

Ref.No-80212/5
20th Nov, 2015

**The Additional Director,
Government of India
Ministry of Environment, Forest & Climate Change
(I.A. Division)
Indira Paryavaran Bhavan
Aliganj, Jorbagh Road
New Delhi – 110 003**

Sub: - Submission of six monthly compliance report (April, 2015 to Sept, 2015) of EC letter for expansion Project from 1.2 MTPA to 2.9 MTPA of clinker and from 2.0 MTPA to 4.00 MTPA of cement of M/s OCL INDIA LTD at Village - Rajgangpur, Tehsil Rajgangpur, District - Sundargarh, Odisha.

Ref:- Environment Clearance letter F.No.J-11011/352/2005-1A II (I) dated 5th April 2007

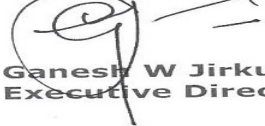
Dear Sir,

With reference to above letter, we enclose herewith the six monthly compliance report of conditions stipulated in the Environmental Clearance for the above project.

Thanking you

Yours sincerely

FOR **OCL INDIA LIMITED**



**Ganesh W Jirkuntwar
Executive Director (Mfg.)/Cement.**

Encl: As above.

Copy to:

1. The Chairman
Central Pollution Control Board
Parivesh Bhavan
CBD-cum-Office Complex
East Arjuni Nagar
DELHI – 110 032
2. The Director (S)
Government of India
Ministry of Environment and Forest
Eastern Regional Office
A/3, Chandrasekharapur
BHUBANESWAR – 751 023
3. The Chairman
State Pollution Control Board, Orissa
Parivesh Bhavan
A/118, Nilakanthnagar, Unit – VIII
BHUBANESWAR – 751 023

**SIX MONTHLY COMPLIANCE REPORT
(APRIL, 2015 TO SEPTEMBER, 2015)
OF
ENVIRONMENT CLEARANCE LETTER No.F.No
J-11011/352/2005-1A II (I) DATED 5th APRIL, 2007
FOR EXPANSION PROJECT**

**FROM 1.2 MTPA TO 2.9 MTPA OF CLINKER
AND
2.0 MTPA TO 4.0 MTPA OF CEMENT
BY**

**OCL INDIA LIMITED
RAJGANGPUR – 770017
DIST- SUNDARGARH
ODISHA**

Date : 20^h Nov ,2015

OCL INDIA LTD, RAJGANGPUR

Sub: Submission of Six monthly compliance report (April,2015 to Sept,2015) of conditions stipulated in Environmental Clearance letter No. F.No. J- 11011/352/2005-1A II (I) dated 5th April 2007 by MoEF for the Project of OCL India Limited, Rajgangpur.

A. SPECIAL CONDITION

Sl. No	Description of Conditions	Compliance Status																																			
i	<p>The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the Orissa State Pollution Control Board (OSPCB). At no time, the particulate emissions from the cement plant shall exceed OSPCB 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 is shut down automatically.</p>	<p>a. Stack emission measurements are taken every month. Data for the period (April,14 to September,14) is given in the table set out below, from which it would be noted that the company had strictly been adhering to the prescribed norm of maintaining the emission level to below 50 mg/Nm³.</p> <p>Table No:- A i.a</p> <table border="1" data-bbox="690 591 1730 745"> <thead> <tr> <th data-bbox="690 591 915 618">Stack attached to</th> <th colspan="6" data-bbox="915 591 1730 618">Particulate matter emission in mg/Nm³</th> </tr> <tr> <td data-bbox="690 618 915 646"></td> <th data-bbox="915 618 1037 646">April - 15</th> <th data-bbox="1037 618 1178 646">May - 15</th> <th data-bbox="1178 618 1299 646">June - 15</th> <th data-bbox="1299 618 1421 646">July - 15</th> <th data-bbox="1421 618 1562 646">Aug - 15</th> <th data-bbox="1562 618 1730 646">Sept - 15</th> </tr> </thead> <tbody> <tr> <td data-bbox="690 646 915 673">Kiln & VRM B/F</td> <td data-bbox="915 646 1037 673">17.2</td> <td data-bbox="1037 646 1178 673">18.6</td> <td data-bbox="1178 646 1299 673">14.8</td> <td data-bbox="1299 646 1421 673">13.5</td> <td data-bbox="1421 646 1562 673">19.1</td> <td data-bbox="1562 646 1730 673">16.6</td> </tr> <tr> <td data-bbox="690 673 915 701">Coal Mill B/F</td> <td data-bbox="915 673 1037 701">14.3</td> <td data-bbox="1037 673 1178 701">15.4</td> <td data-bbox="1178 673 1299 701">14.5</td> <td data-bbox="1299 673 1421 701">13.8</td> <td data-bbox="1421 673 1562 701">17.6</td> <td data-bbox="1562 673 1730 701">18.0</td> </tr> <tr> <td data-bbox="690 701 915 745">Cooler ESP</td> <td data-bbox="915 701 1037 745">24.8</td> <td data-bbox="1037 701 1178 745">22.1</td> <td data-bbox="1178 701 1299 745">22.0</td> <td data-bbox="1299 701 1421 745">21.7</td> <td data-bbox="1421 701 1562 745">21.7</td> <td data-bbox="1562 701 1730 745">25.3</td> </tr> </tbody> </table> <p>b. Interlocking facility has been provided in PLC (Programmed Logic Control) controlled computer operation of the plant in such a way that in the event of Bag filter of Kiln & VRM tripping, kiln feed gets shut down automatically.</p>	Stack attached to	Particulate matter emission in mg/Nm ³							April - 15	May - 15	June - 15	July - 15	Aug - 15	Sept - 15	Kiln & VRM B/F	17.2	18.6	14.8	13.5	19.1	16.6	Coal Mill B/F	14.3	15.4	14.5	13.8	17.6	18.0	Cooler ESP	24.8	22.1	22.0	21.7	21.7	25.3
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ii	<p>Continuous on-line monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50 mg/Nm³ by installing adequate air pollution control system. On-line monitoring data shall be submitted to the OSPCB and CPCB regularly.</p>	<p>Continuous stack monitoring system has been installed. On-line data is being transferred through GPRS to OSPCB/CPCB server.</p>																																			

