

**The Regional Director**

Ministry of Environment & Forest

Regional Office(WZ)

Kendriya Parayavaran Bhawan,  
E-5,Arera Colony,Link Road No-5,  
Ravi Shanker Nagar,Bhopal (M.P.) 462010

**Subject: Six monthly compliance report of Jaypee Sidhi Cement Plant of M/S Jaiprakash Associates Limited for the Environmental Clearance granted by Ministry of Environment & Forest Vide letter No.- J-11011/51/2007-IA II(I) dated 09.08.2007.**

Dear Sir,

1. We have been granted Environmental Clearance (EC) vide your above referred letter, dated 09.08.2007.
2. In compliance to clause XIV of General conditions, Six monthly compliance report for the period, **October, 2012 to March, 2013** to the conditions specified in the Environmental Clearance, is hereby submitted for your kind information please.

Thanking you  
Yours faithfully

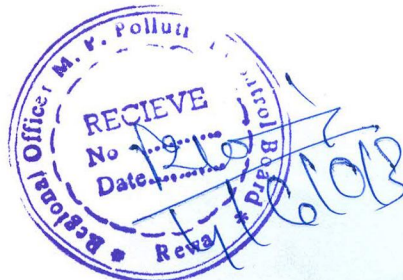
  
(S.C.Srivastava)

*Imit*  
Sr. Vice President (Technical)  
Jaypee Sidhi Cement Plant  
(A Unit of Jaiprakash Associates Ltd)

Encl- As above  
Copy to :

**JAYPEE SIDHI CEMENT PLANT**  
(A Unit of Jaiprakash Associates Ltd.)  
Jaypee Vihar, Distt. Sidhi (M.P.)  
Phones-07802-276703,276704

1. The Zonal Officer, Central Pollution Control Board, IIIrd floor, Shakar Bhawan, North T.T. Nagar, Bhopal(M.P.)462003
2. The Member Secretary, Parayavaran Bhawan, M.P. Pollution Control Board, E-5, Arera Colony, Bhopal (M.P.)462016
3. The Regional Officer, M.P. Pollution Control Board, MIG-190/191,Nehru Nagar, Rewa(M.P.)486001



**Status of Compliance to the conditions stipulated in the Environmental Clearance granted by MoEF vide letter No-J-110011/51/2007-IA II (I) dated 09.08.2007 for Jaypee Sidhi Cement Plant (A Unit of Jaiprakash Associates Ltd) for Cement Plant(2.00 MTPA), Clinker (1.5 MTPA) and Captive Power Plant(35 MW) at Majhigawan, Tehsil Rampur Naikin , Sidhi (M.P.)**



**(Period: October, 2012 - March, 2013)**

**Jaypee Sidhi Cement Plant**



**(A Unit of Jaiprakash Associates Ltd.)**



**Bhagwar, Sidhi – 486776 (M.P)**




**[www.jalindia.com](http://www.jalindia.com)**

**Status of Compliance to the conditions stipulated in the Environmental Clearance granted by MoEF vide letter No-J-110011/51/2007-IA II (I) dated 09.08.2007 for Jaypee Sidhi Cement Plant (A Unit of Jaiprakash Associates Ltd) for Cement Plant(2.00 MTPA), Clinker (1.5 MTPA) and Captive Power Plant(35 MW) at Majhigawan, Tehsil Rampur Naikin , Sidhi (M.P.)**

