

Ref.No-80212/5  
24<sup>th</sup> Nov ,2011

Additional Director  
Government of India  
Ministry of Environment and Forest  
(I.A. Division)  
Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi – 110 003

Dear Sir,

Sub: - Submission of six monthly reports of expansion –cum – modernization Project of cement plant from 0.7 MTPA to 1.2 MTPA of clinker and from 1.275 MTPA to 2.00 MTPA of cement of M/s OCL INDIA LTD at Village:- Rajgangpur, Tehsil:- Rajgangpur, District:- Sundergarh in Orissa.

Ref:- Your Letter No. :- J-11011/206/2004-IA II (I) dated 21<sup>st</sup> July 2005.

With reference to above letter, we are pleased to enclose herewith six monthly report on compliance status of conditions imposed by MoEF in regard to implementation of the expansion –cum – modernization Project of OCL INDIA LTD, Rajgangpur.

We hope your good self may kindly find the same in line with your requirement

Thanking you

Yours faithfully  
For OCL INDIA LIMITED

**D D Atal**  
**Whole Time Director**

CC: Director (S)  
Government of India  
Ministry of Environment and Forest  
Eastern Regional Office  
A/3, Chandrasekharapur  
**BHUBANESWAR – 751 023**

Encl: As above.  
The Chairman  
Orissa Pollution Control Board  
Parivesh Bhavan  
A/118, Nilakanthnagar, Unit – VIII  
**BHUBANESWAR – 751 023**

Encl: As above.

CC: The Chairman  
Central Pollution Control Board  
Parivesh Bhavan  
CBD-cum-Office Complex  
East Arjuni Nagar  
**DELHI – 110 032**

Encl: As above.

Date : Nov 24,2011

OCL INDIA LTD, RAJGANGPUR

**Sub: Submission of Six monthly report on compliance status of conditions imposed by MoEF in regard to implementation of the Expansion cum Modernisation Project of OCL India Limited, Rajgangpur**

This report of six monthly Compliance status of conditions imposed by the Ministry of Environment and Forests (MoEF), Govt. of India is submitted in terms of the instructions contained in the environment clearance letter No J-11011/206/2004-IA.II (I) dated 21 July 2005.

**A. SPECIAL CONDITION**

Sl.No.	Description of condition imposed by MoEF	Compliance Status																																																																																																																													
i	The gaseous and particulate matter emissions from various units shall confirm to the standards prescribed by the State pollution Control Board. At no time the particulate emissions shall exceed 50 mg/Nm <sup>3</sup> . Further, the company may also take appropriate additional measures to improve design and operating practices of pollution control equipment. Trippings in kiln ESP shall be minimized. 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>a. Stack emission measurements are taken and reported to Orissa State Pollution Control Board every month. Data for the period April -11 to Sept -11 (6 months) 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/Nm<sup>3</sup>.</p> <p>Table No:- A i.a</p> <table border="1"> <thead> <tr> <th rowspan="2">Stack attached to</th> <th colspan="6">Particulate matter emission in mg/Nm<sup>3</sup></th> </tr> <tr> <th>April- 11</th> <th>May- 11</th> <th>June- 11</th> <th>July- 11</th> <th>Aug- 11</th> <th>Sept- 11</th> </tr> </thead> <tbody> <tr> <td>Cement VRM-1 B/F</td> <td>34.0</td> <td>32.4</td> <td>31.6</td> <td>30.5</td> <td>29.4</td> <td>31.7</td> </tr> <tr> <td>Cement VRM-2 B/F</td> <td>34.9</td> <td>34.6</td> <td>33.6</td> <td>32.6</td> <td>31.5</td> <td>33.7</td> </tr> <tr> <td>Cement VRM-3 B/F</td> <td>29.5</td> <td>30.3</td> <td>28.3</td> <td>28.9</td> <td>28.4</td> <td>30.8</td> </tr> <tr> <td>Kiln + VRM ESP</td> <td>43.3</td> <td>44.2</td> <td>46.6</td> <td>47.2</td> <td>47.5</td> <td>43.1</td> </tr> <tr> <td>Cooler ESP</td> <td>30.7</td> <td>30.2</td> <td>34.5</td> <td>34.8</td> <td>33.3</td> <td>39.1</td> </tr> <tr> <td>Cement Mill (1&amp; 2) B/F</td> <td>23.9</td> <td>25.8</td> <td>24.9</td> <td>24.2</td> <td>24.0</td> <td>25.9</td> </tr> <tr> <td>Cement Mill (3&amp; 4) Hybrid filter</td> <td>22.2</td> <td>31.2</td> <td>26.7</td> <td>25.7</td> <td>27.1</td> <td>29.7</td> </tr> <tr> <td>Coal Mill B/F</td> <td>32.6</td> <td>31.2</td> <td>30.3</td> <td>28.9</td> <td>29.8</td> <td>29.8</td> </tr> <tr> <td>Packing Machine-1 B/F</td> <td>21.1</td> <td>22.6</td> <td>21.8</td> <td>22.1</td> <td>21.8</td> <td>23.1</td> </tr> <tr> <td>Packing Machine-2 B/F</td> <td>24.0</td> <td>24</td> <td>23.8</td> <td>24.3</td> <td>23.9</td> <td>21.9</td> </tr> <tr> <td>Packing Machine-3 B/F</td> <td>18.2</td> <td>18.9</td> <td>19.3</td> <td>19.0</td> <td>19.2</td> <td>20.3</td> </tr> <tr> <td>Packing Machine-4 B/F</td> <td>22.1</td> <td>22.2</td> <td>23.3</td> <td>22.8</td> <td>22.8</td> <td>22.9</td> </tr> <tr> <td>Raw meal Silo B/F-1</td> <td>25.6</td> <td>24.9</td> <td>26.3</td> <td>26.9</td> <td>27.2</td> <td>26.2</td> </tr> <tr> <td>Raw meal Silo B/F-2</td> <td>22.5</td> <td>22.0</td> <td>23.3</td> <td>22.9</td> <td>24.4</td> <td>23.4</td> </tr> <tr> <td>Raw meal Silo B/F-3</td> <td>25.5</td> <td>28.3</td> <td>27.7</td> <td>26.4</td> <td>25.9</td> <td>24.8</td> </tr> <tr> <td>Raw meal Silo B/F-4</td> <td>27.9</td> <td>27.6</td> <td>27.2</td> <td>28.4</td> <td>28.1</td> <td>22.8</td> </tr> </tbody> </table> <p>Interlocking facility has been provided in (Programmed Logic Control) PLC controlled computer operation of the plant in such a way that in the event of ESP tripping, kiln feed gets shut down automatically.</p>	Stack attached to	Particulate matter emission in mg/Nm <sup>3</sup>						April- 11	May- 11	June- 11	July- 11	Aug- 11	Sept- 11	Cement VRM-1 B/F	34.0	32.4	31.6	30.5	29.4	31.7	Cement VRM-2 B/F	34.9	34.6	33.6	32.6	31.5	33.7	Cement VRM-3 B/F	29.5	30.3	28.3	28.9	28.4	30.8	Kiln + VRM ESP	43.3	44.2	46.6	47.2	47.5	43.1	Cooler ESP	30.7	30.2	34.5	34.8	33.3	39.1	Cement Mill (1& 2) B/F	23.9	25.8	24.9	24.2	24.0	25.9	Cement Mill (3& 4) Hybrid filter	22.2	31.2	26.7	25.7	27.1	29.7	Coal Mill B/F	32.6	31.2	30.3	28.9	29.8	29.8	Packing Machine-1 B/F	21.1	22.6	21.8	22.1	21.8	23.1	Packing Machine-2 B/F	24.0	24	23.8	24.3	23.9	21.9	Packing Machine-3 B/F	18.2	18.9	19.3	19.0	19.2	20.3	Packing Machine-4 B/F	22.1	22.2	23.3	22.8	22.8	22.9	Raw meal Silo B/F-1	25.6	24.9	26.3	26.9	27.2	26.2	Raw meal Silo B/F-2	22.5	22.0	23.3	22.9	24.4	23.4	Raw meal Silo B/F-3	25.5	28.3	27.7	26.4	25.9	24.8	Raw meal Silo B/F-4	27.9	27.6	27.2	28.4	28.1	22.8
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ii	Ambient Air Quality including ambient noise level must not exceed the standards stipulated under EPA/State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with SPCB and report submitted to the Board quarterly and to the Ministry (Regional office at Bhubaneswar) half yearly. Continuous stack monitoring system shall be installed.	<p>a. Ambient air quality measurement is taken every month. It would be observed from the average data for the month given in the table hereunder that Ambient Air quality had remained always within the standard stipulated under EPA. (data on ambient noise level is shown in B. v under general condition)</p> <p>Table No:- A.ii.a</p> <table border="1" data-bbox="831 240 1861 515"> <thead> <tr> <th rowspan="2">Location of Sample station (Name of Building)</th> <th colspan="6">Ambient Air quality (Particulate matter ,size less than 10 µm or PM<sub>10</sub> - micro gm/m<sup>3</sup>)</th> </tr> <tr> <th>April- 11</th> <th>May- 11</th> <th>June- 11</th> <th>July- 11</th> <th>Aug- 11</th> <th>Sept- 11</th> </tr> </thead> <tbody> <tr> <td>Stores Bldg</td> <td>63.7</td> <td>69.6</td> <td>77.1</td> <td>75.1</td> <td>72.5</td> <td>73.3</td> </tr> <tr> <td>DITC Bldg</td> <td>66.9</td> <td>36.8</td> <td>71.2</td> <td>68.6</td> <td>70.9</td> <td>71.4</td> </tr> <tr> <td>Loco Gate</td> <td>65.6</td> <td>67.5</td> <td>77.4</td> <td>65.4</td> <td>69.8</td> <td>70.6</td> </tr> <tr> <td>Canteen Bldg</td> <td>62.9</td> <td>70.1</td> <td>78.4</td> <td>61.0</td> <td>62.4</td> <td>63.3</td> </tr> </tbody> </table> <p>b. Continuous stack monitoring system is installed and is in operation.</p>	Location of Sample station (Name of Building)	Ambient Air quality (Particulate matter ,size less than 10 µm or PM <sub>10</sub> - micro gm/m <sup>3</sup> )						April- 11	May- 11	June- 11	July- 11	Aug- 11	Sept- 11	Stores Bldg	63.7	69.6	77.1	75.1	72.5	73.3	DITC Bldg	66.9	36.8	71.2	68.6	70.9	71.4	Loco Gate	65.6	67.5	77.4	65.4	69.8	70.6	Canteen Bldg	62.9	70.1	78.4	61.0	62.4	63.3
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iii	The Company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. The dust collected from pollution control equipment shall be recycled back into the process. Water sprinkling arrangements shall be made to control the fugitive emissions in the raw material stockyard, unloading hoppers, and discharge gate at reclaims of silos and cement bag loading areas. Dust emission from bag filter and ESP shall not exceed 50mg/Nm <sup>3</sup> .	<p>a. Bag filters are installed suitably at different locations so as to maintain fugitive emission within prescribed limit.</p> <p>b. Water sprinkling on the road as required.</p> <p>c. We are spraying water in lime stone wagons at the time of unloading.</p> <p>d. Road sweeping machine is purchased and deployed on regular cleaning of roads both in Plant and Colony.</p>																																									
iv	The Company shall undertake measures to reduce the pollution load by converting narrow gauge track to electrified meter/broad gauge, and also to increase the rake size by adding higher capacity locomotives so that number of trips for transportation of limestone from Lanjiberna Mines to the cement plant shall not be increased.	<p>Company had constructed and operate the plant after obtaining the permission from MoEF “Consent to establish” vide its letter NoJ-11011/206/2004-IA (I) dated 21-July-2005 and OSPCB ‘Consent to operate’ from Orissa State Pollution Control Board (OPSCB) vide its two letters bearing No 37026/SPCB/BBSR-I-IND (CON) 25 and No.37024/SPCB/BBSR-I-IND (CON) 25, both dated 31.12.2005. Thereafter company has applied to MoEF and OSPCB for pollution clearance for increasing further capacity with the proposal of belt conveyor. MoEF has given letter of consent to establish on 5-April-2007 vide letter No-F.NO-J-11011/352/2005-IA II (I) for increasing clinker capacity from 1.2 mtpa to 2.9 mtpa and cement production capacity from 2.0 mtpa to 4.0 mtpa by installing machineries where in company has proposed belt conveyor in place of NGT finally based on consultants report which is summarised in subsequent paragraph and proceedings with construction, which has been commissioned.</p> <p>“The company had engaged HOLTEC to study any better eco-friendly transportation system compared to Narrow/Meter/Broad gauge track line. Belt conveyor is suitable transportation system. The Belt conveyor system has been installed in same land occupied by the existing narrow gauge track line. The design capacity of belt conveyor is 1000 tph of crushed limestone.”</p>																																									

