

## MOEF COMPLIANCE REPORT (NOV-2016)

<b>Name &amp; Location of the Project</b>	: Integrated Cement Project -Cement Plant (2.5 MTPA) Captive Power Plant (40.0MW), DG Set (2.0MW) and Bhatkotri Limestone Mines (3.75 MTPA & Area - 740.93 ha.), & Expansion of Cement Production capacity from 2.5 MTPA to 3.25 MTPA At Near Villages: Bhatkotri, Lasrawan, Phalwa, and Rasulpura, Tehsil: Nimbahera, District: Chittorgarh (Raj.)-312 601 by M/s. Wonder Cement Limited,
<b>Environmental Clearance Letter No.</b>	: J-11011/506/2007-IA. II (I) Dated 11 <sup>th</sup> /12 <sup>th</sup> June, 2008,
<b>Env. Clearance Corrigendum Letter No.</b>	: J-11011/506/2007-IA. II (I) Dated 24 <sup>th</sup> September, 2008, and
<b>Revised Environmental Clearance Letter No.</b>	: J-11011/506/2007-IA. II (I) Dated 04 <sup>th</sup> January, 2011.
<b>Expansion of Cement Capacity from 2.5 MTPA to 3.25MTPA Environmental Clearance Letter No.</b>	: J-11011/437/2011-IA. II (I) Dated 19 <sup>th</sup> June 2012
<b>Period of the Compliance Report</b>	: Apr-16 to Sept-16

**Point wise reply of the Environmental Clearance Letter No.: J-11011/506/2007-IA. II (I) dated 11<sup>th</sup>/12<sup>th</sup>June, 2008 and corrigendum dated 24Sep 2008 & 4<sup>th</sup> Jan 2011 by M/s. Wonder Cement Limited as below:**

<b>A. Specific Conditions</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Reply</b>
i	Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50 mg/Nm <sup>3</sup> by installing adequate air pollution control system.	Continuous monitoring system has been installed & Real time Data has been connected to CPCB & RPCB Server.
ii	High efficiency Electrostatic Precipitators (ESPs) shall be provided to clinker cooler to control particulate matters within 50mg/Nm <sup>3</sup> . The stack height shall be	Air pollution control system (along with stack height) installed at main sources of air pollution listed below.

**Wonder Cement Ltd.**

Integrated EC No. J-11011/506/2007-IA. II (I) Dated 11<sup>th</sup>/12<sup>th</sup> June, 2008,

Corrigendum dated 24.09.2008 & 04/01/2011

Expansion of Cement Capacity EC No. J-11011/437/2011-IA. II (I) Dated 19th June 2012

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	<p>maintained as per the RSPCB /CPCB guidelines to control air emissions from the boiler of the captive power plant within 100 mg/Nm<sup>3</sup>. Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50mg/Nm<sup>3</sup> by installing adequate air pollution control system and reports submitted to this Ministry including its Regional Office at Lucknow, RSPCB and CPCB once in six Months.</p>	<p>The particulate matters values are monitored during last six months (<b>Apr-16 to Sept-16</b>) are given below table 1.1.</p> <p style="text-align: center;"><b>Table No.1.1</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Sr. No.</th> <th>Location</th> <th>Type of APCD</th> <th>Stack height (In Mtr)</th> <th>Monitored P M Values Range (in mg/Nm<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>LS Crusher</td> <td>Bag Filter</td> <td>31.0</td> <td>19.40-25.0</td> </tr> <tr> <td>2.</td> <td>Raw Mill &amp; Kiln</td> <td>Bag House</td> <td>165.0</td> <td>14.7-28.5</td> </tr> <tr> <td>3.</td> <td>Coal Mill</td> <td>Bag House</td> <td>78.0</td> <td>20.8-32.3</td> </tr> <tr> <td>4.</td> <td>Clinker Cooler</td> <td>ESP</td> <td>58.6</td> <td>19.1-28.8</td> </tr> <tr> <td>5.</td> <td>Cement Mill-1</td> <td>Bag House</td> <td>55.0</td> <td>12.2-19.9</td> </tr> <tr> <td>6.</td> <td>Cement Mill-2</td> <td>Bag House</td> <td>55.0</td> <td>18.4-20.7</td> </tr> <tr> <td>7.</td> <td>TPP Boiler</td> <td>ESP</td> <td>105.0</td> <td>14.4-26.3</td> </tr> </tbody> </table> <p>Monitoring reports submitted regularly at Lucknow, RSPCB &amp; CPCB. Third party monitoring results of last six months are enclosed as <b>Annexure-1</b>.</p>	Sr. No.	Location	Type of APCD	Stack height (In Mtr)	Monitored P M Values Range (in mg/Nm <sup>3</sup> )	1.	LS Crusher	Bag Filter	31.0	19.40-25.0	2.	Raw Mill & Kiln	Bag House	165.0	14.7-28.5	3.	Coal Mill	Bag House	78.0	20.8-32.3	4.	Clinker Cooler	ESP	58.6	19.1-28.8	5.	Cement Mill-1	Bag House	55.0	12.2-19.9	6.	Cement Mill-2	Bag House	55.0	18.4-20.7	7.	TPP Boiler	ESP	105.0	14.4-26.3
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iii	<p>Bag filter to raw mill/kiln, cement mill, coal mill, cement silo, packing plant, transfer point, coal handling system etc. shall be installed to control SPM levels within 50 mg/Nm<sup>3</sup>. Fugitive emissions shall be controlled by dust suppression and sprinkling of water. SPM shall be emitted from mining process. Dust shall be emitted in handling of overburden and its transport and dumping. Dust shall be generated during excavation, handling, transport and dumping of overburden.</p>	<p>Complied, we are carried out all measures for pollution control.</p> <p>We are carrying out wet drilling, controlled blasting, Water sprinkling is being done on haul roads, loading faces and crusher unloading/transfer points.</p>																																								
iv	<p>Regular water sprinkling shall be carried out in critical areas prone to</p>	<p>Complied, Regular water sprinkling is being done to control the dust emissions &amp; dust suppression on</p>																																								

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	air pollution and having high levels of SPM and RPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	the haul road, loading & unloading of the raw material and finished products etc. during plant operation.
v	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Complied, Secondary fugitive emissions from all the sources are being controlled. We have been taken all necessary actions in LS Mines & cement plant for controlling of fugitive dust emission at various locations in process like installation of dust collectors at all the material transfers points, water spray system, covered clinker storage silo, with adequate vent bag filters , fly ash storage in silo, water sprinkling at limestone and coal unloading points. Fugitive emission monitoring results of period <b>Apr-16 to Sept-16</b> are enclosed as <b>Annexure-2</b> .
vi	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. Crusher shall be operated with high efficiency bag filters. All conveyers shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	Complying with, All action has been taken in LS mines & Cement plant for controlling of fugitive dust emissions at various locations in process like installation of dust collectors at all the material transfers points, water spray system, covered clinker storage silo with adequate vent bag filters, fly ash storage in silo, water sprinkling at limestone and coal unloading points, gypsum and additives storage under the covered shed and all the conveyors belts are covered with GI sheet. Pneumatic system is used for fly ash handling system.

