

Date: 27th November 2021

To

The Deputy Director,
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
Green House Complex,
Gopal Reddy Road,
Vijayawada-520010
Andhra Pradesh.

Dear Sir,

Sub: Submission of Half Yearly Environment Clearance Compliance Report of M/s Dalmia Cement(Bharat)Limited, at Village Chinnakomerla, Mylavaram Mandal of YSR Kadapa District in Andhra Pradesh -Reg.

Ref: File No. J-11011/76/2007- IA.II (I) (T), Dated: 5th April, 2007

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With reference to the subject cited above, we are herewith furnishing the compliance report to stipulated conditions of Environmental Clearance in soft copy for the period of 1st April 2021 to 30th September 2021 of M/s Dalmia Cement (Bharat) Limited, Chinnakomerla village, Mylavaram Mandal, YSR Kadapa of AP-516433.

This is for your kind information and office records please.

Thanking you

Yours faithfully

For Dalmia Cement Bharat Limited,
Authorized Signatory



(K KARUNAKARA RAO)
Plant Head

CC to Environmental Engineer-APPCB, RO-Kadapa

Enclosures: As attached

Dalmia Cement (Bharat) Limited

Chinnakomerla (Village), Mylavaram (Mandal), YSR (Kadapa), District, Andhra Pradesh - 516 433 India
t 08560 272 431 / 434 f08560 272 420 / 421, www.dalmiacement.com, CIN : U65191TN1996PLC035963
Registered Office : Dalmiapuram, Dist, Tiruchirapalli, Tamil Nadu-621 651, India
A **Dalmia Bharat Group** company, www.dalmiabharat.com

**Running Plant Compliance Status of Environment Clearance of Cement Plant
issued vide Letter No. J-11011/76/2007- IA.II (I)(T), Dated: 5th April ,2007 of M/s
Dalmia Cement (Bharat) Ltd.
Half yearly Compliance Report (1st April 2021 to 30th September- 2021)**

A. Specific Conditions

| Sl.No | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|--------|------------------|------|--------|---|-------------------|-----------|---|---|-----------|-----------|---|---|----------------|-----|---|---|-------------|-----------|---|---|--------------------------|------------|----|
| 1 | The gaseous emissions from various units shall conform to the standards prescribed by the concerned state pollution control board (SPCB) or by the ministry, whichever is stringent. Bag filter system shall be provided for flue gas instead of conditioning towers. SPM emission from all the stacks, including CPP will be <50 Mg/Nm ³ . The CPP will be based on AFBC technology and will have Air cooled condenser system for cooling of water CPP. | <p>Complied</p> <ul style="list-style-type: none"> Bag houses have been installed for raw mill, coal mill & cement mill each and ESP for cooler to control dust emission from the stacks. In addition, 36 no of bag filters have been installed at various locations. The installed pollution Control equipment's confirm to meet the desired emission standards of 30 mg/Nm³, as revised by Gazette Notification G.S.R. 612 (E) dated 25th Aug. 2014 and as amended vide Gazette Notification G.S.R. 497 (E) dated 10th May 2016. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">S No</th> <th style="text-align: center;">Location of APCE</th> <th style="text-align: center;">Type</th> <th style="text-align: center;">Number</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Raw Mill and Kiln</td> <td style="text-align: center;">Bag House</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Coal Mill</td> <td style="text-align: center;">Bag House</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">Clinker Cooler</td> <td style="text-align: center;">ESP</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">Cement Mill</td> <td style="text-align: center;">Bag House</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">Various Transfer points.</td> <td style="text-align: center;">Bag Filter</td> <td style="text-align: center;">36</td> </tr> </tbody> </table> <ul style="list-style-type: none"> The major stacks i.e. Stack attached to Raw Mill/Kiln, Coal Mill, Cement Mill and Cooler are equipped with Online Continuous Emissions Monitoring System (CEMS) and monitored data is being transmitted regularly to APPCB and CPCB Websites. Further, Stack monitoring is also being carried out through MOEF&CC recognized third party laboratory accredited by NABL. Monthly reports are being submitted to State Regional Pollution Control Board office on monthly basis & Regional Office of MoEF&CC on Half-Yearly Basis. Monitoring report enclosed as Annexure-1. At present CPP is not commissioned. | S No | Location of APCE | Type | Number | 1 | Raw Mill and Kiln | Bag House | 1 | 2 | Coal Mill | Bag House | 1 | 3 | Clinker Cooler | ESP | 1 | 4 | Cement Mill | Bag House | 1 | 5 | Various Transfer points. | Bag Filter | 36 |
| S No | Location of APCE | Type | Number | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Raw Mill and Kiln | Bag House | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Coal Mill | Bag House | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Clinker Cooler | ESP | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Cement Mill | Bag House | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Various Transfer points. | Bag Filter | 36 | | | | | | | | | | | | | | | | | | | | | | | |

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| Covered Shed | Raw Mill/Kiln Bag House | Closed Transfer Towers |
|---|--|--|
|  |  |  |
| 2 | <p>The unit shall use the high calorific hazardous waste in their kiln. The relevant designed factors shall be incorporated at the inception stage itself.</p> | <p>Complied</p> <ul style="list-style-type: none"> The system for using the high calorific hazardous waste in kiln was incorporated. We are using Hazardous waste like Organic spent solvents liquids and solids, spent carbon, Process residues along with Plastic waste, Refused Derived fuels etc. For FY 2021-22 our Thermal Substitution Rate up to September 2021 is 15% The permission from APPCB to use various high calorific value hazardous waste in Kiln has been obtained vide letter No: APPCB/KNL/KDP/102/HO/CFO/2020 dated 03.11.2020 CPCB registration has been obtained to use hazardous waste in our Kiln vide letter no.B-33014/2015/PCI-II/6645 dated on27.01.2016.andB-33014/2015/PCI-II/21412 dated on 22.3.3016 |
|  | <p>Pneumatic System available for Unloading for Feeding AFR</p> |  <p>Mechanized system for unloading and Carbon Black</p> |
| 3 | <p>The height of the stack for Raw mill and kiln will be 90 m and for CPP it will be 110 m. Bag</p> | <p>Complied.</p> |