**1. Specific Conditions**





No.	Conditions	Status of compliance
i	Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50 mg/Nm <sup>3</sup> by installing adequate air pollution control system. On-line monitoring system data shall be submitted to the MPPCB and CPCB regularly.	<p>Continuous monitoring system (Opacity meter) has already being provided in all major stacks i.e. Raw mill &amp; Kiln, Coal mill, Cooler, Cement mill &amp; 35MW-CPP. Adequate air pollution control system has already been installed. Stack emissions level of particulate matter are kept below 50 mg/Nm<sup>3</sup>. On-line stack monitoring station is being installed &amp; Monitoring data submitted to MPPCB/CPCB monthly basis. CEMS installation work under progress. Emission data of stacks will be linked to MPPCB &amp; CPCB web site .</p> <p><b>Annexure-I</b></p> 
ii	Electrostatic precipitator (ESP) to Captive Power Plant (CPP) and Clinker Cooler ; Bag house to Kiln/Raw mill; air jet type bag filters at transfer points and bag filters to raw mill hopper, crushing plant, blending silo, cement silo and clinker storage shall be provided.	<p>ESPs provided at Captive power plant and Clinker Cooler. Bag house have been provided at Raw Mill, Coal Mill &amp; Cement Mill and Bag filters provided at Limestone Crusher, Cement Packer and all transfer points. <b>Annexure-II</b></p> 
iii	Secondary fugitive emissions shall be controlled as per the CPCB guidelines.	<p>It is being controlled as per the guidelines of CPCB. In addition to Bag House and Bag filters are provided at all the transfer points, Regular water sprinkling on roads for dust suppression. <b>Annexure-III</b></p>









		Water Sprinkling.JPG
iv	Total water requirement from Bansagar Canal shall not exceed 4,506 m <sup>3</sup> /day as per the permission accorded by the Water Resource Department, Govt. of M.P vide letter dated 8 <sup>th</sup> March, 2007. The wastewater from CPP and domestic effluents shall not exceed 897 m <sup>3</sup> /day and 555 m <sup>3</sup> /day and all the treated waste water shall be recycled and reused in greenbelt development, dust suppression in raw material area, coal yard and for ash quenching. 'Zero' discharge shall be strictly adopted and no effluents from the process shall be discharged outside the premise. Domestic effluents shall be properly treated and used for greenbelt development and dust suppression.	<p>Permission granted by Water Resource deptt. Govt. of MP for water draws from Bansagar canal of 4506 m<sup>3</sup>/day. At present our water consumption is in the range of <b>1550-1600</b> m<sup>3</sup>/day . The treated waste water generated from the CPP &amp; colony is used for green belt development and for dust suppression. We are strictly maintaining zero effluent discharge. Water consumption report is attached as a <b>Annexure-IV</b></p>  <p>Water Consumption Permission.pdf</p>
v	The fly ash shall be stored in fly ash silo and 100% utilized in cement plant to manufacture PPC. Bottom ash shall be used for back filling of mines. The dust generated shall be properly recycled and reutilized in the cement plant itself. STP sludge shall be utilized as manure for greenbelt development within the premises. Used oil and grease shall be sold to the authorized recyclers / re-processors.	<p>Fly ash is stored in fly ash silo and 100% utilized in the cement plant. Bottom ash is used for land filling in the low lying area and mined out area. The dust extracted in the air pollution control equipment is being recycled and reutilized in the cement plant. The sludge generated from the STP is being utilized as manure for plantation &amp; horticulture purpose. <b>Annexure-V</b></p> <p>Hazardous Waste such as Used oil and waste oil is being sold to the authorized recyclers / re-processors.</p>  <p>FORM-4 HWAR.pdf</p> <p>Used oil is being sold to M/s Sarvayapi Petrochem Pvt. Ltd, Industrial area, Malanpur, Disst- Bhind (M.P) an authorized recycler / re-processors.</p>
Vi	As proposed in EIA/EMP, green belt shall be developed in 40 ha. (33%) out of total 120.626 ha. As per the CPCB guidelines to mitigate the effects of the gaseous emissions.	Ten years green belt development plan is prepared to cover an area of 40 ha. (33%) of the plant as submitted to MPPCB.. The land where green belt has to be developed was identified and earmarked on the layout plant. We have already planted 29367 trees in 15 ha. Till March 2013. Plantation details enclosed as <b>Annexure-VI</b>





