

ANDHRA CEMENTS LIMITED

DURGA CEMENT WORKS

ACL/DCW/CFO/PPP/2020-21/148

Date: 27/05/2021

The Member Secretary
AP Pollution Control Board
Head office, D.No.33-26-14D/2
Near Sunrise Hospital, Pushpa Hotel Centre
Chalamavari Street, Kasturibaipet,
Vijayawada-520010 (AP State)

Sub: Submission of Half Yearly CFO Compliance report- Captive Power Plant-30 MW of Durga Cement works, a unit of Andhra Cements Limited for the period from October, 2020 to March, 2021.

Ref: Consent Order No: APPCB/VJA/GTR/534/HO/2016 Dt.07.05.2016, valid for the period up to 30.04.2021.

Dear Sir,

With reference to above, we are enclosing herewith Half Yearly CFO Compliance report for Captive Power Plant-30 MW of Durga Cement works, a unit of Andhra Cements Limited located at Durapuram, Dachepally(M), Guntur(Dt), Andhra Pradesh State for the period from October, 2020 to March, 2021.

This is for your kind information and request to arrange for acknowledgement, please.

Thanking you.

Yours faithfully
For **Durga Cement Works**
A Unit of Andhra Cements Limited

N.B. Singh

N.B. Singh
Advisor-Technical

Encl: As above

Copy to:
The Environmental Engineer
Regional Office, A.P Pollution Control Board
Door No.4-5-4/5C (EAST), Navbharatnagar,
Ring Road, Guntur-522007, Andhra Pradesh



ANDHRA CEMENTS LIMITED

Regd. Office & : Durga Cement Works, Durgapuram, Srinagar (P.O),
Factory Dachepalli - 522 414. Guntur Dt. Andhra Pradesh
Ph : +91-8649-257428-29, Fax : +91-8649-257449

Name of Project : **M/s Durga Cement Works**
(Captive Power Plant-30 MW),
A unit of Andhra Cements Limited
 Gamalapadu (v),Durgapuram(V),
 Dachepalli (M) ,Guntur District -522414
 Andhra Pradesh

Project Code:- - 02TS282-CPP

Consent Order No. : APPCB/VJA/GTR/534/HO/2016 Dt.07.05.2016, valid for the period up to 30.04.2021

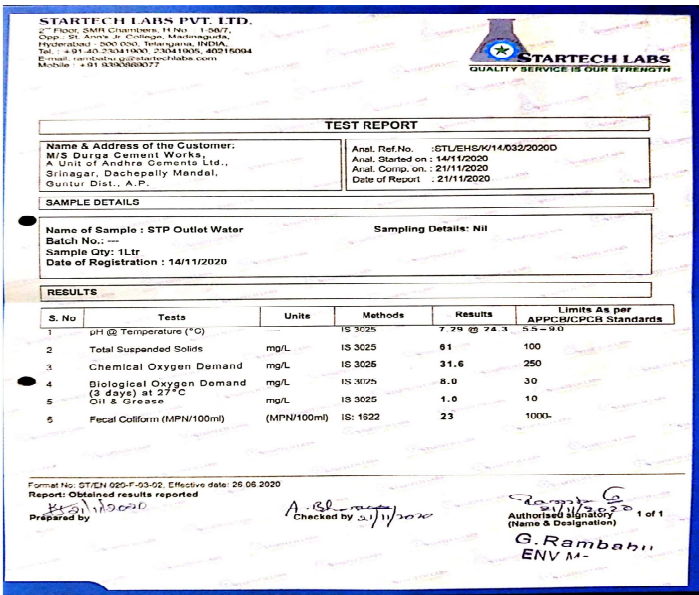
Period of Compliance Report: October, 2020 to March, 2021