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| | <p>house will be installed at all other emission points except the cooler exhaust. Bag filters will be provided at all material handling and transfer locations. Low NOx burners shall be installed to control NOx emissions and lime injection shall be carried out to reduce SO2 emissions, if required.</p> | <ul style="list-style-type: none"> The height of the stack attached to Raw Mill/Kiln is 145m, Coal Mill is 65 m, Cooler 41m and Cement mill 46.5. CPP is not established. Reverse Air Bag houses have been installed for Raw mill, Pulse jet Bag houses provided for Coal mill, cement mill & ESP for Cooler. 36 no's of bag filters have been installed at material handling and transfer locations Installed low NOx burners/SNCR to reduce NOx, there is no problem of SO2 emissions as Sulphur content in Limestone is only <1% and Fuel Coal is 2-3%, Pet coke is 7.5 to 8.5%. Therefore lime injection is not required. The Nox and Sox are well maintained with in the specified limits. | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|--|----------------------|----------------------------|----------------|----------------------|---|-------------------|-----|------------|---|-----------|-----|----|---|----------------|-----|----|---|-------------|-----|----|---|-------------------------|--------------|--------------|
| 4 | <p>Continuous On-line monitors for particulate emissions, SO2 and Nox in raw mill/kiln clinker cooler, coal mill, cement mill etc. Shall be provided and shall make necessary arrangements for submission of On-line real time emission data to CPCB website. Interlocking system shall be provided between pollution control equipment and the process operation so that in the event of pollution control equipment not working, the respective unit(s) shutdown automatically.</p> | <p>Complied</p> <ul style="list-style-type: none"> Continuous On-line monitors have been installed and parameters are being monitored continuously as per the circular issued by CBCB vide letter no B-29016/04/06/PC-II dated 23rd Dec 2016 and the real time data is being transmitted to APPCB and CPCB websites. OCEMS have been installed at the following stacks. <table border="1" data-bbox="831 1178 1453 1592"> <thead> <tr> <th>S No</th> <th>Stacks attached to Process</th> <th>CEMS Installed</th> <th>Parameters Monitored</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Raw Mill and Kiln</td> <td>Yes</td> <td>PM,SO2,NOx</td> </tr> <tr> <td>2</td> <td>Coal Mill</td> <td>Yes</td> <td>PM</td> </tr> <tr> <td>3</td> <td>Clinker Cooler</td> <td>Yes</td> <td>PM</td> </tr> <tr> <td>4</td> <td>Cement Mill</td> <td>Yes</td> <td>PM</td> </tr> <tr> <td>5</td> <td>Various Transfer points</td> <td>Not Required</td> <td>Not Required</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Interlocking system have been provided, whenever pollution control equipment fails, the process system get tripped and stop the operation and provided interlocks on high DP, Temperature and high stack emission. | S No | Stacks attached to Process | CEMS Installed | Parameters Monitored | 1 | Raw Mill and Kiln | Yes | PM,SO2,NOx | 2 | Coal Mill | Yes | PM | 3 | Clinker Cooler | Yes | PM | 4 | Cement Mill | Yes | PM | 5 | Various Transfer points | Not Required | Not Required |
| S No | Stacks attached to Process | CEMS Installed | Parameters Monitored | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Raw Mill and Kiln | Yes | PM,SO2,NOx | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Coal Mill | Yes | PM | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Clinker Cooler | Yes | PM | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Cement Mill | Yes | PM | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Various Transfer points | Not Required | Not Required | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | <p>Acoustic enclosures will be provided at all high noise equipment and place to limit the noise levels below 85 dBA.</p> | <p>Complied</p> <p>We have incorporated best available technology to avoid high noise levels. Acoustic enclosures are provided at various locations like compressor houses, Process fans to bring down noise levels within the desired level.</p> <ul style="list-style-type: none"> Sign boards are placed at high noise areas to caution workers working in the area. | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | |
|---|--|--|
| | | <ul style="list-style-type: none"> • Necessary PPE is given to employees to prevent high noise exposure. The regular work zone noise levels are being monitored and communicated to respective section in charge for necessary action. • Further Ambient Noise Air quality is being monitored at 10 locations at periphery of the plant boundaries at day and night time through MOEF&CC recognized third party laboratory accredited by NABL on monthly basis and the levels are within the limits as per the CPCB standard The Monitoring reports are being submitted to APPCB regional office Kadapa on monthly basis. • Further it is informed that along with work zone and ambient noise levels , personal noise exposure also being monitored at high noise areas. <div data-bbox="831 936 1444 1391" data-label="Image"> </div> <p align="center">Work Zone Noise Levels Monitoring</p> <div data-bbox="831 1431 1374 1816" data-label="Image"> </div> <p align="center">Personal Noise Exposure Monitoring</p> |
| 6 | Regular ambient air quality monitoring shall be carried out. The monitoring stations will be set up in consultation with the state pollution control board. It will be ensured that at least | <p>Complied.</p> <ul style="list-style-type: none"> • We have installed two continuous Ambient Air Quality Monitoring systems(CAAQMS) in consultation with SPCB for monitoring of |