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vii	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 vehicles shall be covered with a tarpaulin and shall not be overloaded.	Complied, Vehicular emissions are being kept under control & regularly monitoring of fuel & lube oil consumption of Heavy Earth Moving Equipment's as well auxiliary equipment's .Lime stone of the deposit it is of compact/massive type and blasted limestone is the form of small size boulders. Also water is sprayed on blasted limestone. So there is no generation of dust from the mineral loaded to the dumpers during their transportation. The vehicles /dumpers plight with their designated load.																
viii	As proposed, total water requirement from bore well and mine pit shall not exceed 2,870 m <sup>3</sup> /day. Water efficient technology like air cooled condenser and efficient cooling tower shall be installed. All the waste water from the power plant shall be treated, recycled and reused in the process after neutralization and other plant related activities i.e. cooling, dust suppression and horticulture purpose etc. 'Zero 'discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises.	<p>Complied, Average Water consumption of period <b>Apr-16 to Sept-16 is 2090.03</b> KLD with against to 2470 KLD ground Water abstraction permission. Month wise Water consumption For cement plant L-I ,L-II,LS Mines,TPP &amp; colony For <b>above period</b> are mentioned in below Table No.2.1.</p> <p style="text-align: center;"><b><u>Table No. 2.1</u></b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #f4a460;">Month</th> <th style="background-color: #f4a460;">Water Consumption in KL</th> </tr> </thead> <tbody> <tr> <td style="background-color: #f4a460;"><b>Apr-16</b></td> <td style="background-color: #f4a460;">70545</td> </tr> <tr> <td style="background-color: #f4a460;"><b>May-16</b></td> <td style="background-color: #f4a460;">71405</td> </tr> <tr> <td style="background-color: #f4a460;"><b>Jun-16</b></td> <td style="background-color: #f4a460;">63173</td> </tr> <tr> <td style="background-color: #f4a460;"><b>Jul-16</b></td> <td style="background-color: #f4a460;">52659</td> </tr> <tr> <td style="background-color: #f4a460;"><b>Aug-16</b></td> <td style="background-color: #f4a460;">53936</td> </tr> <tr> <td style="background-color: #f4a460;"><b>Sept-16</b></td> <td style="background-color: #f4a460;">70757</td> </tr> <tr> <td style="background-color: #f4a460;"><b>Total</b></td> <td style="background-color: #f4a460;"><b>382475</b></td> </tr> </tbody> </table> <p>Waste water generated from the plant &amp; power plant is being treated, recycled and reused in the Power generation &amp;, dust suppression and horticulture purpose etc. 'Zero' discharge has been strictly maintained and no effluent is discharged outside the premises.</p>	Month	Water Consumption in KL	<b>Apr-16</b>	70545	<b>May-16</b>	71405	<b>Jun-16</b>	63173	<b>Jul-16</b>	52659	<b>Aug-16</b>	53936	<b>Sept-16</b>	70757	<b>Total</b>	<b>382475</b>
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ix	Domestic effluent shall be treated in Sewage Treatment Plant (STP) shall be installed for the colony. Treated domestic effluent shall be used for	Complied, Domestic effluent is treated in STP of 450 KLD capacity. Treated water from STP is reused in power generation & dust suppression. STP Treated waste water analysis data of last six months ( <b>Apr-16</b>																

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	<p>green belt development and dust suppression within the plant premises. Domestic waste from colony and STP shall be segregated into bio-degradable and non-biodegradable. Bio-degradable waste shall be composted and non-biodegradable waste shall be land filled at identified sites. ETP should also be provided for workshop and mineral separation plant wastewater.</p>	<p>to Sept-16) in mentioned below table No. 3.1.</p> <p style="text-align: center;"><b>Table No. 3.1</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f4a460;"> <th style="text-align: left;">parameters</th> <th style="text-align: left;">Permissible limit from RPCB</th> <th style="text-align: left;">Concentration at STP outlet</th> <th style="text-align: left;">Concentration at ETP outlet</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>5.5 - 9.0</td> <td>7.85-8.10</td> <td>6.54-6.85</td> </tr> <tr> <td>Suspended Solids</td> <td>Max. 100 mg/l</td> <td>0.40-1.00</td> <td>0.01-0.85</td> </tr> <tr> <td>Oil &amp; Grease</td> <td>Max. 10 mg/l</td> <td>Trace</td> <td>Trace</td> </tr> <tr> <td>B.O.D 27oC, 3 days</td> <td>Max. 30 mg/l</td> <td>2.40-8.00</td> <td>4.0-8.0</td> </tr> <tr> <td>C.O.D.</td> <td>Max. 250 mg/l</td> <td>7.60-24.80</td> <td>8.0-14.0</td> </tr> <tr> <td>Ammonical Nitrogen (as N)</td> <td>Max.50 mg/l</td> <td>3.4-5.70</td> <td>Not Applicable</td> </tr> <tr> <td>Nitrate Nitrogen</td> <td>Max.10 mg/l</td> <td>3.80-5.80</td> <td>Not Applicable</td> </tr> <tr> <td>Chlorides</td> <td>Max.1000 mg/l</td> <td>135-205</td> <td>Not Applicable</td> </tr> <tr> <td>Sulphates</td> <td>Max.1000 mg/l</td> <td>108-186</td> <td>Not Applicable</td> </tr> <tr> <td>Copper (as Cu)</td> <td>Not to exceed 1.0 mg/l</td> <td>Not Applicable</td> <td>Trace</td> </tr> <tr> <td>Iron (as Fe)</td> <td>Not to exceed 1.0 mg/l</td> <td>Not Applicable</td> <td>0.01- 0.03</td> </tr> </tbody> </table> <p>Third party monitoring results of last six months are enclosed as <b>Annexure-3</b>.</p>	parameters	Permissible limit from RPCB	Concentration at STP outlet	Concentration at ETP outlet	pH	5.5 - 9.0	7.85-8.10	6.54-6.85	Suspended Solids	Max. 100 mg/l	0.40-1.00	0.01-0.85	Oil & Grease	Max. 10 mg/l	Trace	Trace	B.O.D 27oC, 3 days	Max. 30 mg/l	2.40-8.00	4.0-8.0	C.O.D.	Max. 250 mg/l	7.60-24.80	8.0-14.0	Ammonical Nitrogen (as N)	Max.50 mg/l	3.4-5.70	Not Applicable	Nitrate Nitrogen	Max.10 mg/l	3.80-5.80	Not Applicable	Chlorides	Max.1000 mg/l	135-205	Not Applicable	Sulphates	Max.1000 mg/l	108-186	Not Applicable	Copper (as Cu)	Not to exceed 1.0 mg/l	Not Applicable	Trace	Iron (as Fe)	Not to exceed 1.0 mg/l	Not Applicable	0.01- 0.03
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X	<p>Permission for the drawl of 2,870 m<sup>3</sup>/day ground water from State Ground Water Board/Central Ground Water Authority (SGWB/CGWA) shall be obtained. Worked out pit developed during mining shall be converted into artificial water reservoir and water shall be used for various project activities. The water stored in the artificial reservoir shall be used maximum to reduce ground water consumption.</p>	<p>Complied,</p> <p>Renewal of Ground water abstraction permission has already been obtained from CGWA New Delhi, vide Letter no. 21-4(212)/WR/CGWA/2007-869 Dated: 29th May, 2015.</p> <p>Permission of Mining intersection of water table has been granted from the Central Water Authority New Delhi, Vide letter no.21-4(212)/ WR/ CGWA /2007-1570 Dated 9<sup>th</sup> Oct. 2015.</p>																																																
xi	<p>The project proponent shall ensure</p>	<p>Complied,</p>																																																