iii	<p>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 stack emissions shall be carried out regularly in consultation with OSPCB and report submitted to the OSPCB quarterly and to the Ministry's Regional Office at Bhubaneswar half-yearly. One ambient air quality monitoring station shall be installed in downwind direction.</p>	<p>a. Monitoring of Ambient air quality is carried out regularly in consultation with SPCB. The measured data are given hereunder which are within the prescribed standard stipulated under EPA/SPCB. (data on ambient noise level is shown in B. vi under general condition) Table No:- A.ii.a</p> <p>b. Monitoring of ambient air quality and stack emissions is carried out regularly in consultation with OSPCB and report is being submitted to the OSPCB on monthly basis and to the Ministry's Regional Office at Bhubaneswar on half-yearly basis. Ambient air monitoring stations are installed in consultation with OSPCB.</p>
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Ambient air quality monitoring reports are hereunder:

Table No. A.ii.a

Location of sampling station	SO ₂ (µg / m ³)	NO _x (µg / m ³)	Particulate matter (size less than 10µm) or PM ₁₀ (µg / m ³)	Particulate matter (size less than 2.5µm) or PM _{2.5} (µg / m ³)	Ozone (O ₃) (µg / m ³)	Lead (Pb) (µg / m ³)	CO (mg / m ³)	Ammonia (NH ₃) (µg / m ³)	Benzene (C ₆ H ₆) (µg / m ³)	Benzo(a) Pyrene (BaP) - particulate phase only (µg / m ³)	Arsenic (AS) (µg / m ³)	Nickel (Ni) (µg / m ³)
WORKSHOP BUILDING	6.5	20.0	73.5	28.0	25.0	0.47	0.25	53.5	<0.1	<0.1	<1.0	<5.0
CCR BUILDING	7.5	26.0	69.5	28.0	28.0	0.50	0.26	39.0	<0.1	<0.1	<1.0	<5.0
NEAR WATER HARVESTING AREA OF CPP	4.5	17.0	60.0	20.5	19.6	0.40	0.10	27.0	<0.1	<0.1	<1.0	<5.0
DITC BUILDING	4.5	17.0	64.0	24.0	24.0	0.41	0.17	52.0	<0.1	<0.1	<1.0	<5.0