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| <p>one monitoring station is set up in up-wind and in down-wind direction along with those in other directions. On-line data for air emissions shall be transfer to the CPCB and APPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated regularly.</p> | <p>Ambient air quality for PM2.5, PM10, SO2 and NOx along with micro-meteorological parameters like Temperature, Humidity, Wind speed and Rainfall. The stations were installed one at up wind direction and one at down wind direction. The real time CAAQMS data is being uploaded to APPCB and CPCB website. The instrument used for ambient air quality monitoring are calibrated regularly as per OEM recommendations.</p> <ul style="list-style-type: none"> • Apart from above we are also monitoring ambient air quality on monthly basis by third party NABL Accredited laboratory at 4 locations: <ol style="list-style-type: none"> 1. Near 110KVA substation(South) 2. Near mines gate 2(East) 3. Mines gate 4 (North) 4. Near colony area(West) |
|--|--|



| | | |
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| <p>7</p> | <p>Fugitive emission shall be <500 Mg/m3. Bag filters shall be provided for all stacks except CPP boiler and cooler where ESP shall be provided.</p> | <p>Complied We have taken following control measures to mitigate fugitive emissions:</p> <ul style="list-style-type: none"> • Bag houses have been installed for Raw mill, coal mill, cement mill and ESP for Cooler. 36 nos of bag filters have been installed at material handling and transfer locations. CPP Not Commissioned. • Provided covered sheds for materials storage and covered material conveying systems and hoppers. The materials are being transported in covered conveyor belts to avoid fugitive emissions. The dry fog system is installed at coal and Lime stone unloading points, at all the transfer points, stock piles to arrest free release of dust. We have installed sprinkler system in coal yard to prevent fugitive emission. |
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- Thick Green belt has been developed all along the periphery of the Plant.
- In addition, we have 2 no"s high volume sweeping machines and 12 hand operated vaccum sweeping machines to maintain good housekeeping. Water spraying is done on roads continuously to suppress the fugitive emissions.
- The roads in the plant and township are made of bitumen/concrete.
- The vehicular speed is restricted to 20 kpmh to prevent fugitive emission.





Pic1: Lime Stone Storage Shed

Pic2: Additives Storage Shed

Pic3&4: Vaccum Sweeping Machines

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| 8 | <p>The regular monitoring of the fugitive emission shall be carried out by the unit as per the CPCB guidelines.</p> <p>Raw materials will be stored in covered yards and clinker in silos to control fugitive emissions. Fugitive emissions from cement mill, packing plant and coal yard shall also be controlled.</p> | <p>Complied.</p> <ul style="list-style-type: none">• Fugitive emission monitoring is being carried out at different locations like Packing plant, Coal yard etc.• In addition to that personal dust exposure monitoring also being carried out and necessary action being taken to prevent high dust exposure.  <p style="text-align: center;">Personal Dust Exposure Monitoring</p> <ul style="list-style-type: none">• Dust fall measurement also carried out at plant up wind and downwind directions.  <p style="text-align: center;">Dust fall Measurement at Downwind Direction</p> <ul style="list-style-type: none">• MoEF&CC recognized third party laboratory accredited by NABL monitor the Stack emissions, fugitive emission. Monthly reports are being submitted to regional pollution control board office and Regional Office of MoEF&CC on Half-Yearly Basis.• Ambient Air Quality Report Enclosed as Annexure-2 |
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| | | |
|---|---|--|
| 9 | <p>Raw materials will be stored in covered yards and clinker in Silos to control fugitive emissions. Fugitive emissions from Cement mill, packing area and coal yard shall be controlled.</p> | <p>Complied</p> <ul style="list-style-type: none"> • Raw materials stored under covered yards, clinker & fly ash in silos. Fugitive emissions are being controlled by providing: • Bag houses have been installed for Raw mill, coal mill, cement mill and ESP for Cooler. 36 no's of bag filters have been installed at material handling and transfer locations. • Provided covered sheds for materials storage and covered material conveying systems and hoppers. • Fog system has been provided on belt conveyors to suppress dust. Provided water suppression system at all transfer points and hoppers. • We have installed sprinkler system in coal yard to prevent fugitive emission. • Thick Green belt has been developed all along the periphery of the Plant. • In addition, we have 2 no's of high volume sweeping machines and 12 hand operated vacuum sweeping machines to maintain good housekeeping. Water spraying is done on roads continuously to suppress the fugitive emissions. • The materials are being transported in covered conveyor belts to avoid fugitive emissions. The dry fog system is installed at coal and Lime stone unloading points, at all the transfer points, stock piles to arrest free release of dust. • The roads in the plant and township are made of bitumen/concrete. • The vehicular speed is restricted to 20 kpmh to prevent fugitive emission |
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Clinker Silo



Fly Ash Silo

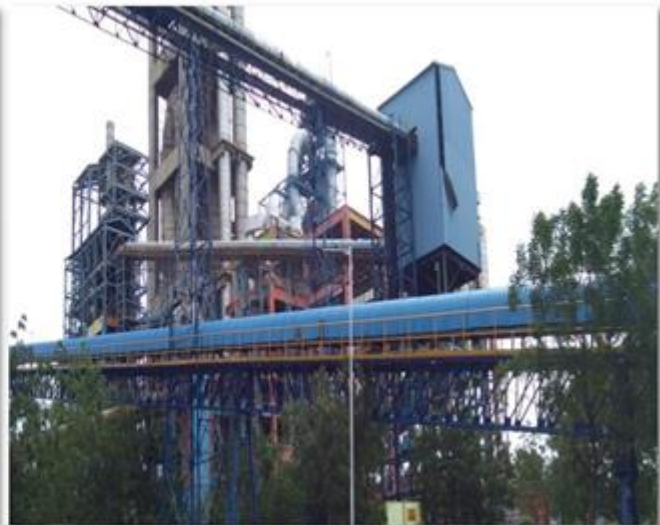


10

Vacuum dust cleaning system will be provided to evacuate dust on floors. All roads will be swept with sweeping machines. Material will be transported in tippers, covered trucks, covered containers covered rail wagons etc. dust collectors and extraction system (suction apparatus) shall be installed to control fugitive dust emissions at coal and lime stone unloading points, at all the transfer points, stock piles to arrest free release of dust.