v	The Company shall use flyash up to 35% for manufacturing of Portland Pozolana cement	We are manufacturing only Portland Slag Cement (PSC) with Blast furnace slag, which is an industrial waste generated in the course of steel manufacture. Manufacturing of Portland Pozolana cement (PPC) is being started.																																																							
vi	The company shall undertake water conservation measures by recycling of wastewater after treatment and utilization of 100% of waste heat in VRM, Coal mill and CVRMs to reduce water consumption and replacement of water-cooling machines by air-cooling machines.	<p>a. At all times, the heat requirement of VRM, Coal Mill and CVRMs is met from recoverable waste heat.</p> <p>b. Similarly wastewater after treatment is used for machines cooling, hot material and spraying inside VRM and CVRMs.</p> <p>c. The company has initiated action to ensure that as far as possible procurement of new machineries are of air-cooling system instead of water-cooled ones. One example is the installation of GRR (Air cooling machine) in place of LRR (water cooling machine) of PH fan</p> <p>d. Road sweeping machine is deployed on regular cleaning of roads both in Plant and Colony.</p>																																																							
vii	The company shall develop green belt in an area 44.39 ha. Central pollution Control Board guidelines must be followed in planning and developing green belt and selection of species etc.	<p>a. Company had constructed and operate the plant after obtaining the Environmental clearance from MoEF "Consent to establish" vide letter NoJ-11011/206/2004-IA (I) dated 21-July-2005 and 'Consent to operate' from Orissa State Pollution Control Board (OSPCB) vide its two letters bearing No 37026/SPCB/BBSR-I-IND (CON) 25 and No.37024/SPCB/BBSR-I-IND (CON) 25, both dated 31.12.2005. MoEF has asked to develop green belt in an area of 44.39ha.</p> <p>Company had constructed and operate the plant after obtaining the Environmental clearance from MoEF "Consent to establish" vide letter No-F.NO-J-11011/352/2005-IA II (I) dated 5-April-2007 and 'Consent to operate' from Orissa State Pollution Control Board (OSPCB) vide its two letters bearing No.6681/IND-I-CON-25 dated 29.04.09 and No. 15009/IND-I-CON-25 dated 19.09.09 clinker capacity 2.9 mtpa and cement production capacity 4.0 mtpa. MoEF has asked under Specific Condition with clause No xi that "Green belt shall be developed in at least 28.0 ha out of total 91.15 ha land in consultation with local DFO as per the CPCB guideline."</p> <p>We are giving hereunder a break-up of total land along with plantation.</p> <p>1) Total Cement factory area = 61.316 ha [Existing Plant area 31.242ha + Area of Line 2 Project 30.074ha]</p> <p>2) Plantation of green belt already developed = 18.385 ha</p> <p>3) Vacant area available for future green belt development = 3.501ha</p> <p>Year wise plantation &amp; plantation Plan:</p> <table border="1" data-bbox="779 1075 2004 1450"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">Year-wise plantation plan (no of trees)</th> <th colspan="4">Year-wise actual plantation done (no of trees)</th> </tr> <tr> <th>For the year</th> <th>Cumulative up to the year</th> <th>In own vacant area</th> <th>In other permitted vacant area</th> <th>Total plantation done</th> <th>Cumulative Plantation up to the year</th> </tr> </thead> <tbody> <tr> <td>2006</td> <td>9000</td> <td>9000</td> <td>1500</td> <td>10000</td> <td>11500</td> <td>11500</td> </tr> <tr> <td>2007</td> <td>9000</td> <td>18000</td> <td>1082</td> <td>4928</td> <td>6010</td> <td>17510</td> </tr> <tr> <td>2008</td> <td>9000</td> <td>27000</td> <td>3500</td> <td>5300</td> <td>8800</td> <td>26310</td> </tr> <tr> <td>2009</td> <td>9000</td> <td>36000</td> <td>7246</td> <td>2500</td> <td>9746</td> <td>36056</td> </tr> <tr> <td>2010</td> <td>9000</td> <td>45000</td> <td>9500</td> <td>2020</td> <td>11520</td> <td>47576</td> </tr> <tr> <td>2011</td> <td colspan="6">As required data is on yearly basis, So it will be furnished in the next six monthly report</td> </tr> </tbody> </table>	Year	Year-wise plantation plan (no of trees)		Year-wise actual plantation done (no of trees)				For the year	Cumulative up to the year	In own vacant area	In other permitted vacant area	Total plantation done	Cumulative Plantation up to the year	2006	9000	9000	1500	10000	11500	11500	2007	9000	18000	1082	4928	6010	17510	2008	9000	27000	3500	5300	8800	26310	2009	9000	36000	7246	2500	9746	36056	2010	9000	45000	9500	2020	11520	47576	2011	As required data is on yearly basis, So it will be furnished in the next six monthly report					
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viii	No discharge of treated effluent shall be done outside the premises and all treated effluent (STP) should be utilized for green belt development and other plant related activities.	There is no discharge of any effluent outside the premises of the Company. All treated effluent shall be utilized for green belt development and other plant related activities.
ix	The company must harvest the rainwater from the rooftops and storm water drains to recharge ground water.	<p>a. OCL has already completed one rainwater harvesting project.</p> <p>b. A Pilot project of roof top rain water-harvesting has been completed in colony under guidance of the Office of Hydrologist, Ground Water Survey &amp; Investigation Division, Sambalpur, and Government of Orissa.</p> <p>c. Recently, CGWB's official has been consulted for guidance of further implementation of rain water harvesting system.</p>

