

SPEED-POST

ACL/DCW/MOEF/2019-20/

Date: 15/05/2020

The Additional Principal Chief Conservator of Forest
Ministry of Environment, Forest and Climate Change
Regional Office-South Eastern Zone
1st and 2nd Floor, HEPC Building
NO.34, Cathedral Garden Road
Nungambakkam, Chennai-600034(Tamil Nadu State)


Sub: Six Monthly Environment Clearance Compliance report (October 2019 to March 2020) granted by MoEF vide letter no.F.No.-J-11011/719/2007-IA II (I) Dated 20th December 2007.

Dear Sir,

With reference to above, we are enclosing herewith Six Monthly EC Compliance report of Durga Cement Works (Plant & Mines), a unit of Andhra Cements Limited for the period from October 2019 to March 2020 for your kind information and reference please.

We would request you to arrange for sending acknowledgement for this letter for our reference.
Thanking you,

Yours faithfully
For **DURGA CEMENT WORKS**
(A Unit of Andhra Cements Limited)


(N.B.Singh)
Advisor-Technical

Encl: As above
Copy to:

The Member Secretary
AP Pollution Control Board
Head office,D.No.33-28-14D/2
Near Sunrise Hospital, Pushpa Hotel Centre
Chalamavari Street, Kasturibaipet, Vijayawada-520010 (AP State)

The Director,
Ministry of Environment, Forest and Climate Change
Regional Office-South Eastern Zone 1st and 2nd Floor,
HEPC Building NO.34, Cathedral Garden Road
Nungambakkam, Chennai-600034(Tamil Nadu State)

The Scientist & In charge
Central Pollution Control Board, 1th & 2nd Floor, Nisarga Bhavan
A-Block, Thimmaiah Main Road, 7th D Cross, Shivanagar opp.
Pushpanjali Therature, Bengaluru, (Karnataka State)

The Environment Engineer
Regional Office, AP Pollution Control Board,
Door No.4-5-4/5C (EAST), Navbharat Nagar, Ring Road,
Guntur-522007, (A P State)

Name of the Project: : Durga Cement Works
 A Unit of Andhra Cements Limited
 Gamalapadu (V), Dachepalli (M)
 Guntur District, Andhra Pradesh
 Pin- 522414

Project Code: 02TS282


Clearance Letter No. : J-11011/719/2007-4A II (I) dated 20.12.2007.

Period of Compliance : October 2019 to March 2020.

Specific Conditions:																																													
S. No.	Compliance Conditions	Compliance Status																																											
I.	Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50 Mg/Nm ³ by installing adequate air pollution control system and data submitted to the Ministry's Regional Office at Bangalore, A.P. Pollution Control Board and CPCB regularly.	<p>Continuous monitoring system to monitor gaseous emissions through stacks has been working and online real time monitoring data is being transmitted to APPCB & CPCB Server & Display board at factory gate regularly.</p> <p>Air pollution control equipments like RABH installed in Kiln & Raw Mill, Bag filter installed in Coal Mill, ESP installed in Cooler. Bag filters installed in Cement Mills.</p> <p>SPM level is maintained within prescribed standard limit. Data is being submitted to Ministry's Regional Office at Chennai, A.P. Pollution Control Board (APPCB) and CPCB regularly.</p> <p>Stack monitoring report from October 2019 to March 2020 furnished as underneath:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6">Stack Emission monitoring report</th> </tr> <tr> <th colspan="6">October 2019 to March 2020</th> </tr> <tr> <th>Stack</th> <th>Kiln & Raw Mill(RABH)</th> <th>Cooler (ESP)</th> <th>Coal Mill</th> <th>Cement Mill-1</th> <th>Cement Mill-2</th> </tr> <tr> <th>Parameter</th> <th colspan="5">Particulate Matter (mg/Nm³)</th> </tr> </thead> <tbody> <tr> <td>Max.</td> <td>18.14</td> <td>26.21</td> <td>22.53</td> <td>18.98</td> <td>24.27</td> </tr> <tr> <td>Min.</td> <td>15.68</td> <td>24.34</td> <td>21.42</td> <td>15.87</td> <td>14.88</td> </tr> <tr> <td>Avg.</td> <td>17.41</td> <td>25.28</td> <td>21.87</td> <td>18.08</td> <td>18.98</td> </tr> </tbody> </table>		Stack Emission monitoring report						October 2019 to March 2020						Stack	Kiln & Raw Mill(RABH)	Cooler (ESP)	Coal Mill	Cement Mill-1	Cement Mill-2	Parameter	Particulate Matter (mg/Nm ³)					Max.	18.14	26.21	22.53	18.98	24.27	Min.	15.68	24.34	21.42	15.87	14.88	Avg.	17.41	25.28	21.87	18.08	18.98
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II.	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.	<p>Total 60 Nos. of Dust collection and extraction system (Bag filters) have been installed to control fugitive dust emissions at various transfer points i.e., Raw Mill handling (unloading, conveying, transporting stacking) bagging and packing areas etc.</p> <p>a) 99.9% high efficiency bag filter installed in Crusher. b) All conveyors are covered. c) Covered sheds have been provided for storage of raw material such as laterite, coal, gypsum. d) Cement, Clinker and Fly ash are stored in silos. e) Pneumatic system is being used for fly ash handling.</p>																																											