Complied

- We have deployed two road sweeping machine and 12 hand operated vacuum sweeping machines to clean the dust from the floors in the plant. The collected dust is being re-cycled in the process.
- The materials are being transported in covered conveyor belts to avoid fugitive emissions. The dry fog system is installed at coal and Lime stone unloading points, at all the transfer points, stock piles to arrest free release of dust.
- The roads in the plant and township are made of bitumen/concrete.
- The vehicular speed is restricted to 20 kpmh to prevent fugitive emissions.



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Covered Conveyor Belts

| | | |
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| 11 | Wind breakers will be installed to restrict fugitive dust. | <p>Complied</p> <ul style="list-style-type: none"> No Open stockpiles are there in The plant, all materials are stored under covered shed and/or silos. 100000 saplings such as Azadirachta indica, Pongamia pinnata, Delonix spp., Ficus religiosa, Tamarindus Indica, Cononcarpus spp. etc have been planted to develop thick Green belt along the plant periphery. This thick green belt act as a wind breaker to prevent Fugitive emissions transportation through wind. Clinker silo provided with wind barriers. |
| 12 | Water sprinkling system should be made in the raw material stock yard and cement bag loading areas. Regular water sprinkling shall be carried out at all areas where fugitive dust can be generated. | <p>Complied</p> <ul style="list-style-type: none"> Raw material transportation is done by covered conveyors. Fog system has also been installed on belt conveyor and Crusher to avoid fugitive dust emission. Water sprinklers have been installed in coal yards, RMH area cement bag loading areas to prevent fugitive emission. Regular water sprinkling is being carried out at all areas where fugitive dust can be generated. |



Water Sprinklers at RMH Area



Dry Fog System

| | | |
|----|---|--|
| 13 | For cooling towers of CPP will have Air cooled condensers | CPP is not Established. |
| 14 | Copy of water withdrawal permission from the relevant authority shall be submitted before starting the project. | <p>Complied</p> <ul style="list-style-type: none"> We have obtained ground water withdrawal permission from AP ground water department vide letter no. 2021/Hg/EC/07 dated 1/5/2008. The same is |

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| | | |
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| | | <p>submitted to your good office before starting the project. Further we have got NOC for Ground Water Withdrawal vide PRR05-11028(31)/1/2021-SLNA-GIS-CORD, Dated on 16.07.2021 from State Panchayat raj & Rural Development Department under AP WALTA Act 2012.</p> |
| 15 | <p>No waste water will be generated in cement manufacture. The waste water from CPP and domestic activities shall be treated in effluent treatment plant(ETP) and sewage water reclamation plant (SWRP) respectively and recycled /reuse in cement plant for makeup, in CPP for cooling, dust suppression, other plant related activities and Green belt development. No waste water will be released outside the premises. 'Zero discharge' shall be strictly adopted. During monsoon, the waste water will be stored in the mines pit. Separate storm water drains will be provided and storm water from CPP area will be stored in a settling tank before discharge in to the nallah.</p> | <p>Complied</p> <ul style="list-style-type: none"> • Effluents are generated during cement manufacturing process. • waste water is being generated from the cement plant. The waste water from domestic activities are being treated in Sewage treatment plant and reused for Process, dust suppression and Green belt development in colony and plant area. Hence no water is being released outside the premises. "ZERO Liquid Discharge' is strictly adopted. • The worked out mine area is used for storage of Rain water during monsoon. • Rain water harvesting ponds have been developed. The roof water is being diverted to harvesting ponds. The storm water drains are connected to harvesting ponds. The harvested water is being used for recharging the ground water and for various process activities to conserve fresh water. • CPP is not yet commissioned. |



Sewage Treatment Plant

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Rain Water Harvesting Pond at Plant

| | | |
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| 16 | Solid waste generated shall be 100% recycled and reutilized in the process and no solid waste shall be disposed of outside the plant premises. The solid waste will be dumped in the low-lying areas and area thus filled up/reclaimed shall be used for plantation. | <p>Complied</p> <ul style="list-style-type: none"> • Solid waste generated from the process is 100% being recycled back in cement manufacturing process. • Organic Sludge generated from Sewage treatment plant is being used as a fertilizer for Green Belt development. • Organic domestic waste generated in colony and canteen is used for vermicomposting/ Biogas generation. Horticulture leaf waste used as manure and other waste co-processed as biomass. |
| 17 | Vermi-composting shall be adopted for disposing off- bio-degradable waste from the domestic sources. | <p>Complied</p> <ul style="list-style-type: none"> • The bio-degradable waste generated in the township and plant are being used for vermicomposting. Compost is being used as manure. The food waste from canteen and colony is being collected and converted in to Organic manure by using Organic waste converter. The manure is used for plantation growth. We also have provision of Bio Gas generation from Organic Waste. |