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	that no natural watercourse shall be obstructed due to any mining operations.	There is no natural watercourse in the mine lease area. Therefore no natural watercourse is being affected or obstructed due to mining activities.										
xii	All the fly ash shall be utilized in manufacturing of Pozzolona Portland Cement (PPC) itself. The dust collected from the pollution control equipment's shall also be properly recycled and reutilized in the cement plant itself. STP sludge shall be used as manure for green belt development within the premises. Waste oil shall be sold to the authorized recyclers/re processors.	<p>Complied, Fly ash generated from own power plant 100% utilized in manufacturing of PPC itself. A continuous effort has been made for use of fly ash in making PPC. Fly ash consumption &amp; PPC production of last six Months mention below table no. 4.1.</p> <p style="text-align: center;"><b>Table No. 4.1</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Year</th> <th>Total Fly ash consumption</th> <th>Total PPC production (Tone)</th> <th>% Fly ash Cons.</th> <th>% PPC production</th> </tr> </thead> <tbody> <tr> <td>Apr-16 to Sept-16</td> <td>303714.139 MT</td> <td>1118684</td> <td>27.14 %</td> <td>59.64%</td> </tr> </tbody> </table> <p>Sludge generated from STP is being utilized as manure for green belt development within the premises. Presently waste oil generated from process equipment is reused in process as lubrication and remaining quantity is sold to authorized recycler.</p>	Year	Total Fly ash consumption	Total PPC production (Tone)	% Fly ash Cons.	% PPC production	Apr-16 to Sept-16	303714.139 MT	1118684	27.14 %	59.64%
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Apr-16 to Sept-16	303714.139 MT	1118684	27.14 %	59.64%								
xiii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.	We have been applied for permission of regular Co-processing of Non-Hazardous waste as Alternative fuel vide latter no. WCL/ENV/HW-01/2014-15 ,Dated : 21/03/15.										
xiv	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	Complied, Fly ash is being used in making of PPC. Assured to comply the Possibility is being explored to use the low grade lime & solid waste in the cement manufacturing.										
xv	Wet drilling blasting method and provision for the control air emissions during blasting using dust collectors etc. shall be used.	Complied, We are using wet drilling machines with advance dust collectors to control dust emission at the time of drilling. We are using latest control blasting technique of NONEL to control blast induced noise,										

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		fly rocks, rock movement & dust emission.
xvi	Action plan for the mining, management of over burden (removal, storage, disposal etc.), reclamation of the mined out area and mine closure shall be submitted to the Ministry and its Regional Office at Lucknow.	Complied, Mining activities are being done as per Mining Plan duly approved by IBM which includes mining, management of over burden (removal, storage, disposal etc.), reclamation of the mined out area and mine closure plan.
xvii	The over burden (OB), inter burden and other waste generated from mines, if any, shall be stacked at the earmarked dump sites only and should not be kept active for long period. Backfilled OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of reclaimed areas shall continue until the vegetation becomes self-sustaining. Regular compliance shall be submitted to the Ministry and its Regional Office at Lucknow on six monthly basis.	Complied, The over burden (OB), inter burden and other waste generated from mines, is stacked at the earmarked dump sites as per provision taken in Approved Mining Plan scheme approved by Indian Bureau of Mines and dump dimensions & designs are as per guidelines. Plantation is being done on waste dumps to control soil erosion.
xviii	The top soil and solid waste shall be stacked separately at specified dumping site with proper safeguards. Top soil shall be used for the plantation/green belt development during reclamation and solid waste for back filling. The area for external over burden dump shall be reduced by suitably increasing the height of the dumps with proper terracing. It shall be ensured that the overall slope of the dump does not exceed 28°.	Complied, Top soil and solid waste are being stacked separately at specified dumping site/storage yard with proper safeguards. Top soil has been utilized for the development of greenbelt. Further it is ensured that top soil will be used for the plantation/greenbelt development during reclamation and solid waste for back filling.
xix	Garland drains shall be constructed to arrest silt and sediment flows from	Complied, Garland drains have been constructed around the

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	<p>soil. The water so collected shall be used for watering the mine area, haul roads, greenbelt development etc. The drains shall be regularly de-silted and maintained properly.</p>	<p>active mines pit to arrest silt and sediment flows with the water. The collected water used for watering in the mines area, haul roads, greenbelt development etc. Drains are de-silted &amp; maintained.</p>															
XX	<p>Suitable rainwater harvesting and conservation measures to augment ground water resources in the area on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board in cement plant and mining area to augment ground water resources and use for dust suppression and horticulture.</p>	<p>Complied, To augment ground water resources in the area on long term basis; a suitable rainwater harvesting plan has already been prepared and conservation measures are implemented for the same.</p> <p>Details of developed rain water harvesting system mention below table no. 5.1.</p> <p style="text-align: center;"><b><u>Table No. 5.1</u></b></p> <table border="1" data-bbox="751 943 1390 1227"> <thead> <tr> <th>Type of RWHS</th> <th>Nos. of Developed RWHS System</th> <th>Dimension of Filter (L X W X H in meter)</th> </tr> </thead> <tbody> <tr> <td>Reservoir</td> <td>01</td> <td>-</td> </tr> <tr> <td>Open Well</td> <td>04</td> <td>2 x 1 x 1</td> </tr> <tr> <td>Bore Well</td> <td>03</td> <td>2 x 1 x 1</td> </tr> <tr> <td>Roof Top</td> <td>01</td> <td>2 x 1 x 1</td> </tr> </tbody> </table>	Type of RWHS	Nos. of Developed RWHS System	Dimension of Filter (L X W X H in meter)	Reservoir	01	-	Open Well	04	2 x 1 x 1	Bore Well	03	2 x 1 x 1	Roof Top	01	2 x 1 x 1
Type of RWHS	Nos. of Developed RWHS System	Dimension of Filter (L X W X H in meter)															
Reservoir	01	-															
Open Well	04	2 x 1 x 1															
Bore Well	03	2 x 1 x 1															
Roof Top	01	2 x 1 x 1															

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xxi	<p>Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board during the mining operation. The ground water monitoring shall be carried out 4 times in a year i.e. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and data thus collected shall be regularly sent to the Ministry, its Regional Office at Lucknow, Central Ground Water Authority and State Ground Water Board, Lucknow.</p>	<p>Complied, Monitoring are being carried out 4 times in a year i.e. Pre-Monsoon (April-May), Monsoon (August), Post-Monsoon (November) and Winter (January). Third party Ground water level report enclosed as <b>Annexure-4</b> &amp; Ground water quality of above period enclosed as <b>Annexure-5</b>.</p> <p>Total 06 Pizometric well developed in core zone. In house Ground water level monitoring results of Core Zone of the period of <b>Apr-16 to Sept-16</b> are mentation below table no. 6.1</p> <p style="text-align: center;"><b><u>Table No.6.1</u></b></p> <table border="1" data-bbox="750 851 1412 1243"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="6">Month</th> </tr> <tr> <th>Apr-16</th> <th>May-16</th> <th>Jun-16</th> <th>Jul-16</th> <th>Aug-16</th> <th>Sept-16</th> </tr> </thead> <tbody> <tr> <td>PW-1</td> <td>38.9</td> <td>43.6</td> <td>44.5</td> <td>18.6</td> <td>1.5</td> <td>2.5</td> </tr> <tr> <td>PW-2</td> <td>37.5</td> <td>42.7</td> <td>43.6</td> <td>20.9</td> <td>1.8</td> <td>2.2</td> </tr> <tr> <td>PW-3</td> <td>42.4</td> <td>44.4</td> <td>45.2</td> <td>16.8</td> <td>1.6</td> <td>2.4</td> </tr> <tr> <td>PW-4</td> <td>38.6</td> <td>40.1</td> <td>41.8</td> <td>17.5</td> <td>1.9</td> <td>2.1</td> </tr> <tr> <td>PW-5</td> <td>34.5</td> <td>38.5</td> <td>40.4</td> <td>19.2</td> <td>1.4</td> <td>2.0</td> </tr> <tr> <td>PW-6</td> <td>33.2</td> <td>37.9</td> <td>39.9</td> <td>18.4</td> <td>1.8</td> <td>2.2</td> </tr> </tbody> </table>	Location	Month						Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sept-16	PW-1	38.9	43.6	44.5	18.6	1.5	2.5	PW-2	37.5	42.7	43.6	20.9	1.8	2.2	PW-3	42.4	44.4	45.2	16.8	1.6	2.4	PW-4	38.6	40.1	41.8	17.5	1.9	2.1	PW-5	34.5	38.5	40.4	19.2	1.4	2.0	PW-6	33.2	37.9	39.9	18.4	1.8	2.2
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xxii	<p>The project proponent shall take appropriate mitigative measures to prevent pollution of nearby River and other surface water body, if any.</p>	<p>Complied, We have mention zero discharge &amp; Treated waste water is being reused in power generation and dust suppression.</p>																																																							
xxiii	<p>Deep hole wet drilling sequential blasting method shall be adopted and provision for the control air emissions during blasting using dust collectors/extractors etc. shall be made. Blasting operation shall be carried out during the day time only and one bench at a time shall be blasted. The mitigative measures for control of</p>	<p>Complied, We are using State-of-the-Art technology used for the project for conserving the environment. We are using wet drilling machines with advance dust collectors drilling &amp; latest control blasting technique of NONEL to control blast induced noise, fly rocks, rock movement &amp; dust emission. All necessary statutory permissions are taken from Chief Controller of Explosives. We are carried out regular monitoring of ground</p>																																																							