iii.	Secondary fugitive emissions 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 and data submitted to the Ministry's Regional Office at Bangalore, CPCB and APPCB.	The secondary fugitive emissions have been controlled by providing dust collectors at all transfer points, water sprinklers, covered material storage and silos. Total 40 Nos. of water sprinklers have installed at identified emission points to control fugitive emission. Ambient Air quality Monitoring as per the guidelines of CPCB regularly monitored and data submitted to the Ministry's Regional Office at Bangalore, CPCB and APPCB.																																																																																																																																		
iv.	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 Ministry of Environment and Forests and its Regional office, Bangalore.	The Director of Mines & Geology, Ibrahimpatnam accorded permission for empanel of agencies to carry out DGPS Survey of all Mining leases in Guntur District was allotted to M/s Geotrax International services, Hyderabad for conducting DGPS Survey, after survey work has been completed reports to be submitted to Ministry of Environment & Forests, and its Regional office, Bangalore.																																																																																																																																		
v.	Regular water sprinkling shall be carried out in critical areas prone to 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.	<p>Regular water sprinkling is being carried out in all identified air pollution areas, to sustain the Ambient Air Quality as per norms prescribed by the CPCB/APPCB.</p> <p>AAQ Monitoring data of Cement Plant & Limestone Mines is furnished as underneath:</p> <table border="1" data-bbox="715 779 1439 1447"> <thead> <tr> <th colspan="5">Ambient Air Quality Monitoring Report</th> </tr> <tr> <th colspan="5">October, 2019 to March, 2020</th> </tr> <tr> <th>Location - (1)</th> <th colspan="4">Near Mine Pit (Cross wind)</th> </tr> <tr> <th>Parameter</th> <th>PM_{2.5}</th> <th>PM₁₀</th> <th>SO₂</th> <th>NO₂</th> </tr> <tr> <th>Concentration</th> <th colspan="4">µg/m³</th> </tr> </thead> <tbody> <tr> <td>Maximum</td> <td>32.98</td> <td>65.06</td> <td>11.11</td> <td>12.09</td> </tr> <tr> <td>Minimum</td> <td>24.32</td> <td>49.96</td> <td>5.06</td> <td>5.66</td> </tr> <tr> <td>Average</td> <td>28.56</td> <td>57.47</td> <td>8.58</td> <td>8.65</td> </tr> <tr> <th>Location - (2)</th> <th colspan="4">Near Naguleru River Pump House (Cross Wind)</th> </tr> <tr> <th>Parameter</th> <th>PM_{2.5}</th> <th>PM₁₀</th> <th>SO₂</th> <th>NO₂</th> </tr> <tr> <th>Concentration</th> <th colspan="4">µg/m³</th> </tr> <tr> <td>Maximum</td> <td>30.46</td> <td>65.50</td> <td>8.77</td> <td>11.90</td> </tr> <tr> <td>Minimum</td> <td>22.19</td> <td>45.31</td> <td>2.72</td> <td>4.82</td> </tr> <tr> <td>Average</td> <td>26.27</td> <td>55.41</td> <td>5.65</td> <td>8.32</td> </tr> <tr> <th>Location - (3)</th> <th colspan="4">Near CPP (Towards Gamalapadu Village) UP Wind</th> </tr> <tr> <th>Parameter</th> <th>PM_{2.5}</th> <th>PM₁₀</th> <th>SO₂</th> <th>NO₂</th> </tr> <tr> <th>Concentration</th> <th colspan="4">µg/m³</th> </tr> <tr> <td>Maximum</td> <td>31.88</td> <td>67.18</td> <td>9.89</td> <td>15.41</td> </tr> <tr> <td>Minimum</td> <td>23.88</td> <td>56.45</td> <td>3.26</td> <td>6.27</td> </tr> <tr> <td>Average</td> <td>27.84</td> <td>62.01</td> <td>6.61</td> <td>10.71</td> </tr> <tr> <th>Location - (4)</th> <th colspan="4">Colony area (Towards Srinagar Village) Down Wind</th> </tr> <tr> <th>Parameter</th> <th>PM_{2.5}</th> <th>PM₁₀</th> <th>SO₂</th> <th>NO₂</th> </tr> <tr> <th>Concentration</th> <th colspan="4">µg/m³</th> </tr> <tr> <td>Maximum</td> <td>26.55</td> <td>63.53</td> <td>12.04</td> <td>11.25</td> </tr> <tr> <td>Minimum</td> <td>21.17</td> <td>46.82</td> <td>1.29</td> <td>4.47</td> </tr> <tr> <td>Average</td> <td>23.78</td> <td>55.49</td> <td>6.86</td> <td>7.84</td> </tr> </tbody> </table>	Ambient Air Quality Monitoring Report					October, 2019 to March, 2020					Location - (1)	Near Mine Pit (Cross wind)				Parameter	PM _{2.5}	PM ₁₀	SO ₂	NO ₂	Concentration	µg/m ³				Maximum	32.98	65.06	11.11	12.09	Minimum	24.32	49.96	5.06	5.66	Average	28.56	57.47	8.58	8.65	Location - (2)	Near Naguleru River Pump House (Cross Wind)				Parameter	PM _{2.5}	PM ₁₀	SO ₂	NO ₂	Concentration	µg/m ³				Maximum	30.46	65.50	8.77	11.90	Minimum	22.19	45.31	2.72	4.82	Average	26.27	55.41	5.65	8.32	Location - (3)	Near CPP (Towards Gamalapadu Village) UP Wind				Parameter	PM _{2.5}	PM ₁₀	SO ₂	NO ₂	Concentration	µg/m ³				Maximum	31.88	67.18	9.89	15.41	Minimum	23.88	56.45	3.26	6.27	Average	27.84	62.01	6.61	10.71	Location - (4)	Colony area (Towards Srinagar Village) Down Wind				Parameter	PM _{2.5}	PM ₁₀	SO ₂	NO ₂	Concentration	µg/m ³				Maximum	26.55	63.53	12.04	11.25	Minimum	21.17	46.82	1.29	4.47	Average	23.78	55.49	6.86	7.84
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vi.	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.	Being complied by taking suitable measures for maintenance of vehicles used in Mining operations and in transportation of Mineral.																																																																																																																																		