Schedule-A		
S. No.	Compliance Condition	Compliance Status
1.	Any up-set condition in any industrial plant/activity of the industry, which results in, increased effluent/emission discharge and /or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge /emission below the limits.	Noted & Agreed.
2.	The industry should carry out analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the board.	Noted & Agreed.
3.	All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.	Noted & Agreed.
4.	The industry should put up two sign boards (6x4 ft. each) at publicity visible places at the main gate indicating the products, effluents discharge standards ,air emission standards, hazardous waste quantities and validity of CFO an exhibit the CFO order at a prominent place in the factory premises.	Noted & Agreed.
5.	Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review /revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	Noted & Agreed.
6.	The industry shell file water cess returns in Form -I as required under sections (5) of Water (Prevention and Control of Pollution)Cess Act,1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water cess as per the assessment order as and when issued by Board	Being Complied. Water Cess returns in Form-1 is being submitted regularly to APPCB Vijayawada and APPCB Regional office, Guntur on monthly basis. Our ref. Letter No. DCW/P&QC/ENV/2020/ Dt.03/01/2020.
7.	The applicant shall submit Environment Statement in Form V before 30th September every year as per rule No. 14 of E (P) Rules, 1986 & amendments thereof.	Environment Statement is being regularly submitted to CPCB, APPCB & Regional office of MoEF, GOI. Annual Environmental Statement Report (Form-V) submitted. Our ref. Letter No. ACL/DCW/ENV/2020/40 Dt.19/09/2020

8.	<p>The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.</p> <p>The should immediately submit the revised application for consent to this board in the event of any change in the raw material used , processes employed , quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises /lend/sell/transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.</p>	<p>Being Complied. Consent Order No. APPCB/VJA/GTR/534/HO/2016 Dt.07.05.2016, valid for the period up to 30.04.2021.</p>
9.	<p>Any person aggrieved by an order made by the State Board under Section, 25,Section 26, Section 27 of Water Act,1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules,1976 and Air Rules 1982,to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act,1981.</p>	<p>Noted & Agreed.</p>

Schedule - B

Water Pollution:

1.	<p>The effluent discharged should comply with the tolerance limits mentioned below:</p> <table border="1" data-bbox="175 1388 726 1971"> <thead> <tr> <th>Outlet</th> <th>Parameter</th> <th>Limiting Standards (mg/l except for pH)</th> </tr> </thead> <tbody> <tr> <td rowspan="10">1.</td> <td>pH</td> <td>5.50 - 9.00</td> </tr> <tr> <td>Suspended Solids (at 103 -105 °C)</td> <td>100</td> </tr> <tr> <td>Bio Chemical Oxygen Demand (BOD)</td> <td>100</td> </tr> <tr> <td>Oil & Grease</td> <td>10</td> </tr> <tr> <td>Cooper (Total)</td> <td>1.0</td> </tr> <tr> <td>Iron (Total)</td> <td>1.0</td> </tr> <tr> <td>Free available Chlorine</td> <td>0.5</td> </tr> <tr> <td>Zinc</td> <td>1.0</td> </tr> <tr> <td>Chromium (Total)</td> <td>0.2</td> </tr> <tr> <td>Phosphate</td> <td>5.0</td> </tr> <tr> <td rowspan="3">2.</td> <td>pH</td> <td>5.50 - 9.00</td> </tr> <tr> <td>Suspended Solids (at 103 -105 °C)</td> <td>200</td> </tr> <tr> <td>Bio Chemical Oxygen Demand (BOD)</td> <td>100</td> </tr> <tr> <td></td> <td>Oil & Grease</td> <td>10</td> </tr> </tbody> </table>	Outlet	Parameter	Limiting Standards (mg/l except for pH)	1.	pH	5.50 - 9.00	Suspended Solids (at 103 -105 °C)	100	Bio Chemical Oxygen Demand (BOD)	100	Oil & Grease	10	Cooper (Total)	1.0	Iron (Total)	1.0	Free available Chlorine	0.5	Zinc	1.0	Chromium (Total)	0.2	Phosphate	5.0	2.	pH	5.50 - 9.00	Suspended Solids (at 103 -105 °C)	200	Bio Chemical Oxygen Demand (BOD)	100		Oil & Grease	10	<p>The Treatment Plants have been installed to maintain the prescribed tolerance limits.</p>  <p>STARTECH LABS PVT. LTD. C-7 Floor, SMR Chambers, H No. 1-50/7, Opp: St. Anne's College, Madhavapeta, Hyderabad - 500 080, Telangana, INDIA. Tel: +91 40 33381000, 33381005, 402115004 E-mail: info@startech-labs.com Mobile: +91 9348880377</p> <p align="right">STARTECH LABS QUALITY SERVICE IS OUR STRATEGY</p> <p align="center">TEST REPORT</p> <p>Name & Address of the Customer: M/S Durga Cement Works A Unit of Andhra Cement Ltd., Srinagar, Dacheppally Mandal, Guntur Dist., A.P.</p> <p>Anal. Ref.No.: ST/VEHS/K/14/032/20200 Anal. Started on: 14/11/2020 Anal. Comp. on: 21/11/2020 Date of Report: 21/11/2020</p> <p>SAMPLE DETAILS</p> <p>Name of Sample: STP Outlet Water Sampling Details: Nil Batch No.: --- Sample Qty: 1LT Date of Registration: 14/11/2020</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Tests</th> <th>Units</th> <th>Methods</th> <th>Results</th> <th>Limits As per APPCB/CPCB Standards</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pH @ Temperature (°C)</td> <td></td> <td>IS 3025</td> <td>7.76 @ 24.3</td> <td>5.5 - 9.0</td> </tr> <tr> <td>2</td> <td>Total Suspended Solids</td> <td>mg/L</td> <td>IS 3025</td> <td>81</td> <td>100</td> </tr> <tr> <td>3</td> <td>Chemical Oxygen Demand</td> <td>mg/L</td> <td>IS 3025</td> <td>31.6</td> <td>250</td> </tr> <tr> <td>4</td> <td>Biological Oxygen Demand (3 days) at 27°C</td> <td>mg/L</td> <td>IS 3025</td> <td>8.0</td> <td>30</td> </tr> <tr> <td>5</td> <td>Oil & Grease</td> <td>mg/L</td> <td>IS 3025</td> <td>1.0</td> <td>10</td> </tr> <tr> <td>5</td> <td>Fecal Coliform (MPN/100ml)</td> <td>(MPN/100ml)</td> <td>IS: 1522</td> <td>23</td> <td>1000-</td> </tr> </tbody> </table> <p>Format No: ST/EN 025-F-03-02, Effective date: 26.06.2020 Report: Obtained results reported Prepared by: <i>[Signature]</i> Checked by: <i>[Signature]</i> Authorized Signatory (Name & Designation): G. Rambabu ENV M-</p>	S. No	Tests	Units	Methods	Results	Limits As per APPCB/CPCB Standards	1	pH @ Temperature (°C)		IS 3025	7.76 @ 24.3	5.5 - 9.0	2	Total Suspended Solids	mg/L	IS 3025	81	100	3	Chemical Oxygen Demand	mg/L	IS 3025	31.6	250	4	Biological Oxygen Demand (3 days) at 27°C	mg/L	IS 3025	8.0	30	5	Oil & Grease	mg/L	IS 3025	1.0	10	5	Fecal Coliform (MPN/100ml)	(MPN/100ml)	IS: 1522	23	1000-
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1.	The source of Water is rain water from Mines pit. The following is the permitted water consumption:		Being complied.
S. No.	Purpose	Quantity in KLD	
1.	Process/Cooling/Boiler makeup	449.4	
2.	Ventilation system	6.1	
3.	Potable water in plant	17.6	
4.	Washings and Sanitation	20.9	
5.	Gardening & Landscaping	14.3	
6.	Water treatment losses	31.9	
7.	Clarifier Sludge	9.8	
Total		550.1 KLD	

Air Pollution:

<p>The emission shall not contain in excess of the prescribed limits mentioned below:</p> <table border="1"> <thead> <tr> <th>Chimney No.</th> <th>Parameter</th> <th>Emission Standards</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Particulate Matter</td> <td>50 mg/Nm³</td> </tr> </tbody> </table> <p>The industry shall comply with ambient air quality standards of PM10 (Particulate Matter Size less than 10µm) -100 µg/m³; PM2.5 (Particulate Matter Size less than 2.5 µm) -60 µg/m³; SO₂ -80µg/m³; NO_x-80µg/m³, outside the factory premises at the periphery of the industry.</p> <p>Standard for other parameters as mentioned in the National Ambient Air quality Standards CPCB Notification No. B-29016/20/90/PCI-I, dt. 18.11.2009.</p> <p>Noise : Day Time Levels (6 AM to 10 PM) -75 dB(A) : Night Time (10 PM to 6 AM) -70 dB(A)</p>	Chimney No.	Parameter	Emission Standards	1	Particulate Matter	50 mg/Nm ³	<p>Electrostatic Precipitator (ESP) installed for the control of particulate matter emission from stack height which is connected with AFBC Boiler. Stack emission not exceeding 50 mg/Nm³. Ambient Air Quality & Ambient Noise Level is being regularly monitored and results are within the limit of the stipulated Standards.</p> <p>Monitoring of Stack Emissions and Ambient Air Quality are not being carried out due to stoppage of plant in 1st week of February 2020.</p> <p>Ambient Noise Level Monitoring Report furnished as underneath:</p>																																																																		
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2.	The Industry shall complete the installation of Online Stack Emission Monitoring System within two months and connect the same to the Board website.		<p>Being Complied.</p> <p>Online CEMS data is being transmitted to APPCB &CPCB Server on regular basis.</p>																																																																						

3.	Ambient Air Quality Monitoring stations shall be provided in core and buffer zone in down windward direction in consultation with concerned RO of APPCB for monitoring of PM _{2.5} , PM ₁₀ , SO ₂ , NO _x .	4 Nos. Ambient Air Quality physical monitoring stations already installed around CPP in the existing Cement plant area for checking of (PM _{2.5} , PM ₁₀ , SO ₂ , and NO _x) Ambient Air Quality parameters.																																																																
4.	Two continuous Ambient Air Quality Monitoring (CAAQM) stations (up wind and down wind directions) shall be installed and data shall be connected to Board website.	Being complied. 3 Nos. of On-line Real Time CAAQM stations installed at Up wind, Down wind & Cross wind directions. Real time CAAQM data is being regularly transmitted to APPCB & CPCB Server and to the display board at factory main gate.																																																																
5.	The industry shall take suitable measures to control fugitive emissions.	Regular water sprinkling is being carried out using water tankers at all pollution prone areas, for sustaining the air quality norms. List of Pollution control equipments (Bag Filters) installed to control fugitive dust emissions at various transfer points is given below.																																																																
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General:

6.	The industry shall maintain flow meters preferably Electro Magnetic flow meters with totalisers for water and effluent quantity measurements for different streams of effluents and different categories of water uses stipulated in this order.	Electro Magnetic flow meters with totalisers for water and effluent quantity measurements have been installed and records are being maintained for water uses as per conditions stipulated in this order.
7.	The industry install online continuous effluent and emission monitoring systems and connect monitoring system to APPCB/CPCB website as per CPCB directions dated 05.02.2014 / 02.03.2015 and guidelines issued regarding online monitoring systems issued from time to time.	Online continuous emission monitoring system has been installed. Online CEMS data is being transmitted online to APPCB & CPCB Server on regular basis.
8.	The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board: a. Daily production details(ER –I Central Excise Returns). b. Quantity of effluents generated, treated, recycled/reused and disposed. c. Log Books for pollution control systems. d. Characteristics of ambient air quality,	We are maintaining the similar records as required and the same are available for the inspecting officers of the Board. (presently plant is not in operation)