iv	<p>The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. ESP to Cooler and cyclone & bag filter to kiln, CVRM and bag filters shall be provided in the coal mill and cement mills to control air emissions less than 50 mg/Nm³. Jet pulse bag filters/dust extraction system shall be provided to control fugitive emissions in raw material, coal handling and cement grinding areas. Dust suppression system at unloading hoppers, discharge gate of silos and totally closed operations for all belt conveyers and storage etc shall be used. Raw materials shall be stored in closed roof sheds and clinker in silos.</p>	<ul style="list-style-type: none"> a. ESP, Cyclones & Bag filters are installed at respective places so as to minimise fugitive dust emission in the plant. b. Bag house installed for CVRM & Coal mill to maintain stack emission below 50 mg/Nm³.. c. Water sprinkling on the road as required. d. Road sweeping machines are deployed on regular cleaning of roads both in Plant and Colony. e. Closed shed for Raw material storage. f. Belt conveyors are totally covered. g. Clinker is stored in clinker silo.
v	<p>Asphalting/concreting of roads and water spray all around the coal stockpiles shall be carried out to control fugitive emissions.</p>	<p>Concreting & /or black - topping or paving with hard solid reject Refractory bricks are completed. Road sweeping machines based on vacuum suction are deployed & Water spray is being done as per requirement to control the fugitive dust.</p>
vi	<p>Total water requirement from the Nakti nala and ground water source shall not exceed 5,788 m³/d including 785 m³/d respectively and prior permission for the drawl of ground water from the SGWB/CGWA shall be obtained. All the treated wastewater shall be recycled and reused in the process, dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic effluent treated in Sewage Treatment Plant (STP) shall be used for green belt development within the plant and colony area.</p>	<ul style="list-style-type: none"> 1. It is ensured that the water consumption shall not exceed the quantity 5,788 m³/d including 785 m³ /d from the Nakti nala and ground water source respectively. Approval from the Additional Secretary, Govt. of Orissa, Dept. of water resources for our drawl of additional 3.17 cusecs of water from River Sankh is already received. 2. There is no effluent discharged outside the factory premises and 'zero' discharge is adopted as per direction. The treated water of ETP is reused in the plant for process cooling & sprinkling on the road. 3. Domestic sewerage is treated in STP. The treated water is used for green belt development.
vii	<p>All the cement dust collected from pollution control devices shall be recycled and reutilized in the process. Char from sponge iron plant of M/s.OCL shall be used as raw material in manufacturing cement and mixed with feed. Hazardous waste viz. Used oil from gear boxes and automotive batteries etc shall be properly stored in a designated area and sold to authorized recyclers/re processors.</p>	<ul style="list-style-type: none"> a. Dust collected from pollution control devices is recycled and reutilized. b. Char is used as raw material. c. Used oil & batteries are stored at earmarked area and given to the authorized recyclers / reprocessors only.

viii	The company must harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	<p>a. A pilot project of roof top water harvesting and one for storm water drains have been implemented. This project is implemented as per guidance of the office of Hydrologist, Ground water survey & investigation division, Sambalpur, Government of Orissa. Other Rain water harvesting projects are in progress.</p> <p>b. Central Ground Water Board official is consulted.</p> <p>c. Rain water harvesting from semi circular Raw Materials shed is completed in Line-1 unit which shall be extended in other similar shed.</p>
ix	Green belt shall be developed in at least 28.0 ha out of total 91.15 ha land in consultation with the local DFO as per the CPCB guidelines.	Mentioned in compliance status of special condition no..vii. of environment clearance letter No.J-11011/260/2004-IA.II (I) dated 21 July 2005.
x	The company shall undertake eco-development measures including community welfare measures in the project area.	Company has been continuously doing eco-developing work in the surrounding area which details are mentioned in the compliance report of EC letter No J-11011/260/2004-IA.II (I) dated 21 July 2005.
xi	All the recommendations mentioned in the Charter on the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed.	It is being complied.
xii	High calorific hazardous waste shall be used as fuel in the cement kiln. Accordingly provision shall be made in the kiln.	Waste containing oil is being burnt in cement kiln. We are in process to get permission for tyre chips.
xiii	Prior permission from the State Forest Department shall be obtained regarding likely impact of proposed expansion on the reserve forests viz. Gudiali RF (3 km), Tunmura R.F. (6.5 km) Chudia RF (6.5 km) and Hathidhara R.F. (4 km) and recommendations/suggestions, if any shall be implemented in a time bound manner.	The new plant is located adjacent to our existing cement plant. The new plant is equipped with latest pollution control equipments like Bag House in Kiln/VRM circuit, ESPs which are very efficient, covered shed for raw material storage and covered conveyor belts for material transportation etc. Therefore the likely impact due to this expansion is expected to be very insignificant. However we have already applied to State Forest Department and matter is under process and we will communicate the recommendations / suggestions, if any of the State Forest Department, when received.