VII.	Asphalting/concreting of roads and water spray all around the stockyard and Loading/unloading areas in the cement plant shall be carried out to control fugitive emissions.	<p>Asphalting / concreting of roads all around the plants have been carried out as a continuous process. Water spray has regularly carried out on the roads through water tankers to control fugitive emission.</p> <p>List of water sprinklers installed in plant as underneath:</p> <table border="1" data-bbox="742 309 1353 947"> <thead> <tr> <th>S. No.</th> <th>Area</th> <th>Location</th> <th>No. of Points</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1</td> <td rowspan="4">Limestone Crusher</td> <td>Limestone Dump Hopper</td> <td>2</td> </tr> <tr> <td>Crusher limo stone carry Belt conveyor (211-BC2)</td> <td>2</td> </tr> <tr> <td>Limestone - Stacker Belt 211-BC4</td> <td>2</td> </tr> <tr> <td>Limestone - Boom belt</td> <td>1</td> </tr> <tr> <td>2</td> <td>Clinker Silo Area</td> <td>Near BC 5 Belt</td> <td>1</td> </tr> <tr> <td rowspan="3">3</td> <td rowspan="3">Raw Mill Area</td> <td>Laterite feeding belt conveyor</td> <td>1</td> </tr> <tr> <td>Weigh feeders</td> <td>2</td> </tr> <tr> <td>RABH side garden</td> <td>8</td> </tr> <tr> <td rowspan="2">4</td> <td rowspan="2">Kin</td> <td>Drag Chain No.1</td> <td>1</td> </tr> <tr> <td>Drag Chain No.2</td> <td>2</td> </tr> <tr> <td rowspan="6">5</td> <td rowspan="6">Coal CM</td> <td>Coal bulk receiving Unit - CBRU</td> <td>1</td> </tr> <tr> <td>Coal feeding belt - BC</td> <td>1</td> </tr> <tr> <td>Coal Stacker Belt</td> <td>3</td> </tr> <tr> <td>Coal Reclaimer belt</td> <td>1</td> </tr> <tr> <td>Coal yard</td> <td>2</td> </tr> <tr> <td>Coal Mill</td> <td>1</td> </tr> <tr> <td rowspan="3">6</td> <td rowspan="3">Clinker feeding</td> <td>Clinker feeding - (DBC-1)</td> <td>1</td> </tr> <tr> <td>Clinker feeding - (DBC-2)</td> <td>1</td> </tr> <tr> <td>Clinker feeding belt conveyor #C4</td> <td>1</td> </tr> <tr> <td>7</td> <td>Cement Mill</td> <td>Shift Office</td> <td>2</td> </tr> <tr> <td>8</td> <td>Factory Gate - 2</td> <td>Dispatch Office</td> <td>1</td> </tr> <tr> <td rowspan="2">9</td> <td rowspan="2">Factory Gate - 1</td> <td>Temple</td> <td>2</td> </tr> <tr> <td>Road side</td> <td>3</td> </tr> <tr> <td colspan="3" style="text-align: center;">Total</td> <td>42</td> </tr> </tbody> </table>	S. No.	Area	Location	No. of Points	1	Limestone Crusher	Limestone Dump Hopper	2	Crusher limo stone carry Belt conveyor (211-BC2)	2	Limestone - Stacker Belt 211-BC4	2	Limestone - Boom belt	1	2	Clinker Silo Area	Near BC 5 Belt	1	3	Raw Mill Area	Laterite feeding belt conveyor	1	Weigh feeders	2	RABH side garden	8	4	Kin	Drag Chain No.1	1	Drag Chain No.2	2	5	Coal CM	Coal bulk receiving Unit - CBRU	1	Coal feeding belt - BC	1	Coal Stacker Belt	3	Coal Reclaimer belt	1	Coal yard	2	Coal Mill	1	6	Clinker feeding	Clinker feeding - (DBC-1)	1	Clinker feeding - (DBC-2)	1	Clinker feeding belt conveyor #C4	1	7	Cement Mill	Shift Office	2	8	Factory Gate - 2	Dispatch Office	1	9	Factory Gate - 1	Temple	2	Road side	3	Total			42
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VIII.	Total ground water requirement for cement plant and Mining shall not exceed 420 and 60 m ³ /day (including 56 m ³ /day mine water) respectively. All the treated wastewater shall be recycled and reused in the process and/or for ash quenching, 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.	Water consumption is maintained as per the APCCB limits. No process wastewater being discharged outside the factory premises and 'zero' discharge is maintained.																																																																								
IX.	'Permission' for the drawl of ground water from SGWB / CGWA shall be obtained. Mined out area shall be developed as artificial reservoir. The water stored in the artificial reservoir made in the mine pit shall be used maximum to reduce ground water consumption.	Permission for the drawl of ground water obtained from Andhra Pradesh Ground Water Department Ref. Lr.No.2 /ACL/HO/2007- Dated 01.09.2007 Water collected in artificial reservoir in the Mine's pit is being used to minimize ground water consumption.																																																																								
X.	Sewage treatment plant (STP) shall be installed for the colony. Treated domestic effluent shall be used for green belt development 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	Sewage Treatment Plant of capacity 300 KLD has been working for the treatment of sewage water of colony and plant. Quality of treated water is within the norms. Treated water is being used in gardening and dust suppression. Sludge of STP is being used as manure. Bio-degradable and non-biodegradable waste is being treated as directed.																																																																								

