhattisgarh Environment Conservation Board (CECB) shall be obtained prior to commencement of construction and/or operation.	Chhattisgarh Environment Conservation Board (CECB) vide ref. No. 5788/TS/CECB/2008 dated 08.10.2008. Consent to Operate from the Chhattisgarh Environment Conservation Board (CECB) was obtained before start of operation. Subsequently consent renewals are regularly being obtained from CECB after due compliance of consent conditions.
xi	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines shall be strictly followed and complied.	All relevant CREP guidelines are being followed. Status of compliance to the CREP action points is provided at Annexure-VI

2. General Conditions

Sl. No.	Details of Conditions	Status
i	The Project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	Being Complied with. Consent to Operate from the Chhattisgarh Environment Conservation Board (CECB) was obtained before start of operation. Subsequently consent renewals are regularly being obtained from CECB after due compliance of consent conditions.
ii	No further expansion or modifications in the Plant should be carried out without prior approval of the Ministry of Environment & Forests.	Noted and Agreed
iii	At least four Ambient air quality monitoring stations (AAQMS) should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the Chhattisgarh Environment Conservation Board (CECB). Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB / CPCB once in six months.	Ambient Air quality monitoring Station has been established in four directions in consultation with CECB considering wind rose pattern and other consideration of the location as per CPCB guidelines. Periodic monitoring is being carried out and the data are regularly submitted to all the concerned authorities. Analysis report enclosed as Annexure – II & III
iv	Industrial Wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st	No industrial wastewater is generated, as this is a standalone cement grinding unit, hence not applicable.

	December, 1993 or as amended from time to time.	Being Complied with. Noise level in and around plant is maintained within the prescribed norms under EPA rules. Noise control measures including silencers, enclosures etc. have been provided on all sources of noise generation. Moreover adequate green belt is being developed to mitigate the noise levels in surrounding areas. Monitoring of noise levels is carried out periodically as per guidelines and reports are being submitted to CECB regularly. Data of Noise level monitoring is enclosed at Annexure-VII .
v	The overall noise levels in and around the Plant areas shall be kept well within the standards (85 dbA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Being complied with. A number of Socio economic development activities are presently carried out by the company in various fields. (Providing FOC Cement for construction / Repairing and maintenance of schools/public buildings/religious places, etc. Medical Health checkup camps organized in various places. Leveling and dressing of play grounds in the nearby community areas. Wooden Bench provided to Vigyaan Vikas Kendra, Durg. Support provided for up-liftment of sports like volley ball and motor sports in the state. Flag day contribution to district Solders. Welfare contribution to leading Eye hospital, Raipur and also provided Semi Auto Analyzer to Distt hospital Durg. Distribution of Sewing machine & Diaries to local SHG's. Participation in various religious and Cultural activities etc.) The Group is committed towards health and safety of employees and the community around. Our motto is "Work for Safe, Healthy, Clean and Green Environment. The details are provided at Annexure-VIII .
vi	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	A separate fund has been created exclusively earmarked towards capital cost and recurring cost of Environmental pollution control equipments which have been installed at site and other environmental protection and improvement activities. The funds so provided are strictly not diverted for any other purpose. Details of the Capital expenditure incurred on pollution control and environmental management is enclosed as Annexure-IX .
vii	The project Authorities shall provide Rs. 1,515 Lakhs and Rs. 70 Lakhs towards total capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bhopal. The funds	

	so provided shall not be diverted for any other purpose.	
viii	The Regional Office of this Ministry at Bhopal / CPCB / CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Being Complied with. Six Monthly compliance reports are being submitted regularly.
ix	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CECB and may also seen at website of the Ministry of Environment and forest at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter ,at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same be forwarded to the Regional Office at Bhopal.	Complied with, The advertisement for clearance granted by MoEF New Delhi has already been published in two local News papers on Date 08-05-2008. Copy already submitted in the previous compliance report.
x	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Financial closures date is 8th May, 2008 and land development work was commenced on 16th May, 2009. The plant has commenced trial operations on 21st June 2010. Information in this regard has already been submitted to R.O. and Member Secretary, Chhattisgarh Board vide our letter No.BJC / Bhilai / 03 dated 13th July 2010.