	<p>effluent and emissions.</p> <p>e. Hazardous /non hazardous solid waste generated and disposed.</p> <p>f. Inspection Book.</p> <p>g. Manifest copies of hazardous waste.</p>																	
9.	The industry shall use imported coal only and shall submit periodical compliance to the RO, Guntur on the use of imported coal.	Being complied.																
10.	The industry shall develop green belt in all the vacant places. In future, access green belt over and above 33% of total area can be utilized for industrial activity as per requirement of industry.	<p>Total land area : 3 ha.</p> <p>Total plantation area : 1.9 ha</p> <p>Species planted : Dubai, kanuga & Neem.</p> <p>Total plantation : 1400 Nos.</p>																
11.	The industry shall consume all the Fly ash generated in the manufacture of cement.	100% of Fly Ash generated from CPP is being used in our existing cement manufacturing unit for production of PPC.																
12.	Fly ash shall be utilized as per the provisions of Fly ash notification, dt. 03.11.2009.	Our Cement plant has 5000 MT Fly ash Silo where all the Fly ash generated is being stored for manufacturing PPC.																
13.	The industry shall comply with provisions of notification, S. O 3305 (E), dt. 07.12.2015 issued by MoEF & CC as applicable.	We are complying all the provisions of notification, S. O 3305 (E), dt. 07.12.2015 issued by MoEF & CC as applicable for our CPP 30 MW.																
14.	The industry shall comply with the directions issued by the Board from time to time.	Noted & Agreed.																
15.	The industry shall comply with standards and directions issued by CPCB/MoEF & CC as and when notifications are issued.	We are intended to comply with standards and directions issued by CPCB/MoEF & CC as and when notifications are issued.																
16.	The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble Court of law.	Noted & Agreed.																
17.	<p>The industry shall dispose solid waste (NON HAZARDOUS) as follows.</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Name of the Solid waste.</th> <th>Quantity</th> <th>Disposal</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Fly Ash</td> <td>207.12 TPD</td> <td>To be used in cement plant.</td> </tr> <tr> <td>2.</td> <td>Bottom Ash</td> <td>51.77 TPD</td> <td>To be used in cement plant.</td> </tr> <tr> <td>3.</td> <td>Sludge</td> <td>1 TPD</td> <td>To be used in as manure for gardening.</td> </tr> </tbody> </table>	S. No.	Name of the Solid waste.	Quantity	Disposal	1.	Fly Ash	207.12 TPD	To be used in cement plant.	2.	Bottom Ash	51.77 TPD	To be used in cement plant.	3.	Sludge	1 TPD	To be used in as manure for gardening.	<p>100% of Fly Ash & Bottom Ash generated from CPP is being used in our existing cement manufacturing unit for production of PPC.</p> <p>Sludge is being used as manure in gardening.</p>
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18.	The industry shall submit compliance report on the conditions mentioned in the consent order every six months to the Regional Office /Zonal Office.	Compliance report on the conditions mentioned in the Consent order is being regularly submitted to APPCB, Regional office Guntur. Ref. Letter No.: ACL/DCW/CFO/PLANT/2020-21/93 dated 15/05/2020.																
Schedule - C																		
1.	All the rules and regulations notified by Ministry of Environment and Forests, Government of India under the E(P) Act, 1986 in respect of management ,handling ,transportation and storage of the Hazardous wastes should be followed.	Noted & Agreed.																
2.	The industry shall not store hazardous waste for more then 90days as per the	Hazardous waste is being stored for a period not exceeding 90 days and record of storage & disposal through recycler																

	Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.	authorized by APPCB are available for inspection.
3.	The industry shall store Used /Waste oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers /dealers on buyback basis.	Used/Waste oil and Used Lead Acid Batteries are being stored in a secured way at storage yard. Used/Waste oil is being disposed through recycler authorized by APPCB. Used Lead Acid Batteries are being sent for disposal to the manufacturers /dealers on buyback basis.
4.	The industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.	Being Complied. We are maintaining 6 Copy manifest system for transportation of waste generated. A copy of Manifest along with annual return in Form 4 submitted to RO of APPCB. Our ref. Letter No.: ACL/DCW/ENV/HW/2019-20 dt.25.05.2020
5.	The industry shall maintain proper records for Hazardous Waste stated in Authorization Form-3 i.e., quantity of Incinerable waste, land disposal waste ,recyclable waste etc., and file annual returns in Form -4 as per Rule 22(2) of the Hazardous Wastes (Management , Handling & Transboundary Movement)Rules ,2008 and amendments thereof.	Being Complied. We have been maintained records for hazardous waste stated in Form-3 for internal. Annual return file in Form-4 along with manifest is being regularly submitted to RO of APPCB. Our ref. Letter No.: ACL/DCW/ENV/HW/2020-21/139 dt.14.04.2021