**Wonder Cement Ltd.**

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	ground vibrations and to arrest fly rocks and boulders shall be implemented. No objection certificate from the Chief Controller of Explosives shall be obtained.	<p>vibration. Results are found in permissible limit. Summary of blast induced ground vibration measured by minimize blaster instrument during <b>Apr-16 to Sept-16</b> are mention below table no 7.1.</p> <p style="text-align: center;"><b><u>Table No. 7.1</u></b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #f4a460;">Type of Vibration</th> <th style="background-color: #f4a460;">Avg. Ground vibration results (in mm/sec (ppv))</th> <th style="background-color: #f4a460;">Permissible limit (in ppv)</th> </tr> </thead> <tbody> <tr> <td style="background-color: #f4a460;">8-25Hz</td> <td style="background-color: #d3d3d3;">2.35</td> <td style="background-color: #d3d3d3;">10</td> </tr> <tr> <td style="background-color: #f4a460;">&gt; 25 Hz</td> <td style="background-color: #d3d3d3;">2.84</td> <td style="background-color: #d3d3d3;">15</td> </tr> </tbody> </table>	Type of Vibration	Avg. Ground vibration results (in mm/sec (ppv))	Permissible limit (in ppv)	8-25Hz	2.35	10	> 25 Hz	2.84	15																																																					
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xxiv	Rain water collected from the roof top shall be injected into the ground through injection wells to recharge the ground water table.	<p>Complying with , Roof top rain water harvesting system is being installed at Bhatkotri UPS School &amp; New Administration building to recharge the ground water. Details are mention above table no 5.1. New 06 Nos. Rain Water Harvesting structures are under process.</p>																																																														
xxv	As proposed, Out of 183.588 ha. Earmarked for the cement plant, greenbelt shall be developed in 61 ha. in mine lease area, out of total 740.93 ha, 320.40 ha. Shall be used for reservoir and green belt shall be developed in 75 ha. as per the CPCB guidelines in consultation with local DFO to mitigate the impact of fugitive emissions. Further efforts shall be made to maintain the area properly already afforested.	<p>Plantation/green belt development activities have already been started. The details of plantation in Nos. are mention below table no 8.1.</p> <p style="text-align: center;"><b><u>Table No. 8.1</u></b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2" style="background-color: #f4a460;">Duration</th> <th colspan="3" style="background-color: #f4a460;">Plant &amp; Colony Area</th> <th colspan="3" style="background-color: #f4a460;">Out Side Plant Area</th> </tr> <tr> <th style="background-color: #d3d3d3;">Trees</th> <th style="background-color: #d3d3d3;">Shrubs</th> <th style="background-color: #d3d3d3;">Total</th> <th style="background-color: #d3d3d3;">Trees</th> <th style="background-color: #d3d3d3;">Shrubs</th> <th style="background-color: #d3d3d3;">Total</th> </tr> </thead> <tbody> <tr> <td style="background-color: #f4a460;">2011-12</td> <td style="background-color: #d3d3d3;">618</td> <td style="background-color: #d3d3d3;">4573</td> <td style="background-color: #d3d3d3;">5191</td> <td style="background-color: #d3d3d3;">4581</td> <td style="background-color: #d3d3d3;">12877</td> <td style="background-color: #d3d3d3;">17458</td> </tr> <tr> <td style="background-color: #f4a460;">2012-13</td> <td style="background-color: #d3d3d3;">3156</td> <td style="background-color: #d3d3d3;">6064</td> <td style="background-color: #d3d3d3;">9220</td> <td style="background-color: #d3d3d3;">1832</td> <td style="background-color: #d3d3d3;">744</td> <td style="background-color: #d3d3d3;">2576</td> </tr> <tr> <td style="background-color: #f4a460;">2013-14</td> <td style="background-color: #d3d3d3;">17653</td> <td style="background-color: #d3d3d3;">18340</td> <td style="background-color: #d3d3d3;">35993</td> <td style="background-color: #d3d3d3;">455</td> <td style="background-color: #d3d3d3;">4113</td> <td style="background-color: #d3d3d3;">4568</td> </tr> <tr> <td style="background-color: #f4a460;">2014-15</td> <td style="background-color: #d3d3d3;">3524</td> <td style="background-color: #d3d3d3;">15926</td> <td style="background-color: #d3d3d3;">19450</td> <td style="background-color: #d3d3d3;">1329</td> <td style="background-color: #d3d3d3;">4103</td> <td style="background-color: #d3d3d3;">5432</td> </tr> <tr> <td style="background-color: #f4a460;">2015-16</td> <td style="background-color: #d3d3d3;">9376</td> <td style="background-color: #d3d3d3;">0</td> <td style="background-color: #d3d3d3;">9376</td> <td style="background-color: #d3d3d3;">0</td> <td style="background-color: #d3d3d3;">3000</td> <td style="background-color: #d3d3d3;">3000</td> </tr> <tr> <td style="background-color: #f4a460;">2016-17 (up to sept-16)</td> <td style="background-color: #d3d3d3;">2750</td> <td style="background-color: #d3d3d3;">8095</td> <td style="background-color: #d3d3d3;">10665</td> <td style="background-color: #d3d3d3;">10646</td> <td style="background-color: #d3d3d3;">6566</td> <td style="background-color: #d3d3d3;">17712</td> </tr> <tr> <td style="background-color: #f4a460;">Total</td> <td style="background-color: #d3d3d3;">36897</td> <td style="background-color: #d3d3d3;">52998</td> <td style="background-color: #d3d3d3;">89895</td> <td style="background-color: #d3d3d3;">18843</td> <td style="background-color: #d3d3d3;">31403</td> <td style="background-color: #d3d3d3;">50246</td> </tr> </tbody> </table> <p>Planting species of Trees are Neem, Spathodia, Alstonia, Champa, Bottle Palm, Peltophoram, Fish Tail Palm, Casuriana, Harsinghar, Jangal Jalabi, Green Bamboo, Golden Bamboo etc. &amp; Shrubs Species are Anar, kaner, Ficus panda, Mogra, amrud, Canna,</p>	Duration	Plant & Colony Area			Out Side Plant Area			Trees	Shrubs	Total	Trees	Shrubs	Total	2011-12	618	4573	5191	4581	12877	17458	2012-13	3156	6064	9220	1832	744	2576	2013-14	17653	18340	35993	455	4113	4568	2014-15	3524	15926	19450	1329	4103	5432	2015-16	9376	0	9376	0	3000	3000	2016-17 (up to sept-16)	2750	8095	10665	10646	6566	17712	Total	36897	52998	89895	18843	31403	50246
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		Bismarkia palm, Chandani, Tecoma gaudi chaudi, Torch glory, Gultara, Tecoma capensis, Aclypha, Callindra, Thevatia, Bougainvillea, Agave, Furcaria, Euporbia mill etc.
xxvi	The void left unfilled 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 along the excavated area.	Assured to Complied
xxvii	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary Allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office within 3 months from the date of issue of this letter.	Conservation plan for the protection of flora & fauna has been submitted to MOEF vide letter no. WCL/105/2008 dated 23-10-2008. Work of conservation is in progress. Peripheral fencing has already been carried out along the mining lease area to protect the wild animals.
xxviii	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.	Complied
xxix	Mechanized open casting shall be adopted and no change in mining	Compiled, Mechanized open cast mining is being done and no change in mining technology and scope