Encl : as above

BHILAI JAYPEE GRINDING PLANT (A UNIT OF BHILAI JAYPEE CEMENT LIMITED)

BHILAI STEEL PLANT PREMISES, BHILAI, DURG, (CHHATTISGARH)

****B****

Environmental Compliance Report for the period : October-2014 to March-2015

Compliance report for the Period October-2014 to March-2015 of the conditions stipulated in the Amendment of Environmental Clearance granted by MoEF vide letter F. NO. J-11011/1001/2007-IA II (I) DATED 19-04-2012.

1. Specific Conditions

Sl. No.	Details of Conditions	Status
4 i	The National Ambient Air Quality Standards issued by the Ministry shall be followed	Regular monitoring of the Ambient Air Quality (AAQ) is carried out at four locations defined and the National Ambient Air Quality Standards are strictly being followed.
ii	The project proponent shall submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitoring data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	Six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitoring data are regularly being submitted. The conditions specified in the amendment in the EC issued by the MoEF on 19/04/2012, for PPC production is also incorporated herewith.
iii	The Environmental Statement for each financial year ending 31st March in Form - V as is mandated to be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986 shall also be put on the website of the company along with the status of compliance of the environmental conditions and shall also be sent to the respective Regional Office to the MOEF by e-mail.	Agreed and being complied with. Presently, since only Portland Slag Cement (PSC) is being manufactured, Environmental Statement based on PSC product only is being submitted to the State Pollution Control Board. Any production of PPC shall be taken up on need basis after due compliances of the conditions specified in the amendment in the EC issued by the MoEF on 19/04/2012.

iv	The Company shall submit within three months their policy towards Corporate Environmental Responsibility which should inter-alia address (i) Standard Operating Process / procedure to being into focus any infringement / deviation / violation of environmental or forest norms/conditions.	The process selected for the grinding is the state of the art Vertical Roller Mill technology. The basic raw materials for production of Portland slag cement are Clinker, Gypsum & Slag. All these raw materials are stored separately in the designated storage space/area. Clinker is received through Railway Wagon from the clinkerization unit of BJCL at Satna, MP and unloaded at site through wagon tippler transported to clinker storage silo through closed conveyor belt. Slag is sourced from Bhilai Steel Plant(BSP) adjacent to the grinding unit (This is the solid waste material of BSP). Gypsum is procured & stored in separate designated area. For manufacturing of PPC (Portland Pozzolana Cement) on need basis the plant will utilize fly ash, a waste material from the NTPC-SAIL (NSPCL) power plant. Dry fly ash will be handled pneumatically and wet fly ash will be handled in existing covered belt conveyor. The fly ash will be sourced from NSPCL, Bhilai through closed tankers. All raw materials will be ground in closed vertical mill and ground materials will be collected in high efficiency bag filters (Bag house high efficient pollution control equipment installed in the system) & transported through air slides and bucket elevator to cement storage silo. The cement is being packed in the 50 Kg bags (P.P/LPP) through rotary electronic packers The plant is fully computerized and operated through centralized Control Room which is equipped with latest and most modern Automation Equipment. The plant is equipped with state-of-the-art Air pollution control devices so that emission level is always maintained less than 50 mg / Nm³ as per prescribed norms. For continuous stack Monitoring Opacity meter has been installed. Total 34 Nos. of Bag filters including Bag House have been installed in process to control the Stack emission and various material transfers points to control the fugitive dust emissions as per CPCB guidelines (list enclosed at Annexure-I). The company is not violating any forest norms/ conditions.
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	(ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and	To deal with the environmental issues, continual improvement and ensuring compliance to the environmental clearance and consent conditions, Hierarchical system of the company is enclosed as Annexure-X . A separate environment management cell has been set up with full fledged laboratory facilities to carry out various Environment and monitoring activities.
	(iii) System of reporting of non compliance / violation environmental norms to the Board of Directors of the company and / stakeholders or shareholders.	The system of ensuring compliances and reporting of non-compliance/violation of Environmental Norms is attached as Annexure-XI .
5	The company shall comply with all the conditions stipulated vide letter of even no. dated 1-5-2008.	Being Complied with and the compliance reports are regularly being submitted.