	<p>non-biodegradable waste shall be land filled at identified sites. ETP should also be provided for workshop and mineral separation plant wastewater.</p>	<div style="text-align: right;">  </div> <p>STARTECH LABS PVT. LTD. <small>Plot No. 3451, Outer Ring Road, 1st Stage, 1st Cross, 1st Mile, 8th Cross, 9th Cross, Outer Ring Road, Bangalore, Karnataka 560088, India Tel: +91 80 4242 4242, 42424242, 42424242 Email: info@startechlabs.com Website: www.startechlabs.com</small></p> <p style="text-align: center;">TEST REPORT</p> <table border="1" style="width: 100%;"> <tr> <td colspan="2">Name & Address of the Customer:</td> <td colspan="2">Prod. Ref No.: ST/2018/1310/19/0</td> </tr> <tr> <td colspan="2">M/S Sangee Cement Works, A Unit of Sangee Cement Ltd., Bangalore, Deventy Road, Deyarpet, A.P.</td> <td colspan="2">Anal. Order no.: 12/2018 Anal. Date no.: 17/02/18 Date of Report: 17/02/18</td> </tr> </table> <p>SAMPLE DETAILS</p> <table border="1" style="width: 100%;"> <tr> <td>Name of Sample: ETP Outlet Water</td> <td>Sampling Details: All</td> </tr> <tr> <td>Batch No.: ---</td> <td></td> </tr> <tr> <td>Sample Qty: 100</td> <td></td> </tr> <tr> <td>Date of Registration: 12/02/18</td> <td></td> </tr> </table> <p>RESULTS</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>S. No.</th> <th>Tests</th> <th>Units</th> <th>Methods</th> <th>Results</th> <th>Limits As per IS/ISIRI Standards</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pH @ Temperature 20°C</td> <td>---</td> <td>IS 3026</td> <td>7.14 @ 24°C</td> <td>6.5-8.5</td> </tr> <tr> <td>2</td> <td>Color</td> <td>Platin</td> <td>IS 3026</td> <td>1</td> <td>---</td> </tr> <tr> <td>3</td> <td>Total Solids</td> <td>mg/L</td> <td>IS 3026</td> <td>260</td> <td>---</td> </tr> <tr> <td>4</td> <td>Total Dissolved Solids</td> <td>mg/L</td> <td>IS 3026</td> <td>220</td> <td>7100</td> </tr> <tr> <td>5</td> <td>Total Suspended Solids</td> <td>mg/L</td> <td>IS 3026</td> <td>17</td> <td>300</td> </tr> <tr> <td>6</td> <td>Oil & Grease</td> <td>mg/L</td> <td>IS 3026</td> <td>501</td> <td>10</td> </tr> <tr> <td>7</td> <td>Chemical Oxygen Demand</td> <td>mg/L</td> <td>IS 3026</td> <td>28</td> <td>250</td> </tr> <tr> <td>8</td> <td>Biological Oxygen Demand (5 days @ 20°C)</td> <td>mg/L</td> <td>IS 3026</td> <td>8.8</td> <td><10</td> </tr> </tbody> </table> <p><small>Report No: ST/2018/1310/19/0, Effective date: 12/02/2018 Report, Original results recorded</small></p> <p>Prepared by: <i>[Signature]</i> Checked by: <i>[Signature]</i> Authorized signatory: <i>[Signature]</i> <small>(Name & Designation) Date: Place: Bangalore</small></p>	Name & Address of the Customer:		Prod. Ref No.: ST/2018/1310/19/0		M/S Sangee Cement Works, A Unit of Sangee Cement Ltd., Bangalore, Deventy Road, Deyarpet, A.P.		Anal. Order no.: 12/2018 Anal. Date no.: 17/02/18 Date of Report: 17/02/18		Name of Sample: ETP Outlet Water	Sampling Details: All	Batch No.: ---		Sample Qty: 100		Date of Registration: 12/02/18		S. No.	Tests	Units	Methods	Results	Limits As per IS/ISIRI Standards	1	pH @ Temperature 20°C	---	IS 3026	7.14 @ 24°C	6.5-8.5	2	Color	Platin	IS 3026	1	---	3	Total Solids	mg/L	IS 3026	260	---	4	Total Dissolved Solids	mg/L	IS 3026	220	7100	5	Total Suspended Solids	mg/L	IS 3026	17	300	6	Oil & Grease	mg/L	IS 3026	501	10	7	Chemical Oxygen Demand	mg/L	IS 3026	28	250	8	Biological Oxygen Demand (5 days @ 20°C)	mg/L	IS 3026	8.8	<10
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<p>XI.</p>	<p>The project proponent shall ensure that no natural water course shall be obstructed due to any mining operations.</p>	<p>Agreed We ensured that, natural watercourse are not obstructed due to any mining operation.</p>																																																																						
<p>XII.</p>	<p>All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Sludge from domestic sources shall be used as manure for green belt development. Waste oil shall be sold to authorized recyclers / preprocessors only.</p>	<p>Being Complied Systems have been designed and installed for recycling and reuse of the dust collected through pollution control devices. Similarly, sludge from domestic sources has utilized as manure in green belt development. Waste oil is being sold to APPCB authorized recyclers / preprocessors only. Annual return (Form-4) of waste oil along with manifest recently submitted ref. Letter No.: ACL/DCW/ENV/HW/2018-19/25 dt.17.04.2019</p>																																																																						
<p>XIII.</p>	<p>An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.</p>	<p>We have used Pet coke in place of coal in our cement kiln. Provision of use of high calorific hazardous waste shall also be explored.</p>																																																																						
<p>XIV.</p>	<p>Efforts shall be made to use low-grade lime, more fly ash and solid waste in the cement manufacturing.</p>	<p>We are blending low and high grade Limestone to conserve the natural resources. Fly ash is utilizing for manufacturing PPC.</p>																																																																						
<p>XV.</p>	<p>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 Bangalore.</p>	<p>Not applicable, as there is no overburden present in our mine. Limestone is exposed on the surface.</p>																																																																						
<p>XVI.</p>	<p>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 backfilling.</p>	<p>Not applicable, there is no top soil and solid waste in our mine.</p>																																																																						