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	technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	of work will made without the approval of MOEF.
xxx	Consent to Operate shall be obtained from RSPCB before starting enhanced production from the mine.	Complying with,
xxxi	Rehabilitation and Resettlement Plan for the project affected population as per the policy of the State Govt. shall be implemented.	PAs revealed that land for both cement plant and mine has been acquired by Rajasthan State Govt. On their request, as per Land Acquisition Act, 1984. 163.57 ha. Private land for cement plant and 269.607ha. Private land for mine has been acquired and project authorities, in turn, deposited Rs.1341.99 lakhs and RS. 2056.34 lakhs respectively as a total compensation (Including R&R) with land acquisition officer, Nimbahera as per state Land Compensation Policy.
xxxii	Measures shall be taken to prevent impact of particulate emissions/fugitive emissions, if any from the proposed plant on the surrounding reserve/protected forests viz. Manchala (8.0 km. NW), Kalkalia (6.0 km. NW), Bansria (2.5km. NW), Dhamania (6.5km. WNW), MujhalArnoda (7.5km. NW), BhanwariaKhalsa (8.5km. NW), Kotmangra (3.0km W), Mawal Bordia (6.0km. W), Majheveria (8.0 km. W) Reserve Forests and Kannauj (4.5km. W), Nahargarh Achalpura (9.5km. NW) and Asligarh Part A & B (2.0 & 2.5 km. NW) Protected Forests located within 10km radius of the project. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.	Conservation plan for the protection of flora & fauna has been submitted to MOEF vide letter no. WCL/105/2008 DATED 23-10-2012.
xxxiii	The company shall obtain necessary	Complied,

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	clearances/approval from the concerned Departments i.e. Indian Bureau of Mines, State Government, MoEF etc. for the linked mining component before undertaking any construction activity at the project site.	Approved mining plan from Indian Bureau of Mines Vide Letter No.: 682 (23) (755)/10-MCCM (N)-Udai dated 20-7-2011, which has been submitted to the concerned authorities.
xxxiv	All the safety norms stipulated by the Director General, Mine & Safety (DGMS) shall be implemented.	Complying with
xxxv	Acoustic enclosures shall be provided to control noise wherever necessary. Mine machine shall be provided with silencers. Noise shall also be controlled from cooler fans, compressor house, cement mill and raw mill, cement plant and drilling machines, excavator, blasting at mine site using appropriate noise control measures.	Complied, Acoustic enclosures are being provided at all high noise area. Silencers are provided in all mining machineries. Noise is controlled at all high noise locations.
xxxvi	All the recommendations of the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed.	Complied, All the recommendations mentioned in the CREP guidelines is being followed and implemented.
<b>B. General Conditions :</b>		
i	The project authority shall adhere to the stipulations made by Rajasthan State Pollution Control Board (RSPCB) and State Government.	Complied
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Assured to Complying
iii	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the RSPCB. At no time, particulate emissions from the cement plant including kiln, coal mill, and cement mill, cooler shall exceed beyond the	Complied, Particulate matter emissions from various units are being maintained within the prescribed standards. All the pollution control equipment's are interlocked with process system which ensures the all the times running of pollution control equipment's.

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	permissible limit. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.																															
iv	<p>At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the RSPCB. 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 shall be carried out regularly in consultation with RSPCB and data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Lucknow, RSPCB and CPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated time to time.</p>	<p>Complied, We have established four AAMS at periphery of the plant. In house Lab ambient air quality monitoring data range of period <b>Apr-16 to Sept-16</b> of mention in below table no. 9.1.</p> <p style="text-align: center;"><b>Table No. 9.1</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f4a460;"> <th style="text-align: left;">Location</th> <th style="text-align: center;">SPM (µg/m<sup>3</sup>)</th> <th style="text-align: center;">PM-10 (µg/m<sup>3</sup>)</th> <th style="text-align: center;">PM-2.5 (µg/m<sup>3</sup>)</th> <th style="text-align: center;">SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th style="text-align: center;">NO<sub>x</sub> (µg/m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr style="background-color: #f4a460;"> <td style="text-align: left;">WCL Main Gate</td> <td style="text-align: center;">215-455</td> <td style="text-align: center;">38.8- 69.8</td> <td style="text-align: center;">20.40- 39.80</td> <td style="text-align: center;">16.02- 19.50</td> <td style="text-align: center;">14.20- 35.42</td> </tr> <tr style="background-color: #f4a460;"> <td style="text-align: left;">Near WCL Mine office</td> <td style="text-align: center;">260-492</td> <td style="text-align: center;">47.2- 74.6</td> <td style="text-align: center;">27.20- 44.50</td> <td style="text-align: center;">18.20- 20.20</td> <td style="text-align: center;">16.30- 31.20</td> </tr> <tr style="background-color: #f4a460;"> <td style="text-align: left;">BW-Near Power Grid</td> <td style="text-align: center;">285-460</td> <td style="text-align: center;">48.4- 70.9</td> <td style="text-align: center;">23.50- 40.20</td> <td style="text-align: center;">17.52- 22.50</td> <td style="text-align: center;">17.80- 30.40</td> </tr> <tr style="background-color: #f4a460;"> <td style="text-align: left;">WCL-Staff Colony Area</td> <td style="text-align: center;">192-422</td> <td style="text-align: center;">40.7- 68.8</td> <td style="text-align: center;">20.40- 38.10</td> <td style="text-align: center;">14.62- 19.40</td> <td style="text-align: center;">15.40- 28.60</td> </tr> </tbody> </table> <p>We are carried out Third party monitoring Approved by NABET/QCI/MoEF, NABL, NSIC on quarterly basis for Core &amp; Buffer zone; Results are above enclosed as <b>Annexure-6</b>.</p> <p>We have also been Two Continuous Online Ambient Air Quality monitoring system installed at Up &amp; Down wind direction of plant &amp; Real time Data has been connect to CPCB &amp; RPCB Server.</p>	Location	SPM (µg/m <sup>3</sup> )	PM-10 (µg/m <sup>3</sup> )	PM-2.5 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	WCL Main Gate	215-455	38.8- 69.8	20.40- 39.80	16.02- 19.50	14.20- 35.42	Near WCL Mine office	260-492	47.2- 74.6	27.20- 44.50	18.20- 20.20	16.30- 31.20	BW-Near Power Grid	285-460	48.4- 70.9	23.50- 40.20	17.52- 22.50	17.80- 30.40	WCL-Staff Colony Area	192-422	40.7- 68.8	20.40- 38.10	14.62- 19.40	15.40- 28.60
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v	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to	<p>Complied, Treated water reused in power generation &amp; dust suppression. The plant is running on zero discharge basis and there is no discharge of waste water outside the plant premises. The treated waste water is being utilized for plantation/greenbelt development and dust</p>																														

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Expansion of Cement Capacity EC No. J-11011/437/2011-IA. II (I) Dated 19th June 2012