NOTE:- Still we are Manufacturing only Portland Slag Cement (PSC). Manufacturing of PPC (Portland Pozzolana Cement) is on need basis. Due to less market demand the manufacturing of the same (PPC) is not required presently.

Encl: as above

BHILAI JAYPEE GRINDING PLANT

List of pollution Control Systems at Bhilai Jaypee Grinding Plant

S. No	Equip No	Description of Bagfilter	Size of bags (mm)	No of Bags
1	491 BF A	New Bag filter at W/T hopper	150 D x 3020 L	64
2	491 BF B	New Bag filter at W/T hopper	150 D x 3020 L	60
3	491BF 0	Wagon Tippler bag filter	150 D x 3020 L	72
4	491 BF1	491 BC1 discharge point at transfer tower	150 D x 3020 L	72
5	491 BF2	Clinker Silo top dedusting bagfilter	150 D x 3020 L	72
6	511 BF1	Clinker silo extraction extraction dedusting bag	150 D x 3020 L	72
7	511 BF2	511 BC1 & BC 2 discharge point bagfilter	150 D x 3020 L	72
8	511 BF3	Feed hopper top dedusting bagfilter	150 D x 3020 L	72
9	521 BF1	At feed hopper bottom for mill-1 feed circuit	152 D X 3664 L	100
10	521 BF2	At feed hopper bottom for mill-1 feed circuit	152 D X 3664 L	100
11	521 BF3	Mill 1 feed belt discharge Point dedusting	152 D X 3664 L	36
12	521 BF4	Recirculation belt (561 BC1) discharge point	152 D X 3664 L	100
13	521 BF5	Reject elevator discharge point dedusting	152 D X 3664 L	36
14	522 BF1	At feed hopper bottom for mill-2 feed circuit	152 D X 3664 L	100
15	522 BF2	At feed hopper bottom for mill-2 feed circuit	152 D X 3664 L	100
16	522 BF3	Mill 2 feed belt discharge Point dedusting	152 D X 3664 L	36
17	522 BF4	Recirculation belt (562 BC1)discharge point	152 D X 3664 L	100
18	522 BF5	Reject elevator discharge point dedusting	152 D X 3664 L	36
19	522 BF7	Bag house 2 discharge A/S venting bagfilter	152 D X 3664 L	25
20	591 BF1	Cement silo top bagfilter for compartment 1	150 D x 3020 L	72
21	591 BF2	Cement silo top bagfilter for compartment 2	150 D x 3020 L	72
22	591 BF3	Cement silo top bagfilter for compartment 3	150 D x 3020 L	72
23	611 BF4	Cement Silo extraction bagfilter for Bin 1	150 D x 3020 L	48
24	611 BF5	Cement Silo extraction bagfilter for Bin 2	150 D x 3020 L	48
25	611 BF6	Cement Silo extraction bagfilter for Bin 3	150 D x 3020 L	48
26	611 BF7	Venting bagfilter for P/P airslides	150 D x 3020 L	48
27	L31 BF1	B/F for coal crusher and feed transfer point	150 D x 3020 L	108
28	521 BF6	Mill-1 Product baghouse	127 D x 6000 L	5632
29	522 BF6	Mill-2 Product bag house	127 D x 6000 L	5632
30	641 BF1	P/P-1 feed circuit dedusting bag filter	150 D x 3020 L	390
31	642 BF1	P/P-2 feed circuit dedusting bag filter	150 D x 3020 L	390
32	641 BF2	P/P-1 reject circuit dedusting bag filter	150 D x 3020 L	150
33	642 BF2	P/P-2 reject circuit dedusting bag filter	150 D x 3020 L	150
34	521 BF7	Product (Silo)elevator dedusting Bag Filter	152 D X 3664 L	121

Bhilai Jaypee Grinding Plant, Bhilai
(A Unit of Bhilai Jaypee Cement Limited)

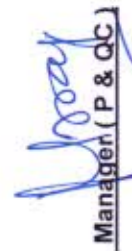
Annexure-II

STACK MONITORING RESULTS FOR THE PERIOD FROM (OCTOBER, 2014 to MARCH, 2015).