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 Bangalore on six monthly basis.	There is no overburden, inter burden and other waste generated in our mine. Limestone is being 100% used for cement manufacturing.																																								
XVIII.	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°.	Not applicable, as there is no over burden in our mine.																																								
XIX.	Garland drains shall be constructed to arrest silt and sediment flows from soil. The water so collected shall be used for watering the mine area, haul roads, green belt development etc. The drains shall be regularly de-silted and maintained properly.	Drains have been constructed to collect rain water into Mine's pit and used for watering the mine area, haul roads, green belt development etc. The drains shall be maintained properly.																																								
XX.	Suitable rainwater harvesting and conservation measures to augment groundwater 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.	Being complied Rainwater is being collected into Mine's pit for further use in dust suppression on haul roads and blasted material wetting in mines and plant.																																								
XXI.	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and new piezo meters 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 Bangalore, Central Ground Water Authority and State Ground Water	Ground water level monitoring has carried out at 4 times in a year and water quality analyzed. Monitoring Report of the same has given below. <table border="1" data-bbox="719 1525 1406 1827"> <thead> <tr> <th colspan="5">Ground Water Level Report</th> </tr> <tr> <th>Location</th> <th>Plant Site near Security Main Gate</th> <th>Srinagar Village</th> <th>Ramapuram Village</th> <th>Gamalapadu Village</th> </tr> </thead> <tbody> <tr> <td>Direction</td> <td>S</td> <td>S</td> <td>NW</td> <td>SE</td> </tr> <tr> <td>Distance From Plant</td> <td>-</td> <td>1.5 Km</td> <td>6.0 Km</td> <td>5.0 Km</td> </tr> <tr> <td>Bore Well/ Open Well</td> <td>Bore Well</td> <td>Bore Well</td> <td>Bore Well</td> <td>Bore Well</td> </tr> <tr> <th colspan="5">Depth of Water From Ground Level (Meter)</th> </tr> <tr> <td>Date: 30.11.2019</td> <td>18.2</td> <td>50.4</td> <td>72.4</td> <td>41.1</td> </tr> <tr> <td>Date: 09.03.2020</td> <td>17.7</td> <td>45.5</td> <td>68.2</td> <td>37.1</td> </tr> </tbody> </table>	Ground Water Level Report					Location	Plant Site near Security Main Gate	Srinagar Village	Ramapuram Village	Gamalapadu Village	Direction	S	S	NW	SE	Distance From Plant	-	1.5 Km	6.0 Km	5.0 Km	Bore Well/ Open Well	Bore Well	Bore Well	Bore Well	Bore Well	Depth of Water From Ground Level (Meter)					Date: 30.11.2019	18.2	50.4	72.4	41.1	Date: 09.03.2020	17.7	45.5	68.2	37.1
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	Board, Bangalore.													
XXII.	The project proponent shall take appropriate mitigative measures to prevent pollutions of nearby River and other surface water body, if any.	Not applicable, as no Waste Water generated in our process/plant & mines. Zero discharge is adopted.												
XXIII.	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 daytime only and one bench at a time shall be blasted. The mitigative measures for control of 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>We are adopted wet drilling and dust collection system in drilling machine.</p> <p>Sequential blasting methods are using to control the charge per hole/delay and to minimize the ground vibration, control of fly rocks, and to minimize the formation of boulders.</p> <p>We are monitoring the Ground vibration and air over pressure (Noise) with the help of 'Minimate' instrument and keeping the records of the same.</p> <p>The results are well within the permissible limits specified by DGMS.</p> <p>We have obtained no objection certificate from Chief controller of explosives, in form LE-3 for Explosive Possession and Use. License No:E/HQ/AP/22/93 (E1673)dt.10.02.2017 validity up to dt.31.03.2020.We have applied for renewal of license in Form RE-1 on dated 24/01/2020 (ref: online Inward no. 22607) through portal online.peso.gov.in for the period upto 31/03/2025.</p>												
XXIV.	Out of total 141.574 hectare, Green belt shall be developed in at least 36 ha. (25 %) in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO. In mining, out of 170.22 hectare plantation shall be raised in an area of 46.72 ha. By planting the native species around mining lease area, over burden dumps, around water body, roads etc. in consultation with the local DFO / Agriculture Department. At least, 1,500 trees per year shall be planted with a tree density of 2,000 trees per ha. An action plan shall be submitted in this regard.	<p>Cement plant have 49.0 ha of green belt and additional area is being covered.</p> <p>Our endeavor to complete the plantation drive in mine lease area is affected due to:-</p> <ol style="list-style-type: none"> 1) Rocky area 2) Limestone outcrops all over the mine lease area. 3) Availability of very little area with top soil. Top soil is available as a thin layer in parts of the lease area. <p>However, the greenbelt developed in mine lease area during the reporting period is tabulated below;</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="4">Status of Existing Green Belt</th> </tr> <tr> <th>Total Mines area(Hectares)</th> <th>Total Plantation (Nos.)</th> <th>Total Plantation area(Hectares)</th> <th>Tree Species Planted</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">170.22</td> <td style="text-align: center;">28251</td> <td style="text-align: center;">34.82</td> <td>Rain Trees, Ganuga , Punnaga, Teak Wood,Seetaphalam, Neem , Banyan Trees</td> </tr> </tbody> </table> <p>Period : October, 2019 to March, 2020 Tree Plantation (Nos.) : 515</p>	Status of Existing Green Belt				Total Mines area(Hectares)	Total Plantation (Nos.)	Total Plantation area(Hectares)	Tree Species Planted	170.22	28251	34.82	Rain Trees, Ganuga , Punnaga, Teak Wood,Seetaphalam, Neem , Banyan Trees
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XXV.	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.	Shall be complied, in accordance of the mine closure plan, after completion of mining operation.												
XXVI.	The project proponent shall take all precautionary measures during mining operation for conservation	On our request, Forest department, Government of Andhra Pradesh has studied the impact of our Cement plant and Mines activities on the surrounding reserve forests and have certified												