B. GENERAL CONDITION

Sl. No	Description of Conditions	Compliance Status																		
i	The Project authority must adhere to the stipulation made by Orissa State Pollution Control Board and State Government.	It is being complied as per OSPCB guideline.																		
ii	No expansion or modification of the plant should be carried out without prior approval of this Ministry.	Noted for compliance.																		
iii	Adequate number of ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SO ₂ and NO _x are anticipated in consultation with the OSPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneshwar and OSPCB once in six months.	<p>a. There are 4 ambient air quality monitoring stations,(data on ambient air quality is shown in the above table A.ii.a iii under specific condition)</p> <p>b. The coal used in cement kiln is a low sulphur content coal. So SO₂ content is very low. Similarly the Burner used in cement kiln is a special designed burner, which does not generate Nox during firing. The measured data are mentioned above in special condition table Table No:- A.ii.a.</p>																		
iv	Industrial waste water should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated waste water shall be recycled in the plant as well as utilization for plantation purposes.	<p>a. Industrial waste water is treated in ETP & analysis result of treated water is well within the prescribed limit. The last report is as hereunder</p> <p style="text-align: center;">Date of sampling - 14.09.2015</p> <table border="1" data-bbox="863 846 1808 1062"> <thead> <tr> <th>Sl.No</th> <th>Parameter</th> <th>Result of ETP outlet treated water</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PH value</td> <td>7.4</td> </tr> <tr> <td>2</td> <td>Total suspended solids</td> <td>BDL</td> </tr> <tr> <td>3</td> <td>B.O.D (mg/l)</td> <td>BDL</td> </tr> <tr> <td>4</td> <td>C.O.D (mg/l)</td> <td>10.0</td> </tr> <tr> <td>5</td> <td>Oil & Grease (mg/l)</td> <td>BDL</td> </tr> </tbody> </table> <p>Note: BDL: Below detection limit. Minimum detection limit of TSS - 10 mg/l, B.O.D. - 5 mg/l, C.O.D. - 5 mg/l, Oil & Grease - 6 mg/l.</p> <p>b. The treated water is utilised in the plant for machineries cooling, sprinkling on road & green belt development.</p>	Sl.No	Parameter	Result of ETP outlet treated water	1	PH value	7.4	2	Total suspended solids	BDL	3	B.O.D (mg/l)	BDL	4	C.O.D (mg/l)	10.0	5	Oil & Grease (mg/l)	BDL
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5	Oil & Grease (mg/l)	BDL																		
v	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the OSPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.	It is complied.																		

vi	The overall noise levels in and around the plant area 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(daytime) and 70 dBA (nighttime).	<p>a. Noise monitoring is carried out at four locations (Table B.v.a.1). The last month data (Sept,2015) is given below</p> <table border="1" data-bbox="814 261 1940 537"> <thead> <tr> <th data-bbox="814 261 1171 375" rowspan="2">Particulars</th> <th colspan="4" data-bbox="1182 261 1940 293">Sampling Locations</th> </tr> <tr> <th data-bbox="1182 293 1339 375">WORKSHOP BUILDING</th> <th data-bbox="1350 293 1518 375">CCR BUILDING</th> <th data-bbox="1528 293 1717 375">NEAR WATER HARVESTING AREA OF CPP</th> <th data-bbox="1728 293 1940 375">DITC BUILDING</th> </tr> </thead> <tbody> <tr> <td data-bbox="814 383 1171 440">Noise level (L_{day}) during day time</td> <td data-bbox="1182 383 1339 440">66.3</td> <td data-bbox="1350 383 1518 440">68.2</td> <td data-bbox="1528 383 1717 440">71.4</td> <td data-bbox="1728 383 1940 440">69.6</td> </tr> <tr> <td data-bbox="814 448 1171 537">Noise level (L_{night}) during night time</td> <td data-bbox="1182 448 1339 537">53.8</td> <td data-bbox="1350 448 1518 537">57.6</td> <td data-bbox="1528 448 1717 537">59.5</td> <td data-bbox="1728 448 1940 537">58.2</td> </tr> </tbody> </table>	Particulars	Sampling Locations				WORKSHOP BUILDING	CCR BUILDING	NEAR WATER HARVESTING AREA OF CPP	DITC BUILDING	Noise level (L _{day}) during day time	66.3	68.2	71.4	69.6	Noise level (L _{night}) during night time	53.8	57.6	59.5	58.2
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vii	The project proponent shall comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment / Environmental Management Plan.	It is complied.																			
viii	As proposed in EIA/EMP, Rs.31.82 Crores and Rs.2.64 Crores earmarked toward the capital cost and recurring the expenditure/annum for environmental protection measures shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purposes.	It is being complied. The funds are utilised only for environmental protection.																			
ix	The Regional Office of this Ministry at Bhubaneswar /Central Pollution Control Board/OSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	. Six monthly reports are being submitted regularly																			

x	The Project proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests 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 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.	Already complied
xi	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.	Already complied
xii	The Regional office of this Ministry at Bhubaneswar/Central Pollution Control Board/State pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Six monthly reports are being submitted regularly.