vii	All the recommendations of the Corporate Responsibility of Environmental Protection (CREP) shall be strictly followed and SPM concentrations below 50 mg/Nm <sup>3</sup> shall be maintained in kiln, coal mill, cement mill and clinker cooler.	All the action points of CREP are strictly followed and our stack emissions are well below 50 mg/Nm <sup>3</sup> in all the stacks. Status of compliance to CREP action point is provided as <b>Annexure-VII</b> .  CREP REPORT-JSCP.docx
viii	A provision shall be made for the use of high calorific value waste in the cement kiln.	Explore the possibilities to find out the sources of waste (high calorific value) in the vicinity of our plant are going on. After ensuring the availability of the waste the process of co-processing will be initiated. The quantity to be assessed and accordingly provision shall be made after necessary approval from SPCB& CPCB.
ix	Prior permission from the State Forest Department regarding impact of the proposed cement plant on the Govindgarh Reserve Forest shall be obtained and compliance to all the recommendations shall be ensured.	Permission from the State Forest Department has already been taken vide letter no. MA CHI/ 535, dated 05.05.2007. The recommendation of State forest Department is attached as <b>Annexure-VIII</b>  Wild life.pdf  NBWL NOC COPY.doc




## 2. General Conditions

No.	Conditions	Status of compliance
i	The project authority shall adhere to the stipulations made by the Madhya Pradesh Pollution Control Board (MPPCB) & the State Government.	Noted and Agreed
ii	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment & Forest.	Noted and Agreed
iii	The gaseous & particulate emissions from various processes units shall conform to the Standards Prescribed by the MPPCB. At no time, particulate emissions from the cement plant including kiln, coal mill, and cement mill, cooler shall exceed beyond the permissible limit. 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.	<p>Gaseous &amp; Particulate emission from various stacks is conforming to the standard prescribed by MPPCB. Stack emissions level confirm to the particulate matter emission standard of 50 mg/Nm<sup>3</sup>. Interlocking facility have been provided with the air pollution control equipment and the process equipment. Stack monitoring data is attached as a <b>Annexure-IX</b></p>  <p>Stack data.xlsx</p>
iv	At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> & NO <sub>x</sub> are anticipated in consultation with the MPPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the state authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with MPPCB and data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Bhopal, MPPCB and CPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated time to time.	<p>Four Ambient air quality monitoring stations are setup in consultation and as per the guideline of MPPCB. Installation of online continuous ambient air monitoring system (CAAQM) work has been completed as per approved location by the MPPCB in upwind &amp; downwind direction.</p>    <p>AAQMS Location Approval.pdf      Apprval AAQ location.pdf      WIND ROSE.jpg</p> <p>Regularly monitoring of RSPM, SO<sub>2</sub> &amp; NO<sub>x</sub>, CO and Noise level is carried out by both internally and third party (Regional Office MPPCB). The data of Ambient air quality and Noise level is regularly submitted to MPPCB on monthly basis. The data of Ambient Air Quality is attached as <b>Annexure IX</b></p> <p>The instruments used for AAQ monitoring are being calibrated by third party every year. <b>Annexure-X</b></p>

		 Six monthly AIR Ambient DATA.xlsx  Calibration report.pdf
v	The company shall install adequate dust collection & extraction system to control fugitive dust emissions at material transfer points by concreting / asphaltting the roads, providing water spray system, covered stock pile for clinker storage and gypsum, storage of fly ash in silo, water sprinkling at limestone and coal handling area. Storage of other raw materials shall be in closed roof sheds. Covered conveyer belts shall be used to reduce fugitive emissions within permissible limit.	<p>Installed 74 Bag filters at transfer points for controlling fugitive dust emissions. The internal road of the plant has been concreted. Water spray system has been provided on the road side, coal yard &amp; limestone crusher. Roof sheds have been provided for storage of raw material such as Gypsum and Iron ore. Fly ash is stored in the silo. <b>Annexure-XI</b></p>  BAG FILTERS DETAILS.docx  WATER SPRINKLING.JPG  STEEL SILO FLY ASH COVERED SHED.pptx  .JPG
Vi	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	<p>Zero discharge status is maintained in our plant. For the treatment of workshop effluent an oil &amp; grease trap has been provided. Treated water is utilized for green belt development and for dust suppression. <b>Annexure-XI</b></p>  Oil & grease.docx
Vii	The overall noise levels in and around the plant area shall be kept well within the standards 85 dB(A) 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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dB(A) (daytime) and 70 dB(A) (night time)	<p>Noise control measures such as acoustic hoods, silencers, enclosures etc .have already been provided .The Ambient Noise level is well within the prescribed standards. The data of Ambient Noise level is attached as <b>Annexure-XII</b></p>  Noise Control Measures.pptx
viii	Proper housekeeping & adequate occupational health programmes shall be taken up. Occupational Health Surveillance Programme shall be done on a regular basis and record maintained properly for at least 30 - 40 years. The programme shall include lung function and sputum analysis tests once in six months. Sufficient preventive	<p>Proper housekeeping is maintained. Regular occupational health checkup of the workers is being carried out. An occupational health checkup record is being maintained . Audiometric test is being carried out for the workers working in high noise level area. The Occupational health surveillance is being carried out and 861 employees have been completed</p>