### **B. GENERAL CONDITION**

<b>Sl. No</b>	<b>Description of condition imposed by MoEF</b>	<b><u>Compliance Status</u></b>																																			
i	The Project authority must adhere to the stipulation made by Orissa State Pollution Control Board and State Government.	Company is strictly abiding to all stipulations made by OPCB and State Government.																																			
ii	No further expansion or modification of the plant should be carried out without prior approval of this Ministry.	Company is strictly abiding this condition. The company has commissioned the expansion and modernisation project after obtaining consent to establish from MoEF and consent to operate from OSPCB. Thereafter company has taken up a new project to increase production capacity further for clinker from 1.2 million tonne per annum (mtpa) to 2.9 mtpa and cement 2.0 mtpa to 4.0 mtpa by installing new machineries at Rajgangpur. The work of new plant is started after receipts of consent to establish from MoEF vide its letter F.No-J-11011/352/2005-IA II (I). On 05-April-2007 and commissioned in March, 2009.																																			
iii	At least four ambient air quality-monitoring station should be established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the Orissa State Pollution Control Board. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including Regional Office at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.	<p>a. There are 4 ambient air quality monitoring stations, which are given in table A.ii.a</p> <p>b. 6 Month data of ambient air quality is in above table A.ii.a</p> <p>c. The coal used in cement kiln is a low sulphur content coal. So SO<sub>2</sub> content is very low. Similarly the Burner used in cement kiln is a special designed (low NO<sub>x</sub>) burner, which does not generate NO<sub>x</sub> during firing. The measured data of the last month i.e., of Sept,11 are produced below</p> <table border="1" data-bbox="792 1043 1980 1362"> <thead> <tr> <th rowspan="2">Particulars</th> <th colspan="5">Sampling Locations</th> </tr> <tr> <th>Stores Building</th> <th>DITC Building</th> <th>LOCO Gate</th> <th>Near Canteen</th> <th>OCL Colony</th> </tr> </thead> <tbody> <tr> <td>Distance from Kiln (meter)</td> <td>378</td> <td>555</td> <td>321</td> <td>460</td> <td>490</td> </tr> <tr> <td>Direction From Kiln</td> <td>SE</td> <td>NE</td> <td>NW</td> <td>SW</td> <td>SW</td> </tr> <tr> <td>SO<sub>2</sub> Concentration (Micro gm/m<sup>3</sup>)</td> <td>3.6</td> <td>3.0</td> <td>2.7</td> <td>3.4</td> <td>2.8</td> </tr> <tr> <td>NO<sub>x</sub> concentration (Micro gm/m<sup>3</sup>)</td> <td>16.4</td> <td>15.8</td> <td>15.2</td> <td>13.1</td> <td>12.1</td> </tr> </tbody> </table>	Particulars	Sampling Locations					Stores Building	DITC Building	LOCO Gate	Near Canteen	OCL Colony	Distance from Kiln (meter)	378	555	321	460	490	Direction From Kiln	SE	NE	NW	SW	SW	SO <sub>2</sub> Concentration (Micro gm/m <sup>3</sup> )	3.6	3.0	2.7	3.4	2.8	NO <sub>x</sub> concentration (Micro gm/m <sup>3</sup> )	16.4	15.8	15.2	13.1	12.1
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iv	Industrial wastewater shall be properly collected, treated so as to confirm 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 should be utilized for plantation.	<p>a. Wastewater generated in the plant is treated in the effluent treatment plant (ETP) and used for process and cooling purposes as make up water in the existing cement plant. The quality of effluent water after treatment is being analysed and analysis report is given hereunder table.</p> <p>b.</p> <p>Date of sampling:- 28.09.2011</p> <table border="1" data-bbox="869 272 1693 571"> <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>8.2</td> </tr> <tr> <td>2</td> <td>Total suspended solids as CaCO<sub>3</sub> (mg/l)</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 &amp; 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 &amp; Grease - 6 mg/l.</p> <p>b. The Colony effluent is used for development of green belt.</p>	Sl.No	Parameter	Result of ETP outlet treated water	1	PH value	8.2	2	Total suspended solids as CaCO <sub>3</sub> (mg/l)	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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v	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 should confirm to the standards prescribed under Environmental (Protection) Act 1986 Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).	<p>a. Noise monitoring was carried out in four locations (Table B.v.a.1) . Data are summarised as noise level during day time (<math>L_{day}</math>) and during night time (<math>L_{night}</math>). are given here under in table B.v.a.2.</p> <p>Table B..v.a.1: Details of Ambient Noise Level Sampling Locations</p> <table border="1" data-bbox="860 874 1957 1029"> <thead> <tr> <th rowspan="2">Particulars</th> <th colspan="5">Sampling Locations</th> </tr> <tr> <th>Stores Building</th> <th>DITC Building</th> <th>LOCO Gate</th> <th>Near Canteen</th> <th>OCL Colony</th> </tr> </thead> <tbody> <tr> <td>Distance from Kiln (meter)</td> <td>378</td> <td>555</td> <td>321</td> <td>460</td> <td>490</td> </tr> <tr> <td>Direction From Kiln</td> <td>SE</td> <td>NE</td> <td>NW</td> <td>SW</td> <td>SW</td> </tr> </tbody> </table> <p>Table B.v.a.2: Ambient Noise Level..</p> <table border="1" data-bbox="860 1098 1973 1236"> <tbody> <tr> <td>Noise level ( <math>L_{day}</math> ) during day time</td> <td>71.1</td> <td>72.3</td> <td>71.1</td> <td>71.9</td> <td>51.8</td> </tr> <tr> <td>Noise level ( <math>L_{night}</math> ) during night time</td> <td>62.0</td> <td>64.6</td> <td>62.8</td> <td>61.1</td> <td>40.0</td> </tr> </tbody> </table>	Particulars	Sampling Locations					Stores Building	DITC Building	LOCO Gate	Near Canteen	OCL Colony	Distance from Kiln (meter)	378	555	321	460	490	Direction From Kiln	SE	NE	NW	SW	SW	Noise level ( $L_{day}$ ) during day time	71.1	72.3	71.1	71.9	51.8	Noise level ( $L_{night}$ ) during night time	62.0	64.6	62.8	61.1	40.0
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vi	<p>Proper housekeeping and adequate occupational health programme must be taken up. Occupational Health Surveillance programme should be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.</p>	<p>Medical check up Camps for OCL employees are being organised every year in collaboration with doctors of ESI Corporation. In the Camp, the tests conducted include Urine, Blood Sugar, Eye, Blood Group, Ear and Chest X-ray. Besides, doctors of ESI Corporation, Inspector of Factories (Medical) and doctors from Occupational Disease Centre, Kolkata also used to attend the Camp. Director, ESI Scheme, Govt. of Orissa and Regional Director, ESI Corporation, Bhubaneswar, Orissa closely monitored the programs. All facilities for conducting the programme are being provided by OCL. Health check up programme is a continuous system.</p> <p>Executives: Pre-employment health check-up of executives is compulsory and is being carried out at OCL dispensary/leading hospitals at Rourkela. The tests conducted to ascertain the health status of new recruits are history taking, physical examination (Vitals, weight, height, hearing, vision, etc.), complete blood count, FBS (Sugar), Serum Creatinine (Kidney functioning), VDRL (Venereal disease), urine, stool, chest X-ray, blood groupings, blood Urea, serum cholesterol, HIV (with the consent of the executive), ECG and review of the patient with all reports and final recommendation. Health check up report of executives / employee for the year 2010 is given here under</p> <p>Health check up report of executives / employee for the year 2010 will be furnished in the next six monthly report.</p>
vii	<p>The project proponent shall comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment / Environmental Management Plan.</p>	<p>Noted and being complied.</p>