Month	Characteristics	Unit	Limit	Packer No.1		Packer No.2	
				Stack of packing plant bag filter No-1	Stack of packing plant bag filter No-2	Stack of packing plant bag filter No-3	Stack of packing plant bag filter No-4
Oct. 14	Particulate Matter	Mg/Nm ³	50	12.5	13.7	16.5	21.9
Nov. 14	-	-	-	13.3	17.2	12.1	18.6
Dec. 14	-	-	-	17.2	20.6	19.1	16.6
Jan. 15	-	-	-	17.4	18.9	18.1	20.9
Feb. 15	-	-	-	17.8	17.5	18.5	21.0
Mar. 15	-	-	-	18.4	17.6	18.6	18.9
	MINIMUM			12.5	13.7	12.1	16.6
	MAXIMUM			18.4	20.6	19.1	21.9
	AVERAGE			16.1	17.6	17.2	19.7



Sr. Officer (Environment)


Manager (P & QC)

BHILAI JAYPEE GRINDING PLANT								Annexure-III
BHILAI, DURG. (C.G.)								
AMBIENT AIR QUALITY MONITORING RESULTS FOR THE PERIOD FROM OCTOBER 2014, to MARCH 2015								
Month	Particulars	SO ₂ ($\mu\text{g}/\text{M}^3$)	NOX ($\mu\text{g}/\text{M}^3$)	PM 2.5 ($\mu\text{g}/\text{M}^3$)	PM- 10 ($\mu\text{g}/\text{M}^3$)	SPM ($\mu\text{g}/\text{M}^3$)	Remarks	
Oct. 2014	Switch Yard	8.3	21.5	22.1	77.1	214		
	Coal Yard	7.5	20.6	24.9	69.9	206		
	Wagon Tippler	8.4	20.5	30.5	76.9	270		
	Auto Work Shop	8.0	19.9	31.7	79.8	207		
Nov. 2014	Switch Yard	8.7	24.1	27.5	68.9	219		
	Coal Yard	7.3	21.5	29.5	69.8	214		
	Wagon Tippler	7.7	23.0	36.0	76.4	309		
	Auto Work Shop	7.9	23.1	31.5	82.7	268		
Dec. 2014	Switch Yard	9.3	23.6	28.1	74.0	261		
	Coal Yard	7.3	20.8	29.8	69.8	245		
	Wagon Tippler	8.5	23.6	31.3	80.8	361		
	Auto Work Shop	8.3	23.4	33.2	81.4	299		
Jan. 2015	Switch Yard	7.2	22.3	24.6	69.9	242		
	Coal Yard	8.4	21.6	26.9	64.4	230		
	Wagon Tippler	7.5	23.5	29.5	80.8	321		
	Auto Work Shop	7.8	24.0	29.7	80.6	326		
Feb. 2015	Switch Yard	7.1	23.1	27.1	69.9	251		
	Coal Yard	7.1	22.2	27.6	71.4	315		
	Wagon Tippler	7.3	24.6	34.0	82.6	357		
	Auto Work Shop	7.2	23.3	36.7	82.0	319		
March. 15	Switch Yard	7.2	23.5	27.8	64.7	220		
	Coal Yard	7.3	24.1	27.7	68.5	239		
	Wagon Tippler	7.8	27.5	31.3	78.7	339		
	Auto Work Shop	8.3	25.9	35.0	77.4	343		

Note: All values are Average value of the month

Sr. Officer (Environment)

Manager (P & QC)

Bhilai Jaypee Grinding Plant, Bhilai
(A Unit of Bhilai Jaypee Cement Limited)

DETAILS OF WATER CONSUMPTION FROM THE MONTH OF
OCTOBER, 2014 TO MARCH, 2015.

Sl.No.	Month	Quantity in m3	Quantity in m ³ /day	Quantity in m ³ /h
1	October-14	5200	167.7	6.98
2	November-14	5920	197.3	8.22
3	December-14	5830	188.1	7.83
4	January-15	5700	184.0	7.66
5	February-15	6310	225.0	9.37
6	March-15	6950	224.2	9.34

GREENBELT/GREEN COVER DEVELOPMENT PLAN- BHILAI JAYPEE GRINDING PLANT

Development of greenbelt in an area of 4.62 ha to improve the aesthetic value of the area as also to arrest dust and mitigate noise Pollution.