	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.	vide their letter no 1810/2015/TO dated 18-12-2015 that there is no effect on the existing Flora and Fauna due to existence of M/s Andhra Cements Ltd .
XXVII.	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.	Agreed. Shall be complied.
XXVIII.	Mechanized open casting shall be adopted and no change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	Agreed. Mechanized open cast mining is adopted and we will take prior approval of MOEF&CC for any change in technology or scope.
XXIX.	Consent to Operate shall be obtained from APPCB before starting enhanced production from the mine.	Noted & Agreed.
XXX.	'Permission' of the State Forest Department shall be obtained regarding impact of cement plant and mining activities on the surrounding 6 reserve forests viz. Gamalapadu RF (0.1-0.4 km.), Madinapadu RF (1.2-1.8 km.), DaidaRF (4.7-4.9 km.), Saidulnam RF (3.8-5.0 km.), Ravipahad RF (5.3-6.6 km.) and Warivabad RF (6.2-6.8 km) and all the recommendations shall be followed.	The Cement plant and Mines have been running since 1984. There is no report of any adverse impact of cement plant operation and mining activities on the surrounding 6 reserve forests. All the air-monitoring reports are submitted to APPCB, CPCB, MoEF&CC regularly & emissions are within stipulated norms. .
XXXI.	The company shall obtain necessary 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.	Necessary permissions obtained from IBM. Ref: Letter No. AP /KNL/MP/Lst 9/Hyd.Dt:18.09.2017 Current CFO of Mines: Order No. APPCB/VJA/GTR/16829/HO/CFO/2019 Dt.10.04.2019 validity upto 30.06.2020
XXXII.	Rehabilitation and Resettlement Plan for the project-affected population as per the policy of the State Govt. shall be prepared and implemented.	This is an old plant working since 1984, hence no Rehabilitation and Resettlement involved in this Project.
XXXIII.	Acoustic enclosures shall be provided to control noise wherever necessary. Mine machine shall be	All Mining equipments provided with silencers to control noise emissions. Sharp bits is using with wet drilling to reduce noise of drilling