viii	<p>A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions should be set up under control of Senior Executive.</p>	<p>There is a permanent organizational set up assigned with the task of ensuring its effective implementation. <b>OCL</b> has a well-documented system to monitor and control pollution. <b>OCL</b> has already been set up full -fledged environmental laboratory with monitoring facilities. <b>OCL</b> has a department consisting of officers from various disciplines to coordinate the activities concerned with the management and implementation of the environmental control measures of the existing plant operation. The responsibility of the existing Environmental Management Cell is presented below:</p> <p>Basically, this department undertakes monitoring of the environmental pollution levels by measuring stack emissions, ambient air quality, water and effluent quality, noise level etc., either departmentally or by external agencies wherever necessary. In case of any observation for improvement the Environmental Management Cell suggests remedial action and gets these suggestions implemented through the concerned plant authorities. The Environmental Management Cell also co-ordinates all the related activities such as collection of statistics w.r.t health of workers and population of the region, afforestation and green belt development.</p> <p><b>B. ENVIRONMENT MONITORING LAB</b></p> <p><b>OCL</b> has the following instruments/equipment at its laboratory for testing and monitoring as listed in Table B.viii.B.1</p> <p><b>Table B.viii.B.1: Environmental Monitoring Equipment at OCL</b></p> <table border="1" data-bbox="813 799 1839 1461"> <thead> <tr> <th>Sl. No</th> <th>Instrument/Equipment</th> <th>Quantity (Nos.)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Stack monitoring kit</td><td>3</td></tr> <tr><td>2</td><td>High Volume Samplers</td><td>4</td></tr> <tr><td>3</td><td>Respirable dust Sampler</td><td>7</td></tr> <tr><td>4</td><td>Personal dust Sampler</td><td>1</td></tr> <tr><td>5</td><td>Digital Temperature Indicator</td><td>2</td></tr> <tr><td>6</td><td>Pitot tube</td><td>4</td></tr> <tr><td>7</td><td>Digital Manometer</td><td>2</td></tr> <tr><td>8</td><td>Portable flue Gas Analyzers</td><td>2</td></tr> <tr><td>9</td><td>Spectrophotometer</td><td>1</td></tr> <tr><td>10</td><td>pH Meter</td><td>1</td></tr> <tr><td>11</td><td>B.O.D Incubator</td><td>1</td></tr> <tr><td>12</td><td>Sound level meter</td><td>1</td></tr> <tr><td>13</td><td>Portable CO monitor</td><td>1</td></tr> <tr><td>14</td><td>Weather monitor</td><td>1</td></tr> <tr><td>15</td><td>Oven</td><td>1</td></tr> </tbody> </table> <p>* We are in process to procure equipment for PM<sub>2.5</sub> measurement.</p> <p>For other testing and monitoring requirement as statutory requirements, <b>OCL</b> is getting the services of laboratory of external laboratory recognized by OSPCB.</p>	Sl. No	Instrument/Equipment	Quantity (Nos.)	1	Stack monitoring kit	3	2	High Volume Samplers	4	3	Respirable dust Sampler	7	4	Personal dust Sampler	1	5	Digital Temperature Indicator	2	6	Pitot tube	4	7	Digital Manometer	2	8	Portable flue Gas Analyzers	2	9	Spectrophotometer	1	10	pH Meter	1	11	B.O.D Incubator	1	12	Sound level meter	1	13	Portable CO monitor	1	14	Weather monitor	1	15	Oven	1
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**b. Monitoring Schedule**

OCL is keeping the records of pollution levels emitted from the existing operation on continuous basis as per details given in **Table B.viii.C.1**

**Table B.viii.C.1: Environmental Monitoring Schedule of OCL**

Parameter	Frequency	Conducted by	Location
<i>Ambient Air Quality around the Plant Premises</i>			
(Particulate matter ,size less than 10 µm or PM <sub>10</sub> SO <sub>x</sub> , NO <sub>x</sub> & CO	Twice in a month	OCL	Loco Gate DITC Stores building Near Canteen Store building
<i>Stack Monitoring</i>			
PM	Once in a month	OCL	All stacks
<i>Noise Level</i>			
Sound pressure level	Once in a month	OCL	AT the boundary of the plant premises & OCL Colony
<i>Waste Water</i>			
As per GSR 422 (E) for inland surface water	Once in a month	OCL	ETP

ix

The Project authority will provide separate funds for both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any purposes.

The expenses incurred on pollution control equipment is as under:

Year	Air pollution Control	Water pollution Control		Green Belt development	Peripheral development
	Cement	Cement	Common		
	Rs. (Lacs)	Rs. (Lacs)	ETP Rs. (Lacs)	Water harvesting Rs. (Lacs)	Rs. (Lacs)
Upto 1981	21.12				
Addition 1986	120.63				
Addition 1987	92.36				
Addition 1988- 89	89.55				
Addition 1989- 90	9.86	31.76			
Addition 1990- 91	11.44				
Addition 1991- 92	85.98				
Addition 1992- 93	122.46				
Addition 1993- 94	145.82				
Addition 1995- 96	-		59.41		
Addition 1997- 98	392.34				
Addition 2001- 02	0.86				
Addition 2002- 03	568.43				
Addition 2003- 04	487.43				
Addition 2004- 05	479.08				
Addition 2005- 06	1072.43				
Addition 2006- 07	29.47			12.05	
Addition 2007- 08	100.3		1.81	*6.32	4.06 11.35
Addition 2008- 09	2546.47			*0.42	8.58 126.47
Addition 2009- 10	621.62	+3.50	15.37		15.00 173.49
Addition 2010- 11	259.28		2.29		19.30 111.76
Total	7256.93	35.26	78.88	18.79	46.94 422.87

\* Pilot project of Roof top water harvesting.

+ Rain water harvesting pond.

x	<p>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.</p>	<p>The plant was commissioned in Feb'2006. We are submitting compliance status of all the conditions mentioned in your above refer letter.</p>
xi	<p>The Project Authority 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.</p>	<p>Project was commissioned during Feb'06 after receiving consent to operate from State Pollution Control Board, Orissa.</p>
xii	<p>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 State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This should be advertised within seven days from the date of issue of clearance letter at least 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 the same shall be forwarded to the Regional office.</p>	<p>The public notice was published in vernacular language (Oriya) in '<b>Samaj</b>' issue dated 26.07.2005 and in English language in '<b>New Indian Express</b>' issue dated 27.07.2005 i.e. within 7 days of issue date your letter No J-11011/206/2004-IA II (I) dated 21<sup>st</sup> July 2005.</p> <p>Copies of advertisement were given to your Regional Office and the Member Secretary of State pollution Control Board, Orissa vide our letter No-RGGO: 25/125A dated 27.07.2005.</p>

Ref.No-80212/5  
24<sup>th</sup> Nov ,2011

Additional Director  
Government of India  
Ministry of Environment and Forest  
(I.A. Division)  
Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi – 110 003

Sub: - Submission of six monthly report of expansion Project of cement plant 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:- Sundergarh in Orissa.

Ref:- Your Letter F.No.J-11011/352/2005-1A II (I) dated 5<sup>th</sup> April 2007

Dear Sir,

With reference to above letter, we are pleased to enclose herewith six monthly reports on compliance status of conditions imposed by MoEF in regard to implementation of the expansion Project of OCL INDIA LTD, Rajgangpur.

Hope your good self will find the same in order.

Thanking you

Yours sincerely  
For OCL INDIA LIMITED

**D D Atal**  
**Whole Time Director**

CC: Director (S)  
Government of India  
Ministry of Environment and Forest  
Eastern Regional Office  
A/3, Chandrasekharpur  
**BHUBANESWAR – 751 023**

Encl: As above.  
The Chairman  
State Pollution Control Board, Orissa  
Parivesh Bhavan  
A/118, Nilakanthnagar, Unit – VIII  
BHUBANESWAR – 751 023

Encl: As above.

CC: The Chairman  
Central Pollution Control Board  
Parivesh Bhavan  
CBD-cum-Office Complex  
East Arjuni Nagar  
**DELHI – 110 032**

Encl: As above.

Date : Nov 24,2011

**OCL INDIA LTD, RAJGANGPUR**

**Sub: Submission of Six monthly report on compliance status of conditions imposed by MoEF in regard to implementation of the expansion Project of OCL India Limited, Rajgangpur.**

This report of six monthly Compliance status of conditions imposed by the Ministry of Environment and Forests (MoEF), Govt. of India is submitted in terms of the instructions contained in the environment clearance Ref.No.F.No.J-11011/352/2005-1A II (I) dated 5<sup>th</sup> April 2007.