DETAILS OF GREENBELT PLAN & DEVELOPMENT

SL. No	Year	Number of plants		Area (in Ha)		Cost (Rs.)	
		Planned	Actual done during the year	Planned	Actual done during the year	Planned	Actual expenditure during the year
1	2010-2011 & 2011-2012	5000	3155	2	2	7,50,000	10,00,000/-
						7,50,000	4,50,000/-
2	2012-2013	2500	2000	1	1 (approx)	7,50,000	5,51,000/-
3	2013-2014	3,000	1200	1.2	0.4 (Approx)	9,00,000	6,73,920/-
4	2014-2015	1,000	691	0.42	0.25 (Approx)	6,00,000	718594/-
	Total	11,500	7046	4.62		37,50,000	3393514/-

Bhilai Jaypee Grinding Plant, Bhilai
(A Unit of Bhilai Jaypee Cement Limited)

COMPLIANCE STATUS OF C.R.E.P. ACTION POINTS.

Dated. 31-03-2015

SL.NO.	CREP CONDITION	STATUS
1	Cement plant, which are not complying with notified standards shall do the following to meet the standards. 1- Augmentation of existing Air pollution Control Devices by July 2003 2- Replacement of existing Air Pollution Control Devices by July 2004	Not applicable. <i>The Industry commissioned in the month of June 2010. Its complying with notified standards of 50 mg/Nm³ (Max)(particulate emission) Stack emission.</i>
2	Cement Plant located in critically polluted or urban areas (including 5km distance outside urban boundary) will meet 100-mg/Nm ³ limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter emissions.	As stated above , we would like to inform that our APCD are designed to maintain the emission of particulate matter from stack less than 50 mg / Nm ³
3	The New cement Kilns to be accorded by NOC / Environmental Clearance w.e.f.01-04-2003 will meet the limit of 50 mg / Nm ³ for particulate matter emission.	Not Applicable, as no cement Kiln at site. <i>However, the emission of particulate matter is well within the limit of 50 mg / Nm³</i>
4	CPCB will evolved load based standards by December 2003.	N/A
5	CPCB and NCCBM will evolved SO ₂ and NOx emission standards by June 2004.	N/A

6	The Cement industry will control fugitive emission from all the raw materials and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emission from limestone and coal storage area will be decided by the National Task Force (NTF) The NTF shall submit its recommendations within three months.	The company has taken care to control the fugitive emission from all the raw materials, products storage and transfer points by installing bag filters.
7	CPCB, NCCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003	Not Applicable ,as no cement Kiln at site
8	After performance evaluation of various types of continuous monitoring equipments and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/ sections for installation of continuous monitoring systems(CMS) by December 2003.	Opacity Meter have been installed in the stacks attached to bag house for continuous monitoring.
9	Tripping in the ESP to be minimized by July 2003 as per the recommendations of NTF.	Not Applicable. <i>We have only Bag Filters.</i>
10	Industries will submit the target date to enhance the utilization of Waste material by April, 2003	We are having only grinding unit . Therefore, We are utilizing slag as Waste Material of Bhilai Steel Plant
11	NCCBM will carry out a study on Hazardous Waste utilization in cement kiln by December, 2003	Not Applicable ,as no cement Kiln at site
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July, 2003.	As the industry is having only grinding unit and the temperature required for grinding purpose is only 300-400 °C. , therefore, co-generation of power is not feasible.