	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.	machine. Earplug has been provided. Bottom initiation with the help of shock tubes and use millisecond delay detonators to reduce noise by blasting. Acoustic enclosures provided in the plant area wherever applicable.
xxiv.	All the safety norms stipulated by the Director General, Mine & Safety (DGMS) should be implemented.	We are implementing all the safety norms stipulated by DGMS.
B General Conditions :		
i.	The project authority shall adhere to the stipulations made by Andhra Pradesh Pollution Control Board (APPCB) and State Government.	Noted and Agreed.
ii.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Noted and Agreed.
iii.	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the A.P. Pollution Control Board. At no time, the particulate emissions from the cement plant shall exceed APPCB 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.	Being complied Stack emissions are within the norms and inter locking facility also provided.
iv.	On-line Ambient Air Quality Monitoring station shall be installed in downwind direction. 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 APPCB and report submitted to the APPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly.	Three (3) nos. On-line Real Time CAAQM stations have been installed in upwind, downwind and crosswind directions. 3 rd CAAQM Station is at Mines area & Monitoring data is being transmitted to APPCB & CPCB server & display board at factory gate continuously. Four (4) nos. AAQM stations installed at different locations & Air Quality and Stack Emissions and Noise Level measurement is being carried out regularly. Monitoring data are within the stipulated norms of MoEF, CPCB & APPCB. Report is submitted to the APPCB, CPCB and MoEF&CC Regional Office half-yearly. Ref.: Letter No.: ACL/DCW/MOEF/2019-20 Date: 12.11.2019
v.	The company must harvest the rainwater from the rooftops 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.	All the water from the rooftops, storm water drains lead to main drains connecting to the mines water reservoir. The water thus collected and utilized for sprinkling and green belt development.
vi.	The company shall undertake eco development measures including community welfare measures in	We have taken following initiative for Eco development measures including community welfare: 1. Green Belt Development:

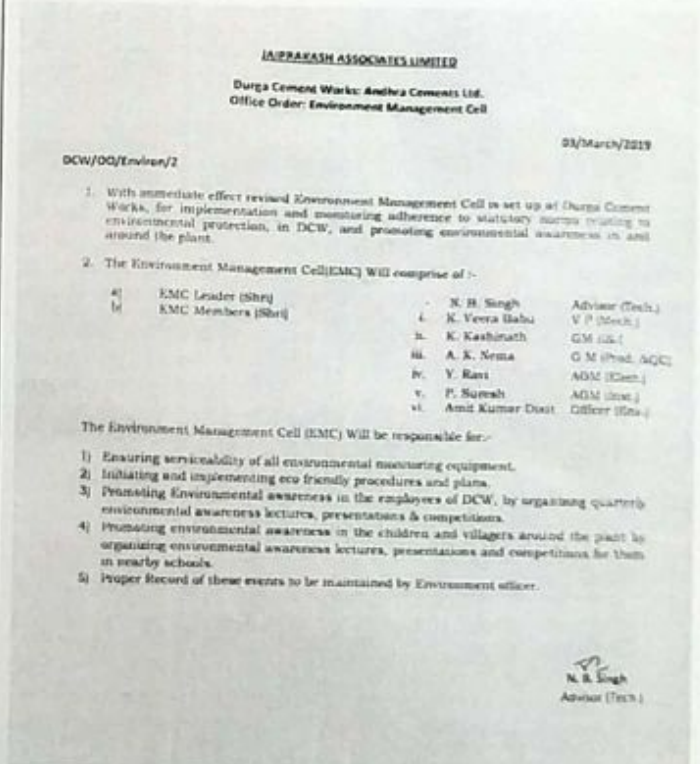
<p>the project area.</p>	<p>(a) Green belt developed in Plant area, Mines area, colony, plant boundary and both side of all the roads area.</p> <p>2. Water Conservation:</p> <p>(a) Construction of Sewage Treatment Plant for Maintain Zero Waste Water Discharge. Treated water is being utilized for specific purposes such as Plantation, dust suppression etc.</p> <p>(b) Installation air-cooled condenser for Captive Power plant, instead of conventional large size Cooling tower.</p> <p>(c) Rain water harvesting done in Mine Pits.</p> <p>3. Solid Waste Management:</p> <p>(a) Practicing principle of 2 R's i.e., Reduce & Reuse</p> <p>(b) All the waste is segregated & kept on the basis on degradability/recyclability, then accordingly is disposed. Bio-degradable waste collected from township & plant area and composted and the manure utilized for horticulture purpose.</p> <p>(c) All the hazardous waste is disposed through the authorized recyclers.</p> <p>(d) Maximum possible utilization of Fly ash to manufacture Portland Pozzolona Cement</p> <p>4. Soil Conservation:</p> <p>Entire cement plant has been constructed on infertile land purchased from "patta lands" of the nearby residents, which is outside the reserved forest. For construction of plant and facilities in no case top fertile soil has been scarified. Rocky terrain had been leveled off for foundations for P & M, Offices & Buildings without any extraneous matter, with the help of excavator /grader only.</p> <p>5. Socio-Economic Benefits:</p> <p>(a) Indirect employment to entrepreneurs</p> <p>(b) Direct employment to local resident</p> <p>(c) Growth of local market in terms of consumables (Domestic & Industrial)</p> <p>(d) Fulfilling CSR & commitment made.</p> <p>(e) Preference to local people for employment</p> <p>(f) Rise in living standards</p>
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VII. The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) 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 dBA (day time) and 70 dBA (night time).