**A. SPECIAL CONDITION**

<b>Sl. No</b>	<b>Description of condition imposed by MoEF</b>	<b><u>Compliance Status</u></b>																																			
i	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>a. Stack emission measurements are taken every month. Data for period April-11 to Sept-11 (6 months) 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/Nm<sup>3</sup>.</p> <p>Table No:- A i.a</p> <table border="1" data-bbox="943 791 1977 967"> <thead> <tr> <th data-bbox="943 791 1205 858">Stack attached to</th> <th colspan="6" data-bbox="1205 791 1977 826">Particulate matter emission in mg/Nm<sup>3</sup></th> </tr> <tr> <th data-bbox="943 826 1205 858"></th> <th data-bbox="1205 826 1350 858">April- 11</th> <th data-bbox="1350 826 1473 858">May -11</th> <th data-bbox="1473 826 1597 858">June- 11</th> <th data-bbox="1597 826 1720 858">July-11</th> <th data-bbox="1720 826 1843 858">Aug-11</th> <th data-bbox="1843 826 1977 858">Sept- 11</th> </tr> </thead> <tbody> <tr> <td data-bbox="943 858 1205 890">Kiln &amp; VRM B/F</td> <td data-bbox="1205 858 1350 890">23.3</td> <td data-bbox="1350 858 1473 890"></td> <td data-bbox="1473 858 1597 890">21.0</td> <td data-bbox="1597 858 1720 890">16.5</td> <td data-bbox="1720 858 1843 890">13.7</td> <td data-bbox="1843 858 1977 890">25.8</td> </tr> <tr> <td data-bbox="943 890 1205 922">Coal Mill B/F</td> <td data-bbox="1205 890 1350 922">22.5</td> <td data-bbox="1350 890 1473 922"></td> <td data-bbox="1473 890 1597 922">20.7</td> <td data-bbox="1597 890 1720 922">19.1</td> <td data-bbox="1720 890 1843 922">19.5</td> <td data-bbox="1843 890 1977 922">15.4</td> </tr> <tr> <td data-bbox="943 922 1205 954">Cooler ESP</td> <td data-bbox="1205 922 1350 954">21.6</td> <td data-bbox="1350 922 1473 954"></td> <td data-bbox="1473 922 1597 954">18.3</td> <td data-bbox="1597 922 1720 954">22.8</td> <td data-bbox="1720 922 1843 954">20.3</td> <td data-bbox="1843 922 1977 954">18.1</td> </tr> </tbody> </table> <p data-bbox="929 1002 2004 1098">Interlocking facility has been provided in (Programmed Logic Control) PLC controlled computer operation of the plant in such a way that in the event of Bag filter of Kiln &amp; VRM tripping, kiln feed gets shut down automatically.</p>	Stack attached to	Particulate matter emission in mg/Nm <sup>3</sup>							April- 11	May -11	June- 11	July-11	Aug-11	Sept- 11	Kiln & VRM B/F	23.3		21.0	16.5	13.7	25.8	Coal Mill B/F	22.5		20.7	19.1	19.5	15.4	Cooler ESP	21.6		18.3	22.8	20.3	18.1
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Cooler ESP	21.6		18.3	22.8	20.3	18.1																															
ii	Continuous on-line 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 data shall be submitted to the OSPCB and CPCB regularly.	Continuous stack monitoring system has been installed and is in operation.																																			

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. Ambient air quality measurement is taken every month. It would be observed from the data given in the table hereunder that Ambient Air quality had remained always within the standard stipulated under EPA. (data on ambient noise level is shown in B. vi under general condition)</p> <p>Table No:- A.ii.a</p> <table border="1" data-bbox="965 272 1973 547"> <thead> <tr> <th rowspan="2">Location of Sample station (Name of Building)</th> <th colspan="6">Ambient Air quality (micro gm/m<sup>3</sup>)</th> </tr> <tr> <th>April- 11</th> <th>May -11</th> <th>June- 11</th> <th>July-11</th> <th>Aug-11</th> <th>Sept- 11</th> </tr> </thead> <tbody> <tr> <td>North direction</td> <td>69.5</td> <td></td> <td>70.5</td> <td>65.6</td> <td>64.7</td> <td>65.7</td> </tr> <tr> <td>South direction</td> <td>59.0</td> <td></td> <td>81.9</td> <td>71.1</td> <td>70.0</td> <td>70.2</td> </tr> <tr> <td>East direction</td> <td>61.3</td> <td></td> <td>76.9</td> <td>70.3</td> <td>73.7</td> <td>74.2</td> </tr> <tr> <td>West direction</td> <td>66.9</td> <td></td> <td>71.2</td> <td>68.6</td> <td>70.9</td> <td>71.4</td> </tr> </tbody> </table> <p>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>	Location of Sample station (Name of Building)	Ambient Air quality (micro gm/m <sup>3</sup> )						April- 11	May -11	June- 11	July-11	Aug-11	Sept- 11	North direction	69.5		70.5	65.6	64.7	65.7	South direction	59.0		81.9	71.1	70.0	70.2	East direction	61.3		76.9	70.3	73.7	74.2	West direction	66.9		71.2	68.6	70.9	71.4
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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 &amp; 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/Nm<sup>3</sup>. 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>	<p>ESP, Cyclones &amp; Bag filters are installed at respective places. Construction of closed shed for Raw material storage is in completion stage. Clinker is being stored in clinker silo.</p>																																									
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 &amp; /or black -topping or paving with hard solid reject Refractory bricks is in progress. Water spray is being done as per requirement to control the fugitive dust.</p>																																									

vi	Total water requirement from the Nakti nala and ground water source shall not exceed 5,788 m <sup>3</sup> /d including 785 m <sup>3</sup> /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>1. It is being ensured that the water consumption shall not exceed the quantity 5,788 m<sup>3</sup>/d including 785 m<sup>3</sup> /d from the Nakti nala and ground water source respectively. We are pleased to inform you that we have received the approval from the Additional Secretary, Govt. of Orissa, Dept. of water resources vide their letter no. 27283 / WR dated 29.10.10 for our drawl of additional 3.17 cusecs of water from River Sankh.</p> <p>2. STP has been commissioned. Treated water of STP is being used for green belt development.</p>
vii	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.	Dust collected from pollution control devices is recycled and reutilized. Used oil & batteries are being stored at earmarked area and given to the authorized recyclers / re processors 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.	A pilot project of roof top water harvesting project has been completed. 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. Central Ground Water Board official is consulted.
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 Line-1.
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.	Shall be complied with as far as possible.

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.	New plant is located very near to the existing plant. However company has applied to State Forest Department and is under process. We shall comply the recommendation/ suggestions of the SFD.
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**B. GENERAL CONDITION**

Sl. No	Description of condition imposed by MoEF	<u>Compliance Status</u>																			
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 guideline of OSPCB.																			
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 <sub>2</sub> and NO <sub>x</sub> 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 table A.ii.a iii under specific condition )</p> <p>b. The coal used in cement kiln is a low sulphur content coal. So SO<sub>2</sub> 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 of the last month i.e. of Sept,11 are produced below</p> <table border="1" data-bbox="920 903 2031 1098"> <thead> <tr> <th data-bbox="920 903 1335 935" rowspan="2">Particulars</th> <th colspan="4" data-bbox="1335 903 2031 935"><u>Sampling Locations</u></th> </tr> <tr> <th data-bbox="1335 935 1514 1002">North direction</th> <th data-bbox="1514 935 1682 1002">South direction</th> <th data-bbox="1682 935 1861 1002">East direction</th> <th data-bbox="1861 935 2031 1002">West direction</th> </tr> </thead> <tbody> <tr> <td data-bbox="920 1002 1335 1046">SO<sub>2</sub> Concentration (Microgram/m<sup>3</sup>)</td> <td data-bbox="1335 1002 1514 1046">2.8</td> <td data-bbox="1514 1002 1682 1046">3.1</td> <td data-bbox="1682 1002 1861 1046">2.8</td> <td data-bbox="1861 1002 2031 1046">3.0</td> </tr> <tr> <td data-bbox="920 1046 1335 1098">NO<sub>x</sub> concentration (Microgram/m<sup>3</sup>)</td> <td data-bbox="1335 1046 1514 1098">16.1</td> <td data-bbox="1514 1046 1682 1098">14.9</td> <td data-bbox="1682 1046 1861 1098">16.1</td> <td data-bbox="1861 1046 2031 1098">15.8</td> </tr> </tbody> </table>	Particulars	<u>Sampling Locations</u>				North direction	South direction	East direction	West direction	SO <sub>2</sub> Concentration (Microgram/m <sup>3</sup> )	2.8	3.1	2.8	3.0	NO <sub>x</sub> concentration (Microgram/m <sup>3</sup> )	16.1	14.9	16.1	15.8
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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.	Shall be complied with.																			

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 was carried out in four locations (Table B.v.a.1). Data are summarised as noise level during day time (<math>L_{day}</math>) and during night time (<math>L_{night}</math>). are given below</p> <p>Table B..v.a.1: Details of Ambient Noise Level Sampling Locations</p> <table border="1"> <thead> <tr> <th rowspan="2">Particulars</th> <th colspan="4">Sampling Locations</th> </tr> <tr> <th>North direction</th> <th>South direction</th> <th>East direction</th> <th>West direction</th> </tr> </thead> <tbody> <tr> <td>Noise level (<math>L_{day}</math>) during day time</td> <td>71.8</td> <td>71.2</td> <td>69.7</td> <td>72.1</td> </tr> <tr> <td>Noise level (<math>L_{night}</math>) during night time</td> <td>62.8</td> <td>63.6</td> <td>62.3</td> <td>57.1</td> </tr> </tbody> </table>	Particulars	Sampling Locations				North direction	South direction	East direction	West direction	Noise level ( $L_{day}$ ) during day time	71.8	71.2	69.7	72.1	Noise level ( $L_{night}$ ) during night time	62.8	63.6	62.3	57.1
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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.	Noted.																			
ix	The Regional Office of this Ministry at Bhubaneshwar /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.	We are submitting six monthly compliance report of all the condition mentioned in your above letter.																			

x	<p>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 <a href="http://envfor.nic.in">http://envfor.nic.in</a>. 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.</p>	<p>The public notice was published in vernacular language (Oriya) in '<b>Samaj</b>' issue dated 11.04.2007 and in English language in '<b>New Indian Express</b>' issue dated 11.04.2007 i.e. within 7 days of issue date your letter No J-11011/352/2005-IA II (I) dated 5<sup>th</sup> April 2007.</p> <p>Copies of advertisement were given to your Regional Office and the Member Secretary of State pollution Control Board, Orissa vide our letter No-RGGO: 25/125A dated 12.04.2007.</p>
xi	<p>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.</p>	<p>Land development work is started in April - 2007 after receipt of MoEF clearance vide letter No J-11011/352/2005-IA II (I) dated 5<sup>th</sup> April 2007. Project has been commissioned in March ,2009</p>
xii	<p>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.</p>	<p>Six monthly reports are being submitted regularly.</p>

OCL INDIA LTD, RAJGANGPUR

**Sub: Submission of Six monthly report on compliance status of conditions imposed by MoEF in regard to implementation of the Expansion of Lanjiberna Limestone & Dolomite Mining Project of M/s OCL India Limited located in Village(s) Alanda, Bihabandh, Jhagarpur, Kesarmal, Raiberna, Katang, Dhauradha, Lanjiberna and Kukuda, Tehsil Rajgangpur, District Sundergarh, Odisha for the period from 01.04.2011 to 30.09.2011.**

This report of six monthly Compliance status of conditions imposed by the Ministry of Environment and Forests (MoEF), Govt. of India is submitted in terms of the instructions contained in the environment clearance letter No J-11015/372/2007-IA.II (M) dated 28<sup>th</sup> April 2010.