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Organic Waste Converter

Organic Manure

| | | |
|----|---|--|
| 18 | 180 TPD of fly ash generated from CPP will be transported pneumatically to the cement plant fly ash silos and shall be 100% utilized in Portland pozzolona cement production. Bottom ash shall be used in the raw mill and used for land filling. Treated STP sludge shall be used as manure for Green Belt development. Waste oil sludge shall be re-used in the plant and finally burned in the kiln or sold to authorized recyclers/re-processors. | <p>Complied</p> <ul style="list-style-type: none"> • CPP is not established till now. Hence no Flyash/Bottom ash generated. • Treated STP sludge is being used as a manure for Green Belt development. • Waste/used Oil sludge will be re-used in the plant and finally burned in the kiln. We have obtained Hazardous waste authorisation for co-incinerate/processing Waste oil in our cement kiln. |
| 19 | The company will strictly follow all the recommendations mentioned in the charter on corporate responsibility for environment protection (CREP). | <p>Complied</p> <ul style="list-style-type: none"> • All the Recommendations made in CREP charter are being implemented. implemented. The CSR activity details are enclosed as Annexure-3 |
| 20 | 33% of the total area shall be developed as a Green Belt. | <p>Complied</p> <ul style="list-style-type: none"> • We have planted 100000 number of saplings in the plant and colony over an area of 46.2 ha. Which is 35% of the total plant area. |
| 21 | The company shall must harvest surplus as well as rain water from the roof tops of the buildings proposed in the expansion project 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>Complied</p> <ul style="list-style-type: none"> • Total Rain Water Harvesting – 2000000KL Rain water Harvesting in Plant -30000 KL We have constructed water harvesting pond outside the plant which is having capacity to hold 600000 cum. of water. The roof water is being diverted to harvesting. • The storm water drains are also connected to harvesting ponds. The harvested water is being used for recharging the ground water |

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| | | <p>and used for various process activities to conserve fresh water.</p> <ul style="list-style-type: none"> Ground Water Recharging is being done Through Step Wells. 5 step wells of Recharging Capacity-20 KL each have be constructed. <p>As a part of CSR following water conservation activities have been undertaken:</p> <table border="1"> <thead> <tr> <th>Name of the Activity</th> <th>Numbers/length</th> </tr> </thead> <tbody> <tr> <td>Farm Ponds</td> <td>12</td> </tr> <tr> <td>Village Ponds</td> <td>7</td> </tr> <tr> <td>Check Dams</td> <td>3</td> </tr> <tr> <td>Check wall</td> <td>3</td> </tr> <tr> <td>Gabions</td> <td>3</td> </tr> <tr> <td>Trenches</td> <td>863 m</td> </tr> <tr> <td>Bunding</td> <td>17596.79 m</td> </tr> <tr> <td>Water storage tanks</td> <td>2</td> </tr> <tr> <td>DOP</td> <td>16</td> </tr> <tr> <td>Bore well recharge</td> <td>13</td> </tr> <tr> <td>Well recharge</td> <td>4</td> </tr> </tbody> </table> | Name of the Activity | Numbers/length | Farm Ponds | 12 | Village Ponds | 7 | Check Dams | 3 | Check wall | 3 | Gabions | 3 | Trenches | 863 m | Bunding | 17596.79 m | Water storage tanks | 2 | DOP | 16 | Bore well recharge | 13 | Well recharge | 4 |
|---------------------------|---|--|----------------------|----------------|------------|----|---------------|---|------------|---|------------|---|---------|---|----------|-------|---------|------------|---------------------|---|-----|----|--------------------|----|---------------|---|
| Name of the Activity | Numbers/length | | | | | | | | | | | | | | | | | | | | | | | | | |
| Farm Ponds | 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Village Ponds | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Check Dams | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Check wall | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gabions | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trenches | 863 m | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bunding | 17596.79 m | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water storage tanks | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOP | 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bore well recharge | 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Well recharge | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | <p>Studies on noise dosimeter and audiometry to assess the noise induced hearing loss in case of exposed employees will be carried out and the appropriate ameliorative measures will be taken, where ever necessary.</p> | <p>Complied</p> <ul style="list-style-type: none"> The pre-employment medical check-up is done and periodical check-ups including noise dosimeter and audiometry are being carried out periodically. The sample test report attached as annexure-3. | | | | | | | | | | | | | | | | | | | | | | | | |
| General Conditions | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | <p>The projects authorities must strictly adhere to the stipulations made by the state pollution control board (SPCB) and the state government.</p> | <p>Complied and noted for future compliance</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | <p>No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.</p> | <p>Complied & Noted for future compliance</p> <p>Now, we have proposed for an expansion for which Prior Environmental Clearance is being obtained. TOR has been obtained vide MoEF&CC letter dated 10th July 2019 for expansion of Integrated cement plant (Clinker- 2.6 MTPA to 5.85 MTPA; Cement- 2.5 MTPA to 6.56 MTPA; WHRS-12 MW to 27 MW) along with installation of Solar Power Plant.</p> | | | | | | | | | | | | | | | | | | | | | | | | |

**Running Plant Compliance Status of Environment Clearance of Cement Plant
issued vide Letter No. J-11011/76/2007- IA.II (I)(T), Dated: 5th April ,2007 of M/s
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| | | |
|---|--|--|
| 3 | Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters | <p>Complied</p> <ul style="list-style-type: none"> The sewage treatment Plant water inlet and outlet is being monitored by MOEF&CC recognized third party laboratory accredited by NABL on monthly basis for the parameters like pH, TDS, TSS, BOD and Oil & Grease. All the values are within the CPCB stipulated norms. |
| 4 | The project proponent shall also comply with the all Environmental protection measures and safeguards recommended in the EIA/EMP report. | <p>Complied</p> |
| 5 | Industrial waste water shall be properly collected and treated so as to conform to the standards prescribe under GSR 422 E dated 19th May 1993 and 31st December 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose. | <p>Complied</p> <ul style="list-style-type: none"> No effluent is being generated during cement manufacturing. The domestic water is being sent to Sewage Treatment Plant and after treatment, treated water being used for Process as well as Gardening. The STP outlet water is monitored regularly by authorized third party on monthly basis and the outlet water is meeting all the stipulated norms by the CPCB for the parameters like pH, TDS, TSS, BOD and Oil & Grease. STP water analysis reports attached as annexure-4. |
| 6 | The overall noise levels in and around the plant area shall be limited within the prescribed standards (85dBA) by providing noise control measures including acoustic hoods, enclosures and silencers etc. on all source of noise generation. | <p>Complied</p> <ul style="list-style-type: none"> The overall noise levels in and around the plant area is kept within the standards (85 dBA) by providing acoustic hoods, enclosures and silencers etc., on all source of noise generation. Sign boards are placed at high noise areas to caution workers working in the area. Necessary PPE is given to employees to prevent high noise exposure. The regular noise levels are being monitored and communicated to respective section in charges for necessary action. Further the noise levels are monitored at 10 locations during day and night time through MOEF&CC recognized third party laboratory accredited by NABL on monthly basis and the levels are within the limits as per the reports. <p>Ambient noise monitoring reports enclosed as Annexure-5</p> |