	measures shall be adopted to avoid direct exposure to dust etc.	during Oct -2012 to March-2013. A sample report as attached <b>Annexure-XIII</b>   OHP.pptx
ix	The company shall harvest the rainwater from the rooftops and storm water drains to recharge the ground water and the use the same water for the various activities of the project to conserve fresh water.	A study on the rain water harvesting from the roof top and storms water drain has been carried out. The report has been received and point wise action plan has been implemented in colony area & Plant Area. The report is attached as <b>Annexure-XIV</b>   Sidhi RWH Report.doc
x	The company shall under take eco-development measures including community welfare measures in the project area.	Eco-club for the company executives, which is undertaking Environment Awareness programs for the nearby schools & villagers such as poster competition, debates, discussion of various environmental issues of the local area ,water & air pollution, tree plantation, rainwater harvesting, housekeeping, sanitary system etc. is working under the aegis environment cell CSR activities are already going on. The details of the eco-development measures and community welfare measures under taken are attached. <b>Annexure-XV</b>    CSR.pptx      Community development.docx
xi	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP .	Noted and Agreed. All the environmental protection measures recommended in the EIA/EMP report are implemented.
xii	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Environmental management cell with full-fledged laboratory facility to carry out various management and monitoring functions has already been setup under the control of Unit Head.
xiii	As mentioned in the EIA/EMP, Rs. 72.81 Crores and Rs. 2.43 Crores towards capital cost and recurring cost per annum for	Separate budget of Rs.2.43 Crore towards recurring cost per annum for environment pollution control measures shall be used exclusively to



	environment pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry. The funds so provided shall not be diverted for any other purpose.	implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government have been kept. All the expenditure incurred by the unit towards pollution control & environment management will be booked into this budget under Environment Head.  The details of the expenditures incurred for the installation of the pollution control equipment and other environment protection measures for implementation of the conditions stipulated in the environmental clearance towards the Capital cost and Recurring cost during 2011-12_ is provided at <b>Annexure-XVII</b> .   Recurring & Capital cost (2).docx
xiv	The Regional Office of this Ministry at Bhopal / CPCB/MPPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly	Six monthly compliance report is regularly submitted to MoEF, Regional Office, Bhopal, CPCB and MPPCB. The Last report was submitted vide letter no JAL/JSCP/EC/2012 dated 01/12/2012
xv	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.	Noted and Agreed
xvi	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 MPPCB / Committee and may also be seen at website of the Ministry of Environment & Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertise within seven days from the date of issue of clearance letter, at least in two local newspapers 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 shall be forwarded to the Regional Office at Bhopal.	Published the advertisement in the Dainik Jagran dated 11.08.2007 in Hindi & English language . Copy of the advertisement is attached as <b>Annexure- XVIII</b> .  PUBLIC HEARING OF ADVERTISEMENT-JSCF
xvii	The ministry or any other competent authority may stipulate any further condition (s) on receiving reports from the project authorities. The above condition shall be monitored by the Regional office of this Ministry located at Bhopal.	Noted and Agreed
xviii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and Agreed
xix	Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound	Noted and Agreed

	manner.	
xx	The above conditions shall be enforced, inter-alia under the provisions of the Water(Prevention and Control of Pollution) Act,1974, the Air(Prevention and Control of Pollution) Act,1981, the Environment (Protection)Act,1986 and the Public Liability Insurance Act,1991 along with their amendments and rules.	Noted and Agreed