**A. SPECIFIC CONDITIONS:**

Sl.No.	CONDITIONS IMPOSED BY MoEF	COMPLIANCE STATUS
(i)	The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.	Consent to Operate has been obtained from the State Pollution Control Board, Odisha vide letter no.15441 dtd.16.09.2011 which is valid up to 31.03.2012 and noted for compliance. Further, renewal of consent to operate has been applied vide our letter no RGCF:80212/2 dt 28.02.2011 for the period up to 31.03.2015 and under process of renewal up to 31.03.2015.
(ii)	The project proponent shall obtain fresh forestry clearance for diversion of 62.39ha of forestland for renewal of mine lease under Section-2 of the Forest (Conservation) Act, 1980. Environmental clearance is subject to grant of forestry clearance.	Renewal of forestry clearance submitted to the State Forest Deptt.on 26.02.2009 . MoEF had granted temporary working permission. Initially, State forest department had issued the order vide their letter no No 2889 4F/Misc dated 21.05.2010 which has been expired on 20.05.2011. Final approval of Renewal Forestry clearance is under progress.
(iii)	The project proponent shall compensate and rehabilitate the land oustees and land losers/affected people, if any due to mining project as per the National Policy on Resettlement and Rehabilitation of project Affected Families (NPRR).	This project does not involve displacement or dislocation of people.
(iv)	The environmental clearance is subject to approval of the State Landuse Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.	Not applicable
(v)	The project proponent shall develop fodder plots in the non-mineralised area in lieu of use of grazing land.	Plantation has been taken up over an area of 94.39 ha in non mineralized area and serve for the purpose. Besides, It has been planned for grass plantation for dump stabilization and will also serve as fodder plots.
(vi)	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	There is no top soil in the mines .The pocket clay & morum occurring as small isolated pockets and also in bedding plane gets mixed up with small quantity stone chips during blasting are spread over on dumps for plantation. The same will be sprayed over on top of reclamation area at the finishing stage and plantation will be carried out.
(vii)	The waste generated during the mining operations shall be concurrently used for backfilling. The existing waste dumps shall be stabilized by plantation. The maximum height of the waste dumps shall not exceed 24m. Proper terracing of the waste dumps shall be carried out and the overall slope of the dumps shall be maintained to 28°. The waste dumps shall be scientifically vegetated with suitable native species to prevent	<b>Reclamation of Q.No.4_5</b> Out of the present quarry area of 38.28 hectares, the area in between grid 5000N-5400N and 4100 E-4500 E measuring 13.60 hectares is available for reclamation. So far an area measuring 10.34 hectares has been backfilled and the balance 3.26 ha. of land will be backfilled in the next 5 years up to the surface level (RL 275 m). Thereafter, one stage of 15 m above GL will be added up to to RL 290 m. It

erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dumps. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.

is proposed to carry out dumping during 2015-2030 in the same reclamation area along the adjoining land in two stages at an average height of 9m (i.e RL of 299m) The balance 24.68 ha in between grid 4500 E to 5400 E will be exhausted during the year 2030 or earlier. This area will be taken up for reclamation accordingly.

**Reclamation of Q.No.1\_3 & Q.No.2\_6**

The reserves have been computed up to RL166 m, but continuity of limestone to further depth was seen in few bore holes beyond RL 166m. Therefore, after achieving the envisaged depth, feasibility of reclamation of the pit will be reviewed and action plan will be prepared accordingly with approval of the competent authorities.

There is no external dumping of waste material since 1998.

There are twelve dumps in total i.e., 3 N to 8 N on the northern side of the quarry and 1W on the western side of the quarry and old stabilized dumps (1S to 5S) on the southern side where plantation has already been carried out. All the existing dumps i.e. 3N to 8 N and 1W have been suitably terraced, and raised to a height of 10-15 m in each step to keep the slope stability. Maximum height in one dump 5N has been attained to 23 m in three stage. All the above waste dumps are non active and dump nos partly 3N & 4N, and 6N will be rehandled for expansion of pit limit to facilitate working up to the envisaged level of 99m from the ground level and rest of the dumps will be taken up for plantation in a phased manner after making it suitable for plantation as per the approved mining plan. Fresh dumping will be done with the extension of reclamation area in Q-4\_5.

Dump No.	Dump Name	Maximum Dump Height (m)	Benches	Area (ha)	Remarks
1	External dump no. 8	10+9	2	2.77	Inoperative since 1998 Garland drain provided
2	External dump no. 7N	10+3	2	3.3	Inoperative since 1998 Garland drain provided
3	External dump No 6N	10+2	2	4.39	Inoperative since 1998 Garland drain provided
4	External dump No 5N	10+10+3	3	9.42	Plantation is on progress Garland drain provided

	5	External dump no. 3N & 4N	10+8	2	5.95	Inoperative since 1998 Garland drain provided	
	6	External dump no. 1W & 1S	10+7	2	13.48	1W in operative since 1998 & 1S stabilised and covered under plantation	
	7	External dump No 2S	10	1	0.2	Inoperative prior to 1970 and stabilised and covered under plantation	
	8	External dump No 3S	10	1	0.72	Inoperative prior to 1970 and stabilised and covered under plantation	
	9	External dump No 4S	10	1	0.53	Inoperative prior to 1970 and stabilised and covered under plantation	
	10	External dump no. 5S	10	1	0.09	Inoperative prior to 1970 and stabilised and covered under plantation	
	11	Unnamed Old Dump 1	4	1	6.95	Inoperative prior to 1970 and stabilised and covered under plantation	
	12	Unnamed Old Dump 2	4	1	4.01	Inoperative prior to 1970 and stabilised and covered under plantation	
		<b>TOTAL</b>			<b>51.81</b>		
	<p>Plantation is being carried out on inactive dumps &amp; on its slopes to check soil erosion as per approved Mining Plan. Efforts will be there to stabilise the dumps.</p> <p>Monitoring and management of rehabilitated areas will continue until the vegetation becomes self sustained.</p> <p>Compliance status shall be submitted regularly to the Ministry Environment and Forest and also to its Regional office, Bhubaneswar on six monthly basis.</p>						
	(viii)	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working and waste dumps to prevent run off of water		Garland drains have already been provided in the mine area. They meet the criteria indicated.			

	<p>and flow of sediments directly into the agricultural fields, the Sankha River, the Dolki Nallah, the Jharia Nallah, the Nakti Jhor and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.</p> <p>Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and waste dumps to prevent run off of water and flow of sediments directly into the agricultural fields, the Sankha River, the Dolki Nallah, the Jharia Nallah, the Nakti Jhor and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Retaining walls and garland drains have also been provided along external dumps. Siltation ponds and a settling tank for mine discharge have been provided.</p> <p>The drain and the settling tanks are regularly de silted before onset of monsoon.</p>
(ix)	Dimension of the retaining wall at the toe of the waste dumps and the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	Adequate dimension of the retaining wall at the toe of the waste dumps have been provided.
(x)	The void left unfilled in an area of 125.12ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.	<p>Noted for compliance.</p> <p>Action will be taken as per approved Progressive Mines Closure Plan. The void area of 125.12ha left unfilled will be converted to water body and action will be taken in 5 years advance before Mine Closure.</p>
(xi)	Plantation shall be raised in an area of 185.83ha including a 7.5m wide green belt by planting the native species in consultation with the local DFO/Agriculture Department in the safety zone around the mining lease, waste dumps, mine benches, around the water body, along the roads etc. The density of the trees should be around 2500 plants per hectare.	<p>As on date, 97.29 hectares area has been covered with plantation. Total 2,81,764 nos of trees have been planted and the plant species like Teak, Shisham, Chakunda, Debdaru, Mango etc have been used till 2011.12. Survival rate is 67%</p> <p>Re-plantation is undertaken, where the survival rates are low. The balance area out of 185.83ha including 7.5m wide green belt area, will be afforested in a phased manner as advised. It has been planned to plant @ 8000 trees/year. Plantation will be continued along the roads, dumpsite, all around the ML area, magazine etc and in other areas wherever possible by planting native plants in consultation with local DFO.</p> <p>Care will be taken to ensure density of 2500 trees/ hectare as advised.</p>
(xii)	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as haul road, loading and unloading point and all transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<p>Crushing plant is provided with high efficiency bag filters.</p> <p>Water sprinkling is regularly done on limestone receiving hopper, conveyor belt, and on haulage roads, blasted muck pile as well as in crusher area to abate fugitive emissions. Further permanent water sprinkling system has been installed along the haulage road.</p> <p>Ambient Air Quality meet the CPCB norms.</p>
(xiii)	The project authority should implement suitable conservation measures	Presently water is stored in non active quarries are acting as conservation of