**Running Plant Compliance Status of Environment Clearance of Cement Plant
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| | | |
|---|---|---|
| 7 | <p>Proper housekeeping and occupational health programs shall be taken up. Regular occupational health surveillance programs shall be carried and records shall be maintaining properly for at least 30-40 years. The program shall include Lung function and sputum tests once in Six months. Sufficient preventive measures shall be adopted to avoid direct exposer to Dust.</p> | <p>Complied.</p> <ul style="list-style-type: none"> • We have deployed two sweeping machines for roads cleaning and have 12 numbers of hand operated vacuum sweeping machines to keep plant always neat and clean. • We are carrying out pre-employment medical tests and periodical medical check-ups which covers lung function test and sputum tests as per factory act and have taken all possible measures to prevent direct exposure to dust. Personal dust exposer monitoring is being carried out and sufficient preventive measures taken to avoid direct exposer to dust • Records are being maintained properly for stipulated time. Sample report attached as annexure-6 |
| 8 | <p>A separate Environment manage cell with full-fledged laboratory facilities to carry out for various management and monitoring functions shall be setup under the control of senior executive</p> | <p>Complied.</p> <ul style="list-style-type: none"> • Environment Management cell is established and deputed one senior executive to take care of environmental cell reporting directly to Unit Head. We have procured Stack monitoring kit, Piezo meters for ground water table measurement, Noise dosi meter, Personal dust exposer sampling kit, Sound level meter and Lux meter etc. to monitor and manage air, noise and water quality parameters. • We have also appointed MOEF&CC recognized third party laboratory accredited by NABL to monitor the Stack emissions, ambient air quality monitoring, ambient noise monitoring (day & night), drinking water monitoring, STP inlet & outlet water monitoring on monthly basis. |
| 9 | <p>As proposed in the EIA/EMP 31.05 crores and 4.28 crores/annum earmarked to meet the capital and recurring cost per annum respectively for the Environmental protection measures shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose</p> | <p>Complied and agrees to comply Being complied.</p> <ul style="list-style-type: none"> • We have already spent 70 Cr. towards capital cost in installing various pollution control devices. Recurring cost per annum for the Environmental protection measures is 4 crores/annum. The funds are being used judiciously for Environment protection. • The fund allocated to Environment protection shall not diverted to for any other purpose. We have spent Rs. 3.7 crore for the period of April to September 2021 for Environmental protection measures. |

**Running Plant Compliance Status of Environment Clearance of Cement Plant
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| | | |
|----|---|--|
| 10 | The concerned regional of this Ministry /State Pollution Control Board /Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted them regularly. | Being submitted regularly. |
| 11 | The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of the which shall be in the vernacular language of locality concerned informing that the project has been accorded Environmental clearance by Ministry and copies of the clearance letter shall be available with SPCB /Committee and may also be seen at website of Ministry and Forest at http://envfor.nic.in . The advertisement should be made within 7 days from the date of issue of clearance letter and the copy of same should be forwarded to the ministries regional office at Bangalore. | Complied Public notice has been published in Enaadu daily newspaper (Local Lang) Deccan Chronicle (English lang.). Copies have already been submitted along with earlier compliance. |
| 12 | The projects authorities should inform the regional office as well as Ministry the date of Financial closure and final approval of the project by the concern authorities and the date of start of land development work. | Complied. The land development work had started on - 20th April 2007 The date of financial closure of the project is 31.03.2009 |

Running Plant Compliance Status of Environment Clearance of Cement Plant issued vide Letter No. J-11011/76/2007- IA.II (I)(T), Dated: 5th April ,2007 of M/s Dalmia Cement (Bharat) Ltd.

Half yearly Compliance Report (1st April 2021 to 30th September- 2021)

Annexure-1

| Dalmia Cement (B) Limited, Chinnakomerla(vi), Mylavaram(m), YSR(dist). | | | | | | | | |
|---|---|--------------|-----|------|------|--------|-----------|----------------|
| Stack Emissions Data-April 2021 to September 2021 | | | | | | | | |
| SL.NO | STACK NAME | MONTH | | | | | | Average |
| | | April | May | June | July | August | September | |
| 1 | Cooler Emission (mg/nm3) | 15.6 | | 14.1 | 13.6 | 27 | 17.74 | 19 |
| 2 | Raw Mill/Kiln Emission (mg/nm3) | 16.8 | | 15.8 | 18.5 | 26.8 | 9.1 | 18.1 |
| | Sox(mg/nm3) | 52 | | 29 | 32 | 23 | 3 | 19.3 |
| | Nox(mg/nm3) | 265 | | 272 | 449 | 246 | 313 | 336.0 |
| 3 | Coal Mill Emission (mg/nm3) | 16.1 | | 15.4 | 16.3 | 15.9 | 7.68 | 13.3 |
| 4 | Cement Mill Emission (mg/nm3) | 15.6 | | 14.1 | 13.6 | 27 | 17.74 | 19.4 |
| | DIESEL GENERATORS | | | | | | | |
| 1 | Raw Mill Area-625kva (mg/nm3) | | | 56.2 | | 53.7 | | 53.70 |
| 2 | Cement Mill Area-625kva (mg/nm3) | | | 58.5 | | 50.1 | | 50.10 |
| 3 | Raw Materials Handling Area-625kva (mg/nm3) | | | 35.2 | | 44.9 | | 44.90 |