Bhilai Jaypee Grinding Plant, Bhilai
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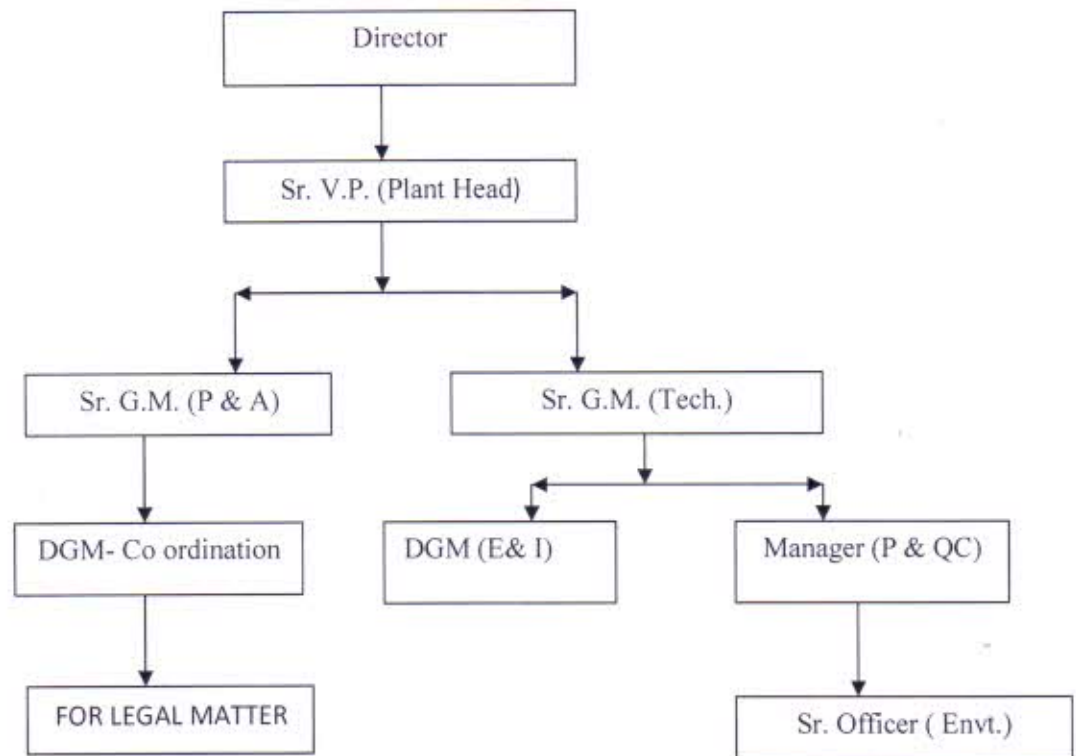
Monitoring Station								
Month	Switch Yard dB(A)		Coal Yard dB(A)		Wagon Tippler dB(A)		Auto Work Shop dB(A)	
	Day	Night	Day	Night	Day	Night	Day	Night
October , 2014	61.6	61.1	61.2	60.3	61.9	60.9	61.7	61.2
November, 2014	62.5	61.0	63.4	61.3	63.7	61.8	65.8	62.5
December, 2014	59.6	58.8	60.9	59.3	63.3	61.1	63.8	62.1
January, 2015	59.2	58.3	61.3	59.5	62.9	60.2	64.0	62.3
February, 2015	59.2	58.0	59.3	58.2	62.8	59.9	64.1	61.4
March, 2015	58.3	57.1	59.2	57.2	60.8	57.4	63.8	61.8