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	<p>time. The treated waste water shall be utilized for plantation purpose.</p>	<p>suppression purpose. STP &amp; ETP Treated waste water analysis data of last six months (<b>Apr-16 to Sept-16</b>) in mentioned above table no 3.1.  Third party monitoring results of last six months are enclosed as <b>Annexure-3</b>.</p>																												
vi	<p>The overall noise levels in and around the plant area shall be kept well within the standards (85 dB A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986; Rules, 1989 viz. 75 dB A (Day time) and 70 dB A (Night time).</p>	<p>Complied, We have been carried out all control measures for noise pollution control and carried out regular monitoring at ambient air, Work zone &amp; Mining equipment's on monthly basis. Average data of period <b>Apr-16 to Sept-16</b> are mention below table no 10.1.</p> <p style="text-align: center;"><b><u>Table No.10.1</u></b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f4a460;"> <th style="text-align: center;">Location</th> <th style="text-align: center;">Avg. Noise level (Work Zone )</th> <th style="text-align: center;">CPCB Norms</th> </tr> </thead> <tbody> <tr> <td>Near Mines Quarry / Working Pit Area</td> <td style="text-align: center;">60.4</td> <td rowspan="13" style="text-align: center; vertical-align: middle;">85dB(A)</td> </tr> <tr> <td>Near Limestone Crusher</td> <td style="text-align: center;">71.5</td> </tr> <tr> <td>Near Additive Yard</td> <td style="text-align: center;">69.8</td> </tr> <tr> <td>Near Raw Mill</td> <td style="text-align: center;">74.2</td> </tr> <tr> <td>Near Coal Mill</td> <td style="text-align: center;">70.3</td> </tr> <tr> <td>Near Kiln</td> <td style="text-align: center;">74.3</td> </tr> <tr> <td>Near Cooler</td> <td style="text-align: center;">73.9</td> </tr> <tr> <td>Near Cement Mill</td> <td style="text-align: center;">73.7</td> </tr> <tr> <td>Near packing plant</td> <td style="text-align: center;">70.4</td> </tr> <tr> <td>TPP Boiler area</td> <td style="text-align: center;">73.3</td> </tr> <tr> <td>Near Turbine area</td> <td style="text-align: center;">74.3</td> </tr> <tr> <td>Near STP/ETP Plant</td> <td style="text-align: center;">60.6</td> </tr> </tbody> </table> <p>Third party monitoring results of above period are enclosed as <b>Annexure-8</b>.</p>	Location	Avg. Noise level (Work Zone )	CPCB Norms	Near Mines Quarry / Working Pit Area	60.4	85dB(A)	Near Limestone Crusher	71.5	Near Additive Yard	69.8	Near Raw Mill	74.2	Near Coal Mill	70.3	Near Kiln	74.3	Near Cooler	73.9	Near Cement Mill	73.7	Near packing plant	70.4	TPP Boiler area	73.3	Near Turbine area	74.3	Near STP/ETP Plant	60.6
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vii	<p>Proper housekeeping and adequate occupation all health programmes Shall be taken up. Occupational health surveillance programme shall be done on a regular basis and records maintained properly for at least 30-40years.The programme shall include lung function and sputum analysis is tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.</p>	<p>Complied, Proper housekeeping being maintained and adequate occupational health checkup programme is carried out regularly including lung function test at our well established hospital. We are carried out Pre-placement &amp; Periodic Medical checkup for all workers. The medical examination data of period <b>Apr-16 to Sept-16</b> are mention in below table no.11.1.</p> <p style="text-align: center;"><b><u>Table No.11.1</u></b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Parameters/Test</th> <th>Apr-16</th> <th>May-16</th> <th>Jun-16</th> <th>Jul-16</th> <th>Aug-16</th> <th>Sept-16</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AUDIOMETRY</td> <td>69</td> <td>206</td> <td>137</td> <td>112</td> <td>160</td> <td>156</td> <td>840</td> </tr> <tr> <td>SPIROMETRY</td> <td>69</td> <td>206</td> <td>137</td> <td>112</td> <td>160</td> <td>156</td> <td>840</td> </tr> <tr> <td>VISION/EYE</td> <td>74</td> <td>330</td> <td>164</td> <td>141</td> <td>202</td> <td>155</td> <td>1066</td> </tr> <tr> <td>X Ray Chest</td> <td>71</td> <td>52</td> <td>60</td> <td>104</td> <td>87</td> <td>42</td> <td>416</td> </tr> <tr> <td>LAB INVESTIGATION</td> <td>74</td> <td>330</td> <td>164</td> <td>141</td> <td>202</td> <td>155</td> <td>1066</td> </tr> <tr> <td>P.M.E</td> <td>10</td> <td>180</td> <td>104</td> <td>34</td> <td>113</td> <td>111</td> <td>552</td> </tr> <tr> <td>I.M.E</td> <td>64</td> <td>150</td> <td>60</td> <td>107</td> <td>89</td> <td>44</td> <td>514</td> </tr> </tbody> </table>	Parameters/Test	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sept-16	Total	AUDIOMETRY	69	206	137	112	160	156	840	SPIROMETRY	69	206	137	112	160	156	840	VISION/EYE	74	330	164	141	202	155	1066	X Ray Chest	71	52	60	104	87	42	416	LAB INVESTIGATION	74	330	164	141	202	155	1066	P.M.E	10	180	104	34	113	111	552	I.M.E	64	150	60	107	89	44	514
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viii	<p>The company shall harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.</p>	<p>Complying with</p>																																																																

## MOEF COMPLIANCE REPORT (NOV-2016)

ix	The company shall undertake eco-development measures including community welfare measures in the project area.	<p>Complied, This is regular activities and carried out through well-established Corporate Social Responsibility Department. The CSR Activities expenditure of period <b>Apr-16 to Sept-16</b> is mention below table no.12.1.</p> <p style="text-align: center;"><b><u>Table No.12.1</u></b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f4a460;"> <th style="text-align: center;">Sr. No.</th> <th style="text-align: center;">Particular</th> <th style="text-align: center;">CSR Expenditure (in Lakhs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Community Infrastructure Development</td> <td style="text-align: center;">10.16</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Education Promotion</td> <td style="text-align: center;">38.23</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Health &amp; Family Welfare</td> <td style="text-align: center;">2.69</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Natural Resources Management / Environment conservation</td> <td style="text-align: center;">94.94</td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Social Welfare</td> <td style="text-align: center;">8.54</td> </tr> <tr> <td style="text-align: center;">6.</td> <td>Promotion of spiritual &amp; social awareness</td> <td style="text-align: center;">7.54</td> </tr> <tr> <td style="text-align: center;">7.</td> <td>Women Empowerment</td> <td style="text-align: center;">4.91</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Total amount spent for CSR Activities</b></td> <td style="text-align: center;"><b>167.01</b></td> </tr> </tbody> </table>	Sr. No.	Particular	CSR Expenditure (in Lakhs)	1.	Community Infrastructure Development	10.16	2.	Education Promotion	38.23	3.	Health & Family Welfare	2.69	4.	Natural Resources Management / Environment conservation	94.94	5.	Social Welfare	8.54	6.	Promotion of spiritual & social awareness	7.54	7.	Women Empowerment	4.91	<b>Total amount spent for CSR Activities</b>		<b>167.01</b>
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x	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP.	Complied																											
xi	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Complied																											
xii	Adequate funds allocated towards the environmental pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated here in shall be submitted to the Ministry. The funds so	Complied, Adequate funds towards the environmental pollution control measures has been made and used exclusively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government.																											