Noise control measures including acoustic hoods, silencers. Enclosures have been provided and Ambient Noise Level Monitoring Report furnished as underneath:

Durga Cement Works (Cement Plant)				
Ambient Noise Level Monitoring Report				
October, 2019 to March, 2020				
Location	1. Colony area		2. Near Time Offices	
Time	Day	Night	Day	Night
Concentration	dB(A)Leq			
Maximum	42.7	38.5	45.8	43.4
Minimum	40.1	37.2	42.4	39.3
Average	41.4	37.9	44.1	41.3
Location	3. Crusher area		4. Raw Mill area	
Time	Day	Night	Day	Night
Concentration	dB(A)Leq			
Maximum	59.1	46	61.2	54
Minimum	55.7	43.2	46.1	42.3
Average	57.5	44.6	53.6	48.2
Location	5. Kiln & Cooler area		6. Coal Mill area	
Time	Day	Night	Day	Night
Concentration	dB(A)Leq			
Maximum	58.3	54.7	56.9	52.6
Minimum	50.3	43.3	51.8	45.2
Average	54.3	49.0	54.4	48.9
Location	7. Cement Mill area		8. Packing Plant area	
Time	Day	Night	Day	Night
Concentration	dB(A)Leq			
Maximum	60.4	57.3	58.3	55.3
Minimum	50.9	48.0	53.2	49.2
Average	55.7	52.6	55.8	52.3

		Durga Cement Works (Limestone Mines)				
		Ambient Noise Level Monitoring Report				
		October, 2019 to March, 2020				
		1. Haulage Road		2. Drilling Point		
Location		Day	Night	Day	Night	
Time						
Concentration		dB(A)Leq				
Maximum		62.4	44.5	58.9	41.3	
Minimum		54.7	37.5	51.7	36.3	
Average		58.6	41.1	55.4	38.8	
		3. Loading Point		4. Mines Office		
Location		Day	Night	Day	Night	
Time						
Concentration		dB(A)Leq				
Maximum		62.5	40.1	44.4	41.8	
Minimum		40.8	35.2	36.5	33.5	
Average		54.0	37.3	40.5	37.2	
VIII.	All recommendations made in the Corporate Responsibility for Environment Protection (CREP) for cement plants shall be implemented.	Being Complied.				
IX.	Proper housekeeping shall be taken up. Regular annual medical examination of all the employees shall be carried out from the occupational health point of view and records maintained.	Proper housekeeping all around the plant area have taken up. Annual Occupational health checkup of the employees regularly carried out and records maintained.				
X.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Environment management cell to carry out various Environment related management and monitoring functions has been set up under the control of Advisor (Tech.).				
XI.	As proposed in EIA/EMP. Rs. 28.00 Crores and Rs. 0.95 Crores earmarked towards the capital cost and recurring cost/annum respectively for environment pollution control measures for the cement plant and Rs. 35.00 Lakhs	As on date, about Rs. 52.44 crores already invested on the air pollution equipments (ie RABH, ESP, Bag House and nuisance bag filters). Funds provided for the maintenance of the above equipment shall not be diverted for any other purpose.				



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	and Rs. 1.5 Lakhs earmarked towards the capital cost and recurring cost/annum respectively for environment pollution control measures for the mine shall be suitably used 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.	
XII.	The Regional Office of this Ministry at Bangalore / CPCB / APPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical Interpretation shall be submitted to them regularly.	Six monthly compliance reports are being submitted regularly recent report submitted with ref. Letter No. ACL/DGW/CPP/MoEF/2019-20/ Dated: 12.11.2019.
XIII.	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Already complied.
XIV.	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 A. P. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . 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 Bangalore.	Already complied.

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