Annexure-2

| Ambient Air Quality Data-April 2021 to September 2021 | | | | | | | | |
|--|------------------|--------------|-----|------|------|--------|-----------|----------------|
| SL.NO | Parameter | MONTH | | | | | | Average |
| | | April | May | June | July | August | September | |
| 1 | So2(µg/m3) | 9.8 | | 10 | 11.5 | 10.7 | 10.2 | 11 |
| 2 | Nox(µg/m3) | 20.9 | | 23.8 | 24.3 | 23.8 | 22 | 23 |
| 3 | PM 10 (µg/m3) | 63 | | 65 | 64 | 63.7 | 38 | 55 |
| 4 | PM 2.5 (µg/m3) | 28 | | 28.5 | 28.7 | 27 | 20 | 25 |

Annexure-3

| Dalmia cement (B)limited, Chinnakomerla(vi), Mylavaram(m), YSR(dist). | | |
|--|--|------------------------------|
| CSR Activities Expenditure Details (April 2021 to September 2021) | | |
| Sl. No | Activity Head | Amount spent(In Rs.) |
| 1 | Climate Action – Water - Watershed Development Project | 1731959 |
| 2 | Social Infrastructure Development - RO water plant @Nawabpeta- Replacement of Membrane | 64900 |
| | Grand Total | 1796859 |

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Half yearly Compliance Report (1st April 2021 to 30th September- 2021)

Annexure-4

| <u>INVESTIGATION</u> | <u>OBSERVED VALUE & UNITS</u> | <u>REFERENCE RANGES</u> |
|---|-----------------------------------|--|
| <u>AUDIOMETRY REPORT</u> | | |
| AUDIOMETRY TEST | | |
| AUDIOMETRY | NORMAL | |
| <u>BIOCHEMISTRY REPORT</u> | | |
| GLUCOSE (SUGAR) FASTING | 104.7 (RBS) mg/dl | Adults: 74 - 100 >60y: 82 - 115 >90y: 75 - 121 |
| GLYCOSYLATED HEMOGLOBIN A1 | 6.2 % | Non diabetic : 4 - 6% Good Control : 6 - 7% Fair Control : 7 - 8% Poor Control : > 8% & above |
| BILIRUBIN TOTAL,serum | 0.43 mg/dL | 0 - 2.0 |
| SGOT (AST),serum | 40.2 U/L | 3 - 35 |
| SGPT (ALT),serum | 34.7 U/L | 3 - 45 |
| BLOOD UREA,serum | 15.3 mg/dL | 12 - 43 |
| BLOOD UREA NITROGEN (BUN),serum | 7.1 mg/dL | 6 - 20 |
| CREATININE,serum | 1.16 mg/dL | 0.8 - 1.3 |
| LIPID PROFILE | | |
| CHOLESTEROL,serum | 168.0 mg/dl | Adult (Above 19 Yrs) Desirable : <200 mg/dl Borderline : 200 - 239 mg/dl High : >=240 mg/dl |
| TRIGLYCERIDES,serum | 88.0 mg/dl | NCEP guidelines ATP III classification (Coronary heart disease risk) Desirable : <150 mg/dl Normal : 150 - 199 mg/dl High Risk : 200 - 499 mg/dl Very High Risk : >=500 mg/dl |
| HDL CHOLESTEROL (Direct),serum | 49.6 mg/dl | NCEP guidelines ATP III classification (Coronary heart disease risk) Adult High Risk : < 40 mg/dl Normal : 40 - 60 mg/dl Low Risk : >= 60 mg/dl |
| LDL CHOLESTEROL serum | 100.8 mg/dl | NCEP guidelines ATP III classification (Coronary heart disease risk) Optimal : < 100mg/dl Near Optimal : 100 - 129 mg/dl Borderline High : 130 - 159 mg/dl High : 160 - 189 mg/dl Very High : >= 190 mg/dl |
| VLDL CHOLESTEROL | 17.6 mg/dl | < 30 |
| Humain Healthtech Private Limited. | | |
| No. 1, Ambadi Road, Kotturpuram, Chennai - 600085 T: +9144 42188814 / 24472407 / 06 / 05 www.docmedservices.com email : doc.reception@humainhealth.com | | |
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Running Plant Compliance Status of Environment Clearance of Cement
Plant issued vide Letter No. J-11011/76/2007- IA.II (I)(T), Dated: 5th April
,2007 of M/s Dalmia Cement (Bharat) Ltd.

Half yearly Compliance Report (1st April 2021 to 30th September- 2021)



X-RAY REPORT

X-RAY CHEST PA VIEW REPORT

RADIOLOGY REPORT

X- RAY CHEST PA VIEW

The lung fields are clear

The cardio thoracic ratio is within normal limits.

The apices, costo and cardiophrenic angles are free.

The cardio vascular shadow and hilar shadow no abnormal feature.

The bony thorax shows no significant abnormality.

Both domes of diaphragm appear normal.

IMPRESSION: NORMAL STUDY

DR.SUSILA KRISHNAN

**DMRD, DNB, FRCR(UK)
REG. NO. 53990**

Radiologist

Running Plant Compliance Status of Environment Clearance of Cement Plant issued vide Letter No. J-11011/76/2007- IA.II (I)(T), Dated: 5th April ,2007 of M/s Dalmia Cement (Bharat) Ltd.