**Wonder Cement Ltd.**

Integrated EC No. J-11011/506/2007-IA. II (I) Dated 11<sup>th</sup>/12<sup>th</sup> June, 2008,

Corrigendum dated 24.09.2008 & 04/01/2011

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	provided shall not be diverted for any other purpose.	
xiii	The Regional Office of this Ministry at Lucknow/CPCB/RSPCB shall monitor the Stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Complying
xiv	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.	Complied
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Rajasthan State Pollution Control Board 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 should 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 at Lucknow.	Complied
8	The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored	Noted.

**Wonder Cement Ltd.**

 Integrated EC No. J-11011/506/2007-IA. II (I) Dated 11<sup>th</sup>/12<sup>th</sup> June, 2008,

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	by the Regional Office of this Ministry located at Lucknow.	
9	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted.
10	Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.	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 Act, 1997.	Noted.
12	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.

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**Point wise reply of the Environmental Clearance Letter No.: J-11011/506/2007-IA.II (I)  
Dated 04<sup>th</sup> January, 2011 of Wonder Cement Limited as below: -**

S. No.	Specific Conditions	Reply
(i)	Data on ambient air, stack and fugitive emission shall be regularly submitted online to Ministry's Regional Office at Lucknow, SPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO <sub>2</sub> and NO <sub>x</sub> outside the appropriate place for the general public.	Complied, Soft & Hard copy Compliance report with Monitoring data submitted to the MoEF, New Delhi including its Regional Offices at Lucknow, Zonal Office of CPCB and RSPCB on regular basis. Monitoring data displayed at Main gate on Digital Display board & updated on monthly basis.
(ii)	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 <sup>th</sup> November, 2009 shall be complied.	Complied ,Ambient Air Quality Monitoring data of above period are mention in <b>Annexure-6</b> .
(iii)	The stack height of the boiler shall be 105m.	Complied , CTPP Boiler ESP stack Height is 105 m.
(iv)	The fly ash utilization shall be as per the fly ash utilization notification, 1999 as amended in 2009.	Complied,
(v)	The project proponent shall also submit six monthly reports on the status of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. The Regional Office of this Ministry at Lucknow/CPCB/SPCB shall monitor the stipulated conditions.	Complied, Compliance report submitted to the MoEF, New Delhi including its Regional Offices at Lucknow, Zonal Office of CPCB and RSPCB on regular basis.
(vi)	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	Complied, Environment Statement Report of Year 2015-16 has been submitted on dated 26.09.2016. A copy of ESR-2015-16 enclosed as <b>Annexure-7</b> .

**Wonder Cement Ltd.**

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Expansion of Cement Capacity EC No. J-11011/437/2011-IA. II (I) Dated 19th June 2012

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	status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail.	
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**Point wise reply of the Environmental Clearance Letter No.: J-11011/437/2011-IA.  
II (I) Dated 19<sup>th</sup> June 2012 by M/s. Wonder Cement Limited as below:**

A. Specific Conditions		
S. No.	Specific Conditions	Reply
i	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion, limit of SPM shall be controlled within 50 mg/Nm <sup>3</sup> by installing adequate air pollution control system. Electrostatic precipitators to clinker cooler, bag house to raw mill/kiln and bag filters to coal mill and cement mill. Low NO <sub>x</sub> burners should be provided to control NO <sub>x</sub> emissions.	Continuous monitoring system has been installed & Real time Data has been connects to CPCB & RPCB Server.
ii	Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB) and a feasibility report shall be prepared and submitted to the Ministry and its Regional Office at Lucknow within 3 months from the date of issue of the letter.	Complied, WHRB system of L-I (9.0 MW) & L-II (9.0 MW) has been commissioned & Production start from 14 -10-2016 .
iii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R.No.826 (E) dated 16 <sup>th</sup> November 2009 shall be followed.	Complied, We have established four AAMS at periphery of the plant. In house Lab ambient air quality monitoring data range of period <b>Apr-16 to Sept-16</b> of mention in above table 9.1. Ambient Air Quality Monitoring by Third party monitoring Approved NABET/QCI/MoEF, NABL, NSIC Lab on quarterly basis for Core & Buffer zone, Results are enclosed as <b>Annexure-6</b> .
iv	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and	Complied, Secondary fugitive emissions from all the

**Wonder Cement Ltd.**

Integrated EC No. J-11011/506/2007-IA. II (I) Dated 11<sup>th</sup>/12<sup>th</sup> June, 2008,

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	regularly monitored. Guidelines/Code of Practice issued by the CPCB in this regard should be followed.	sources are being controlled. We have been taken all necessary actions in LS Mines & cement plant for controlling of fugitive dust emission at various locations in process like installation of dust collectors at all the material transfers points, water spray system, covered clinker storage silo, with adequate vent bag filters ,fly ash storage in silo, water sprinkling at limestone and coal unloading points.
v	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and shall not be overloaded. The company shall have separate truck parking area. Vehicular emissions should be regularly monitored.	Complied, We have been taken all precautions to reduce impact of transport of raw material etc. Fly ash is transported in closed container, provide paved roads & regular sprinkling of water on roads. There are separate parking areas for trucks with green belt on the periphery and presently we start rail transport for reduce the road transport.
vi	Total water requirement shall not exceed 101 m <sup>3</sup> /day. Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater shall be recycled and reused in the process and /or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.	Complied, Total water consumption of period <b>Apr-16 to Sept-16 is 2090.03KLD</b> with against to 2470 KLD ground Water abstraction permission. The Month wise water abstraction details mention in above table no. 2.1.
vii	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Complied, To augment ground water resources in the area on long term basis; a suitable rainwater harvesting plan has already been prepared and conservation measures are implemented for the same.

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viii	Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated waste water should meet the norms prescribed by the State Pollution control Board or described under the E (P) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB.	Complied, Domestic effluent is treated in STP of 450KLD Capacity. The plant is running on zero discharge basis and there is no discharge of waste water outside the plant premises. The treated waste water is being utilized for Power generation, plantation/greenbelt development and dust suppression purpose. Treated waste water analysis data of last six month mention in above <b>Annexure-3</b> .
ix	All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorize recyclers/re-processors only.	Being Complied, Dust collected through pollution control equipment (bag filters etc.) from all plants are reused in the process. Used oil is sold to registered recycler.
x	All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003 and 2009. Efforts should be made to use fly ash maximum in making Pozollana Portland Cement (PPC).	Complied, Fly ash generated from own power plant 100% utilized in manufacturing of PPC itself. A continuous effort has been made for use of fly ash in making PPC. The details of PPC production & % Fly ash consumption mention above table no 4.1.
xi	Efforts shall be made to use low-grade lime, more fly ash and solid waste in the cement manufacturing.	Complied, Fly ash is being used in making of PPC. Assured to comply the Possibility is being explored to use the low grade lime & solid waste in the cement manufacturing. Fly ash generated from own power plant 100% utilized in manufacturing of PPC itself. A continuous effort has been made for use of fly ash in making PPC.
xii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision should be made accordingly.	Assured to Complied,
xiii	As proposed, green belt shall be developed in at least 33% area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local	The plantation details mention in above table no. 8.1.

**Wonder Cement Ltd.**

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xiv	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants should be implemented.	Complied, All the recommendations mentioned in the CREP guidelines is being followed and implemented.
xv	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner.	Complied, This is our regular activities and carried out through well-established Corporate Social Responsibility Department. Details are mention above table no. 12.1
xvi	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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.	Complied, We have been provided all necessary infrastructure and facilities such as fuel of cooking, mobile toilets, safe drinking water, medical health care etc. for workmen or labor.
xvii	The company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/procedures to being into focus any infringement/deviation/violation of environmental or forest norms/Conditions,(ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	Complied, We have submitted an environmental policy which includes their commitment towards legal & other requirements, operational control measures, operational control procedures, rolls & responsibility (Hierarchical System of reporting) & communication system with board of directors & other concerns agencies.