Capital Investment for Pollution Control Measures

Sl. No.	Years of Establishm ent.	Name of equipments	Rs. in Lacs
1	2009-10	Procurement , Construction , Fabrication and Erection Bag Filters by following parties. 1- M/S. Enexco Technology. 2- M/S . F.L.S. 3- M/S. J.P. Cement	Rs. 120.00 Rs. 900.00 Rs. 100.00
2	2009-10	Monitoring Equipments + Misc.	Rs. 7.00
3	2010-11	Water Spraying system at coal combustor	Rs. 5.00
4	2010-11	Construction of shed for Coal yard	Rs. 15.0
5	2010-11	Construction of shed for Gypsum yard	Rs. 50.0
6	2010-11	Construction of shed for Wagon tippler to control fugitive emission	Rs. 20.0
7	2010-11	Construction of shed for conveyor belt top cover for control of fugitive emission	Rs. 20.0
8	2010-11	Development of Green belt	Rs. 10.0
9	2010-11	Installation of Opacity meter in bag house stack	Rs. 4.50
10	2011-12	Covering of wagon loading platform and conveyor belt for control of fugitive emission.	Rs. 275.0
11	2011-12	Installation of Dust Suppression system at wagon tippler unloading area (Cold Fog System)	Rs. 60.0
12	2011-12	Installation of Opacity meter in cement packing plant stacks (2 Nos).	Rs. 8.0
13	2011-12	Installation of Bag filters at Wagon Tippler-One No.	Rs.12.0
14	2011-12	Modification work in Clinker Hopper of Mill1 & 2 for control of fugitive emission.(Extra De-dusting line arrangement, Covering of Mill 1 & 2 clinker apron Feeder Open area etc.).	Rs. 2.0
15	2011-12	Development of Green Belt.	Rs. 4.5
16	2012-13	Installation of Water Sprinkler at Coal Storage Area.	Rs. 0.1
17	2012-13	Construction of additional new Coal Storage shed	Rs. 30.0
18	2012-13	Covering of Coal Combustor Building	Rs. 10.0
19	2012-13	Development of Green Belt.	Rs. 5.5
20	2012-13	Installation of Bag filter at wagon tippler	Rs. 1.25
21	2012-13	Modification at Clinker Hopper De – Dusting line for control of fugitive emission	Rs. 1.0
22	2012-13	Replacement of Flap dumper by Rotary Air Lock 2 Nos	Rs. 1.5
23	2012-13	Wagon Tippler & Hopper Building Bag Filter Discharge diverted to hopper	Rs. 0.30
24	2013-14	521 BF7 New Venting line fabricated and erected	Rs. 0.20
25	2013-14	Additional venting lines provided to Apron feeders to improve de-dusting	Rs. 0.20
26	2013-14	Additional venting lines provided to weigh feeders to improve de-dusting	Rs. 0.20
27	2013-14	Installation of Manometers in packing plant Bag filters 641BF-2 & 642BF-2	Rs. 0.10
28	2013-14	Installation of Bag Filter at wagon tippler hopper	Rs. 12.0
29	2013-14	Replacement of Bag filter of 521BF7 from 611BF-H	Rs. 5.5
30	2013-14	Development of green belt	Rs. 6.74
31	2014-2015	Development of green belt	Rs. 3.85
32	2014-2015	Continuous Ambient Air Quality Monitoring System	Rs. 27.25
33	2014-2015	Continuous Stack Emission Software	Rs. 2.400
		TOTAL EXPENDITURE (Approx.)	Rs. 1717.24

BHILAI JAYPEE GRINDING PLANT, BHILAI
A UNIT OF JAYPEE CEMENT LIMITED

Hierarchical system or Administrative order of the company to deal with the environmental issues and ensuring compliance to the environmental clearance conditions,



SYSTEM OF ENSURING COMPLIANCES AND REPORTING OF NON-COMPLIANCE/ VIOLATION OF ENVIRONMENTAL NORMS TO THE BOARD

At all units of Jaypee Cement, the **Environment Management Cell (EMC)**, headed by Vice President/General Manager and supported by a well equipped Environmental Monitoring Laboratory is having qualified & well experienced team of Environmental Engineers/ Scientists. EMC is responsible for the day to day activities related to the monitoring of environmental parameters, compliances of general and specific conditions of Environmental Clearance, maintaining records, data compilation and analysis, obtaining consents, authorization and other statutory permissions of Hazardous Wastes, ground water withdrawal etc. Any non-compliance/ violation of the environment norms are immediately reported to the unit Head, who is directly responsible to the compliances as per the law.

For the internal surveillance of the compliances and to provide technical support in resolving the environmental issues, the company adopts two tier approach, one at Zonal Level and other at the Corporate level to ensure that the units conform to the environmental standards and all other compliances, prescribed by the SPCB/ MoEF/ CPCB.

In case, any minor violation of advisory nature is observed during inspection by the SPCB/CPCB/ MoEF official(s) and communicated in writing to the plant, it will immediately be reported to the Unit Head and will be rectified through concerned departmental head. In case of major non compliance/ violation of the environmental norms or any Notice/ Direction under Section 31 A of the Air (Prevention and Control of Pollution) Act 1981 under Section 33 A of the Water (Prevention and Control of Pollution) Act 1974 under Section 5 of the Environment (Protection) Act 1986 received, is immediately reported by the Head, EMC to the Unit Head, Zonal Environmental Head, President/ Head Corporate Environment group. President / Head Corporate Environment group reports this matter to the Managing Director, Executive Chairman and to the Board of Directors of the Company. He is fully responsible for the implementation of all the decisions of the Board, related to the statutory compliances to the environmental regulation and overall improvement of the green image of corporate environment.