	to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	water and also for ground water recharging.
(xiv)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	Regular monitoring of ground water level is measured from the existing wells and quality analysis is also being carried out. Data thus collected are maintained. Quality parameters are all within norms as prescribed limits.  Reports are submitted regularly to the authorities  Presently water is stored in non active quarries are acting as ground water recharging. Further course of action will be taken in case of depletion of water table observed due to mining operation.
(xv)	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of groundwater required for the project.	Permission has been obtained for withdrawal of 520 m <sup>3</sup> mine water and 30m <sup>3</sup> of well water ie total 550m <sup>3</sup> /day from the CGWA.
(xvi)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Implementation of artificial recharge measures/rain water harvesting measures for augmenting the ground water resources of the area will be undertaken as per Hydrogeological investigation and in consultation with Regional Director, Central Ground Water Board.
(xvii)	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Action has already been taken for regular monitoring of data. Preventive maintenance of diesel driven equipments are being carried out as per OEM's recommendations. Due care will be taken in case of mineral transportation outside the Mine lease area through covered trucks and shall not be overloaded.
(xviii)	Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Blasting is done only during day time with proper evacuation plan. Controlled blasting technology is being adopted Charging pattern are followed as recommended by CIMFR Dhanbad to restrict the ground vibration, fly rock & sound within safe limit. Use of NONEL and multi-delay detonators in a hole is practiced to reduce noise, ground vibration, back break, fly rock within the safe limit.
(ixx)	Drills shall either be operated with the dust extractors or equipped with water injection system.	Eco friendly, Hydraulic drills attached with efficient dust collection system have been deployed.
(xx)	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Crushing plant has been provided with bag filter. Filter bags are periodically cleaned/ changed. Fugitive dust emission levels are being periodically monitored and recorded properly.

(xxi)	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	There is one small residential colony for 45 families within the lease and 119 families outside the lease. Presently, total occupants are few as all the employees have been shifted to township of cement plant located at a distance of 18 KM from the mines by road. Sewage water from the colony is being discharged to septic tank and soakpit. Workshop effluent is sent to Oil & Grease separation pit before reuse. Mine sump water pass through settling tank.
(xxii)	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Being complied with. Each workman undergoes initial/periodical medical examination as per rules. No such disease has been detected as occupational disease.
(xxiii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Project work has already been completed. However for any construction, most of the labours was engaged from the local villages. For necessary employment of outside labours, existing vacant housing colony was utilised as most of the employees have been provided quarters in cement factory colony.
(xxiv)	The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM <sub>10</sub> ) and NO <sub>x</sub> in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically . Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regard for its compliance.	The critical parameter as RSPM (Particulate matter with size less than 10micron ie PM <sub>10</sub> ) and NO <sub>x</sub> in the ambient air is being monitored at four location in the core zone and two in buffer zone regularly. Peak particle velocity from the nearest habitation and also at 300m distance has been studied by CIMFR in past. Recently we entrusted the jobs to study by CIMFR for monitoring. Reports are well within limits .Periodical monitoring will be conducted. Further quality of discharged water are being monitored periodically including [(TDS, DO, PH and Total Suspended Solids (TSS))] Monitored data shall be uploaded on the website of the company.
(xxv)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Shall be complied with before 5 years from the Mine Closure
(xxvi)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	Shall be complied with

#### B. GENERAL CONDITIONS:

Sl.No.	CONDITIONS IMPOSED BY MoEF	COMPLIANCE STATUS
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Shall be complied with
(ii)	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Shall be complied with

(iii)	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department.	Shall be complied with
(iv)	Atleast four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM <sub>10</sub> ), SO <sub>2</sub> and NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Ambient Air Quality RSPM (Particulate matter with size less than 10micron i.e., PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> and CO is being monitored at four location in the core zone & two in the buffer zone regularly as per CPCB norms. Monitoring stations have been set up in consultation with OSPCB.
(v)	Data on ambient air quality [(RSPM(Particulate matter with size less than 10micron i.e., PM <sub>10</sub> ), SO <sub>2</sub> and NO <sub>x</sub> )] should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board once in six months.	The reports are being submitted to the Orissa State Pollution Control Board on monthly basis and to the Ministry on half-yearly basis
(vi)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Hydraulic drills attached with efficient dust collection system have been deployed. Latest blasting technology is being adopted. Water sprinkling is being done on haul roads, quarry faces, limestone receiving hopper, conveyor belt etc. Limestone crushing plant has been provided with bag filter. Filter bags are periodically cleaned/ changed. Fugitive dust emission levels are being periodically monitored and recorded properly. Permanent water sprinkling systems along the haul roads have been installed along the main haul road.
(vii)	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	To control noise levels below 85 dB(A), latest blasting technology is being adopted. Drill bits are being timely sharpened. Preventive maintenance of diesel driven quarry equipment is being done as per OEM's recommendations. Workers engaged in blasting & drilling operations and in operating HEMM have been provided with ear plugs/ muffs
(viii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, 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. Oil and grease trap should be installed before discharge of workshop effluent	Wastewater from garage and workshop are carried to oil separation system (oil & grease trap) and the water is recycled. There is no discharge from the workshop. Water discharged from the quarry pits passes through long drainage and discharge to settling tanks. Thereafter, the water is allowed to discharge to the nearby agricultural land for ultimate usage by the tenants for cultivation purpose as per advise of District Administration. The quality of water is regularly monitored from approved laboratories and is found well within the prescribed norms.
(ix)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be	Being complied with. Workers have been provided with dust mask. Basic & vocational training is being imparted as per schedule under VT Rules. Being complied with. Each workman undergoes initial/periodical medical examination as per rules. No such disease has been detected as occupational

	undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	disease.
(x)	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Environmental management Cell has been set up and functioning.
(xi)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.	Shall be complied with. The amount spent on EMP implementation during 2011-12 up to 30 <sup>th</sup> Sept.2011 is Rs.0.35 crore.
(xii)	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Not applicable being an expansion of the existing mine
(xiii)	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Noted
(xiv)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.	The reports are being submitted to the Odisha State Pollution Control Board on monthly basis and to the Ministry on half-yearly basis A copy of last report for the period Apr.-11 to Sept.-11 are enclosed as Annexure-1  The data will be uploaded in the website and will be updated regularly.
(xv)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied with.
(xvi)	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Topsider's Office for 30 days.	
(xvii)	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of	Shall be complied with

	compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubneswar by e-mail.	
8	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted
9	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Noted
10.	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made thereunder and also any other orders passed by the Honorable Supreme Court of India/ High Court of Orissa and any other Court of Law relating to the subject matter.	Noted
11	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	Noted



**SIX MONTHLY COMPLIANCE REPORT ON  
ENVIRONMENT CLEARANCE OF (2X27 MW)  
CAPTIVE POWER PLANT**

**OF**

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

**Compliance status of Environmental Clearance Conditions of (2x27 MW)  
Captive Power Plant Project of OCL India Limited, Rajgangpur, Odisha**

SL.No.	Conditions stipulated in Environmental Clearance	Present compliance status
i	<p>The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution ,Water pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by him in form-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.</p>	<p>Following Pollution control systems have been installed for prevention ,control of pollution and mitigation of Air, Water ,Noise &amp; Land pollution including solid waste management -</p> <p><b><u>Air Pollution Control</u></b></p> <ul style="list-style-type: none"> <li>• One no. ESP with six fields has been installed and trial run is taken for one boiler. Installation of other one boiler &amp; ESP is under progress. Photo of the same is enclosed as <b>annexure-1</b>.</li> <li>• Ash conveying system to control fugitive dust</li> <li>• Ash storage silos to control fugitive dust</li> <li>• Pneumatic ash transportation system to control fugitive dust</li> <li>• Conveyor belt covering arrangement to control fugitive dust</li> <li>• 8 nos bag filters are installed in Coal handling transfer points.</li> <li>• 4 nos. bag filters are installed Photos of the same are enclosed as <b>Annexure-1</b>.</li> </ul> <p><b><u>Water Pollution Control</u></b></p> <ul style="list-style-type: none"> <li>• Commissioning of Sewage Treatment Plant (STP) is on final stage &amp; order of Effluent Treatment Plant (ETP) is in final stage. <b>Details of the same are already provided in the first six monthly reports as Annexure-1(c) &amp; 1(d)</b>.</li> </ul> <p><b><u>Noise Pollution Control</u></b></p> <ul style="list-style-type: none"> <li>• Compressor, TG area etc, are being acoustically sealed to prevent noise pollution.</li> <li>• In steam vent line silencers are provided.</li> <li>• Fan and seal blower silencers arrangement made.</li> </ul> <p><b><u>Solid Waste Management</u></b></p> <ul style="list-style-type: none"> <li>• Sludge from STP shall be used as manure for green belt development.</li> <li>• Sludge from ETP shall be disposed as hazardous waste.</li> </ul> <p>Solid waste generated during operation shall be utilized as raw material for cement production which will be transported pneumatically from CPP to</p>