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<b>B. General Conditions :</b>																													
i.	The project authority shall adhere to the stipulations made by RSPCB and State Government.	<p>Complied, Consent Status/Authorization Status mention below table no. 13.1</p> <p style="text-align: center;"><b>Table No. 13.1</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f4a460;"> <th style="text-align: center;">Description</th> <th style="text-align: center;">Consent/Authorization No.</th> <th style="text-align: center;">Validity Period</th> </tr> </thead> <tbody> <tr> <td>Water Consent for Sewage Treatment Plant (450KLD)</td> <td>2014-2015/CPM /2148 dtd.11.02.2015</td> <td>1/02/2015 to 31/01/2018</td> </tr> <tr> <td>Air and Water Consent for CPP (40MW)</td> <td>2014-2015/CPM/2150 dtd. 11.02.2015</td> <td>1/02/2015 to 31/01/2018</td> </tr> <tr> <td>Consent to Operate of Air &amp; Water Act for Cement Plant L-I Up gradation Capacity Expansion Clinker 2.0MTPA to 3.0 MTPA &amp; Cement 3.25 MTPA to 4.0 MTPA</td> <td>2013-2014/CPM/1935 Dated : 25/02/2014</td> <td>21/02/2014 to 31/01/2017</td> </tr> <tr> <td>Consent to Operate of Air and Water Act for Lime Stone Mines (9.10 MTPA)</td> <td>2014-2015/Mines/2119 Dated:22/05/2014</td> <td>22/05/2014 to 30/04/2017</td> </tr> <tr> <td>Authorization for operating a facility for collection,Disposal,Generation, Storage of Bio-Medical Wastes of 10 Bed Hospital</td> <td>BMW/2014- 2015/Chittorgarh/BMW/6 Dated : 25/08/2014</td> <td>20/08/2014 to 31/07/2017</td> </tr> <tr> <td>Authorization for operating a facility for collection,Disposal,Generation, Storage ,Treatment of Hazardous Waste (Cat. 5.1 &amp; 5.2)</td> <td>RPCB/HWM/2012- 2013/SWMC/HSW/213</td> <td>04/10/2012 to 30/09/2017</td> </tr> <tr> <td>Consent to Operate of Air &amp; Water Act for Fly Ash handling system at KATPP.</td> <td>2016-2017/CPM/4574 Dated : 10/08/2016</td> <td>01/08/2016 to 31/07/2019</td> </tr> <tr> <td>Consent To Operate of Waste Heat recovery Boiler Plant (WHRB) L-I 9.0MW</td> <td>2015-16/CPM/3466 Dated : 09/03/16</td> <td>09/03/2016 to 28/02/2019</td> </tr> </tbody> </table>	Description	Consent/Authorization No.	Validity Period	Water Consent for Sewage Treatment Plant (450KLD)	2014-2015/CPM /2148 dtd.11.02.2015	1/02/2015 to 31/01/2018	Air and Water Consent for CPP (40MW)	2014-2015/CPM/2150 dtd. 11.02.2015	1/02/2015 to 31/01/2018	Consent to Operate of Air & Water Act for Cement Plant L-I Up gradation Capacity Expansion Clinker 2.0MTPA to 3.0 MTPA & Cement 3.25 MTPA to 4.0 MTPA	2013-2014/CPM/1935 Dated : 25/02/2014	21/02/2014 to 31/01/2017	Consent to Operate of Air and Water Act for Lime Stone Mines (9.10 MTPA)	2014-2015/Mines/2119 Dated:22/05/2014	22/05/2014 to 30/04/2017	Authorization for operating a facility for collection,Disposal,Generation, Storage of Bio-Medical Wastes of 10 Bed Hospital	BMW/2014- 2015/Chittorgarh/BMW/6 Dated : 25/08/2014	20/08/2014 to 31/07/2017	Authorization for operating a facility for collection,Disposal,Generation, Storage ,Treatment of Hazardous Waste (Cat. 5.1 & 5.2)	RPCB/HWM/2012- 2013/SWMC/HSW/213	04/10/2012 to 30/09/2017	Consent to Operate of Air & Water Act for Fly Ash handling system at KATPP.	2016-2017/CPM/4574 Dated : 10/08/2016	01/08/2016 to 31/07/2019	Consent To Operate of Waste Heat recovery Boiler Plant (WHRB) L-I 9.0MW	2015-16/CPM/3466 Dated : 09/03/16	09/03/2016 to 28/02/2019
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ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry	Assured to Complying																											
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> May 1993 and standards prescribed from time to time. The RSPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Complied, The process is fully interlocking when in case of emission level exceeds the limit the process can be automatically stopped.																											
iv	The overall noise levels in and around the plant	Complied,																											

**Wonder Cement Ltd.**

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	area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silences, enclosures etc on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under environmental (Protection) Act 1986 Rules, 1989 viz.75dBA (day time) and 70 dBA (night time)	We have been carried out all control measures for noise pollution control and Carried out regular monitoring at Ambient air, Work zone & Mining equipment's. In-house monitoring report mentions above table no 10.1 & Third party monitoring results are enclosed as <b>Annexure-8.</b>
v	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied, We are carried adequate occupational health checkup programme regularly including lung function test at our well established Hospital. We are carried out Pre-placement & Periodic Medical checkup for all workers. We carried out regularly monitoring of Personal Dust exposure for packing plant & Mines operators. Third party Monitoring Report of period <b>Apr-16 to Sept-16</b> is enclosed as <b>Annexure-9.</b>
vi	All the environment management measures given in the EIA/EMP shall be implemented and complied with.	Complied, All the environment management measures given in the EIA/EMP are being implemented
vii	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied,
viii	Proper housekeeping and adequate occupational health program shall be taken up as per the Factory Act.	Complied, Proper housekeeping is being maintained and adequate occupational health checkup Programme is carried out regularly.
ix	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied, we are taking action to implement all measures recommended in the EIA report. The status of CSR expenditure is mentioned above table no. 12.1.
x	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive	Complied, We have a separate Environment Management Cell for Environment monitoring & Management.
xi	The requisite funds shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and	Complying with, Expenditure on Environment Management of Cement Plant L-I, L-II, LS mine, STP & CTPP

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	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 purpose.	are being submitted on yearly basis.
xii	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted & Complied
xiii	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/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 web site of the company by the proponent.	Complied, The copy of Environment Clearance has been submitted to concern Panchayat, Zila Parishad/Municipal Corporation of vide letter dated 13.08.2012.
xiv	The project proponent shall upload the status of compliance of the stipulated environment 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 MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied,  We have been uploaded Point wise reply of EC Compliance & Monitoring data on company's website <a href="http://www.wondercement.com">www.wondercement.com</a> .
xv	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	Complied,  Six monthly reports are regularly submitted to Regional Office of this Ministry at Lucknow/ CPCB/RSPCB.

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	The regional Office of this Ministry at Lucknow /CPCB/RSPCB shall monitor the stipulated conditions.	
xvi.	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 compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Complied, Environment Statement report of year 2015-16 was submitted on dated 26/09/2016. A copy as enclosed above <b>Annexure-7.</b>
xvii	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Rajasthan State Pollution Control Board 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 should 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 at Lucknow.	Complied, In accordance with the general conditions of EC Letter we have been published the information In two local newspapers namely "Rajasthan Patrika" & " Danik Bhaskar" dated 20.06.2008. & a copy of the same has been submitted to Kind your office.
9	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted,
10	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted
11	The above conditions shall be enforced, inter-alia under the provisions of the Water	Complied,

**Wonder Cement Ltd.**

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<p>(Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.</p>	
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**Pradeep Kumar Jain**  
**HOD (QC & ENV)**