Half yearly Compliance Report (1st April 2021 to 30th September- 2021)



CHOL / HDL CHOL RATIO 3.4 Low Risk:3.5 normal:3.5-5.0 High Risk:>5.0

HEMATOLOGY REPORT

ESR
ESR 08 mm at 1 hr. 2 - 15
CBC

RBC PARAMETERS

| | | |
|-------------|--------------|-------------|
| HAEMOGLOBIN | 15.1 g/dl | 13.0 - 17.0 |
| PCV | 51.0 % | 40 - 50 |
| RBC | 5.72 mil/cmm | 4.5 - 5.9 |
| MCV | 89.1 fL | 83 - 101 |
| MCH | 28.5 pg | 27 - 32 |
| MCHC | 29.7 % | 32 - 36 |

WBC PARAMETERS

WBC TOTAL COUNT 9860 cells/cu.mm 4000 - 11000

WBC DIFFERENTIAL COUNT

| | | |
|-------------|--------|---------|
| NEUTROPHILS | 61.9 % | 40 - 80 |
| LYMPHOCYTES | 30.9 % | 20 - 40 |
| EOSINOPHILS | 1.2 % | 1 - 6 |
| MONOCYTES | 5.3 % | 2 - 10 |
| BASOPHILS | 0.7 % | 0 - 1 |

PLATELET PARAMETERS

PLATELET COUNT 3.93 lakhs/cu.mm 1.50 - 4.10

MEDICAL EXAMINATION REPORT

HISTORY

Running Plant Compliance Status of Environment Clearance of Cement Plant issued vide Letter No. J-11011/76/2007- IA.II (I)(T), Dated: 5th April ,2007 of M/s Dalmia Cement (Bharat) Ltd.

Half yearly Compliance Report (1st April 2021 to 30th September- 2021)

Annexure-5

| Dalmia Cement (B) Limited, Chinnakomerla(vi), Mylavaram(m), YSR(dist)-516433 | | | | | | | | | | | | | |
|---|------------------------|-------------------------------|-------------------------------|---------------------------------|--------------------|---------------------------|------------|-------------------------------|-------------------------------|---------------------------------|--------------------|---------------------------|--|
| STP Water Quality Analysis Report - April 2021 to September 2021 | | | | | | | | | | | | | |
| | STP Inlet Water | | | | | | | STP Outlet Water | | | | | |
| Month | PH | Total Dissolved Solids (mg/l) | Total Suspended Solids (mg/l) | Biological oxygen Demand (mg/l) | Oil &Grease (mg/l) | Fecal Coliform(MPN/100ml) | PH | Total Dissolved Solids (mg/l) | Total Suspended Solids (mg/l) | Biological oxygen Demand (mg/l) | Oil &Grease (mg/l) | Fecal Coliform(MPN/100ml) | |
| April | 7.15 | 920 | 358 | 37 | 4 | 900 | 7.24 | 828 | 28 | 6 | 4 | 90 | |
| May | | | | | | | | | | | | | |
| June | 7.21 | 960 | 325 | 33 | 4 | 1600 | 7.31 | 860 | 0 | 7 | 4 | 200 | |
| July | 7.1 | 1146 | 281 | 30 | 4 | 900 | 7.46 | 814 | 6 | 8.6 | 4 | 300 | |
| August | 7.1 | 802 | 64 | 17 | 4 | 1600 | 7.22 | 746 | 25 | 4 | 4 | 500 | |
| September | 6.75 | 761 | 190 | 75 | 8.8 | 1600 | 7.79 | 710 | 100 | 6.5 | 4 | 900 | |
| Average | 7.0 | 903.0 | 178.3 | 40.7 | 5.6 | | 7.5 | 756.7 | 43.7 | 6.4 | 4.0 | 566.7 | |

Annexure-6

| Dalmia Cement (B) Limited, Chinnakomerla(vi), Mylavaram(m), YSR(dist). | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Ambient Noise Data (dBA) -April 2021 to September 2021 | | | | | | | | | | | | | | | | | | | | | |
| Month | Packing Area | | Sub Station | | Mine Gate | | SwagathGuest House | | Gate No.2 | | Truck Yard | | Vajram Nagar Gate | | DG Area | | STP | | Gate No.1 | | |
| | Day | Night | Day | Night | Day | Night | Day | Night | Day | Night | Day | Night | Day | Night | Day | Night | Day | Night | Day | Night | |
| April | 66 | 58.1 | 66 | 54.9 | 63 | 53.4 | 63 | 53.2 | 66 | 55 | 66 | 56.8 | 60 | 53.7 | 68 | 58.9 | 62 | 51 | 65 | 55.2 | |
| May | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| June | 67.3 | 60.9 | 66 | 61.5 | 66 | 60.1 | 65 | 57.7 | 65 | 61 | 69 | 62.4 | 70 | 59.9 | 68 | 59.6 | 68 | 60 | 69 | 62.3 | |
| July | 66.6 | 58 | 67 | 51.6 | 63 | 51.3 | 63 | 52.1 | 65 | 56 | 66 | 55.7 | 61 | 52.5 | 68 | 55 | 62 | 52 | 65 | 55.1 | |
| August | 67.6 | 58.2 | 66 | 58 | 61 | 52.7 | 65 | 54.7 | 65 | 56 | 67 | 57.2 | 62 | 55.4 | 67 | 56.8 | 64 | 56 | 64 | 54.1 | |
| September | 69.9 | 62.7 | 69 | 61.6 | 67 | 60.8 | 65 | 60.7 | 70 | 61 | 69 | 61.9 | 64 | 59.8 | 80 | 77.6 | 62 | 60 | 71 | 61.6 | |
| Average | 68.0 | 59.6 | 67.2 | 57.1 | 63.7 | 54.9 | 64.4 | 55.8 | 66.9 | 57.6 | 67.1 | 58.3 | 62.2 | 55.9 | 71.7 | 63.1 | 62.8 | 56.0 | 66.6 | 56.9 | |