		storage silo of the existing cement plant. <b>Details of pneumatic conveying system are already provided in the first six monthly reports as Annexure-1(b).</b> This has also been reported in the Final EIA & EMP. <b>However, details of pollution control equipments are already provided in the first six monthly reports as Annexure-1(e)</b>
ii	The applicant will take necessary steps for socio-economic development of the people of the area on need based assessment for providing employment education, health care, drinking water and sanitation, road and communication facilities etc, after a detailed primary socio economic survey of the core zone.	A detailed socio-economic survey has already been done. As per the findings in the report, actions are being taken. <b>Copy of the same is already provided in the first six monthly reports as Annexure -2.</b>
iii	The applicant will comply with the points, concerns and issued raised by the people during public hearing on 29 <sup>th</sup> May 2009 in accordance with the commitments make by him thereon.	<b>A detailed compliance report in this regard is already provided in the first six monthly reports as Annexure -3.</b>
iv	The applicant will take statutory clearance / approval / permissions from the concerned authorities in respect of his project as and when required.	We have already obtained some statutory / approval / permissions from the concerned authorities for our CCP project like say, Consent to Establish, permission for operation of CPP from OSPCB, Water permission from CGWA and others are in process. <b>Trial run has been taken for one boiler. Photo copies of the same are already provided in the first six monthly reports as Annexure- 4(a) &amp; 4(b) respectively.</b>
v	For post environmental clearance monitoring , the applicant will submit half yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance to the State Environmental Impact Authority (SEIAA/), Orissa on 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year.	The half yearly compliance report is being submitted accordingly in terms of the stipulated conditions of the Environmental Clearance.
vi	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate matter emission does not exceed 50 mg/Nm <sup>3</sup> .	One no. high efficiency Electrostatic Precipitator (ESP) with six field is installed and stack emission is achieved below 50 mg/Nm <sup>3</sup> during trial run. Installation of other ESP & boiler is under progress. <b>Details of ESPs are already provided in the first six monthly reports as Annexure-1(a).</b>
vii	The proponent may use bottom ash as a supplement for the raw material for cement production with approved technology confirming to the relevant standard specification.	We will make use of the bottom ash as a supplement to the raw material for our cement production only after examining the factual technological confirmation to the standard specification, which could be ascertainable only after regular operation of CPP and consequent to generation of bottom ash.

viii	The unit shall be allowed to use washery rejects as raw material having <60% ash content.	We shall accordingly make use of the Washery rejects as raw material having < 60% ash content.
ix	The proponent shall treat the flue gas through Flue Gas De-sulfurisation (FGD), if SO <sub>2</sub> emission level exceeds the prescribed norm.	We shall be taking up treatment of flue gas accordingly, in the event of the SO <sub>2</sub> emission having exceeded the prescribed norm.
x	No ground water shall be extracted for the project work at any stage.	Noted for compliance
xi	Adequate dust extraction system such as cyclones / bag filters and water spray system in dust areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Adequate dust extraction systems are installed as mentioned below- i) 8 nos of bag filters in coal handling transfer Points to control fugitive dust. ii) 4 nos of bag filters in flyash silo areas to control fugitive dust. iii) Pneumatic transportation system from CPP to Cement plant to eliminate fugitive dust emission in ash handling is under progress. <b>Details of the same are already provided in the first six monthly reports as Annexure-1(b).</b>
xii	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilized shall be ensured as per fly ash notification of MoEF, Govt. of India. Unutilized fly ash and bottom ash shall be stored in the ash pond separately through high concentration slurry disposal method. Mercury levels along with other heavy metals (Pb, Cr, As etc.) should be monitored in the fly ash / bottom ash, lechates and effluents emanating from the ash pond.	100% Fly Ash utilization in our cement production is ensured subject to the technological support, as stated above. Any surplus from the system shall be stored in fly ash silo and compartment silo of the cement plant, duly protected.
xiii	The ash pond should be constructed with impervious lining and ash pond embankment should be stone pitched.	Storing of fly ash will be done in the fly ash silos and compartment silo of the cement plant. However, installation of the dry ash with pneumatic conveying system is considered in this project. <b>Details are already provided in the first six monthly reports as Annexure-1(b).</b>
xiv	The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary. Arrangements shall be made so that effluents and storm water do not get mixed.	We will ensure 'zero' discharge by re-circulating and reusing the treated water through ETP. <b>Details of ETP is already provided in the six monthly reports as Annexure-1(c).</b>
xv	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt / plantation.	Commissioning of Sewage Treatment Plant (STP) is on final stage. Treated sewage shall be used for greenbelt development.

xvi	Rainwater harvesting should be adopted. Central Groundwater Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished to the SEIAA, Orissa.	We have already complied with the required system accordingly. Central Groundwater Board has been consulted for the same. Status of the same is enclosed as <b>Annexure-5</b> .
xvii	Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires in coal yard, especially during summer season. Details of these measures to be taken along with location plant layout shall be submitted to the SEIAA, Orissa.	We have taken all required safety measures in our a) Plant area like providing fire extinguishers, fire alarm system provision in control room and other associated areas. b) Coal yard to extinguish spontaneous fires, <b>a lay out plan of which is already provided in the first six monthly reports as Annexure -6.</b>
xviii	Storage facilities for auxiliary liquid fuel such as LDO and / HFO / LSHS shall be made in the plant area where risk is minimum. On site and off site Disaster Management Plans shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required if any, shall be incorporated in the Disaster Management Plan (DMP). Sulfur content in the liquid fuel will not exceed 0.5%.	This will be strictly complied with, as specified and also in terms of the guidelines under the Explosives Rules, 2008.
xix	Regular monitoring of ground water in and around the ash pond shall be carried out, records maintained and half yearly reports shall be furnished to the SEIAA, Orissa.	This may not be applicable to us in terms of the fact that we are to store the fly ash in the fly ash silo and compartment silo of our cement plant, as reported above.
xx	A Green belt of adequate width and density preferably with local species along the periphery of the plant & alongside roads etc shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under permanent green belt throughout the year & for this purpose they may engage professionals in this field for creation and maintenance of the green belt. An action plan for this purpose shall be prepared accordingly and submitted to the SEIAA, Orissa.	Green belt area is measured to be 33 %, however we have started developing more green belt in the earmarked area. <b>Year wise plantation details including plantation for the year 2011 is already provided in the first six monthly reports as Annexure-7.</b>
xxi	First aid and sanitation arrangements shall be made for the drives and other contract workers during construction phase.	First aid and sanitation arrangements are being provided.
xxii	Noise levels emanating from turbines and air compressors shall be limited to 75 dB(A). For people working in the high noise area, requisite personal protective equipments like earplugs / ear muffs etc shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including	Noise level is maintained as per norm during trial run of one boiler. Personal Protective Equipments (PPEs) with respect to noisy area are provided and use of PPEs is being ensured by the concerned people. Necessary test, as stipulated, shall be conducted in regular interval for the persons working in noisy area.

	shifting to non noisy / less noisy areas.	
xxiii	Regular monitoring of ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , RSPM (PM <sub>10</sub> & PM <sub>2.5</sub> ) etc. shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB, Orissa.	Regular monitoring of SO <sub>2</sub> , NO <sub>x</sub> RSPM etc is being carried out as per guideline of SPCB. Monitoring results for the period from April,11 to Sept,11 are enclosed as <b>Annexure-8</b> . However, We would ensure its strict compliance in consultation with OSPCB
xxiv	Provision shall be made for housing of construction labours within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	This has been taken care.
xxv	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environment cell has been formed for implementation of environmental safeguards. <b>A detailed organization chart of the same is already provided in the first six monthly reports as Annexure-9.</b>
xxvi	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities.	Being complied with accordingly.
xxvii	Separate fund shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported.	Earmarked funds have since been created and we will ensure the same for not being diverted to some other purpose. <b>Details of the same is already provided in the first six monthly reports as Annexure-10.</b>
xxviii	The need of the local people should be appropriately addresses in the CSR activities to be undertaken by the project proponent in the area. An action plan in this regard should be prepared and submitted to SEIAA, Orissa.	We have already undertaken quite a good no. of developmental work under CSR and some are yet in offing to address the needs of the people dwelling in the vicinity, as also has been reported above as Socio-Economic Survey in <b>Annexure-2 which are already provided in the first six monthly reports. However, developments work with fund allocation under CSR for the year 2011-12 shall be submitted in the next six monthly reports.</b>
xxix	The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract under the provisions of Environmental Protection (EP) Act, 1986.	We take a note of it.