

CHETTINAD CEMENT CORPORATION PVT LIMITED

Cement Grinding Unit

Ahuj (A) & Alegaon Villages, Solapur, Maharashtra

(CFO Clearance granted vide letter number CAC/UAN No. 146968/CR-2211001311 dated 16th Nov 2022 for Cement Grinding Unit with Bulk Loading Terminal of 2 x 1 million tons per annum)

COMPLIANCE WITH CFO CONDITIONS -STATUS REPORT

1. Terms and Conditions

S.No	Condition Stipulated	Compliance Status												
i.	a) Generation-As per your application the treated effluent generation is Nil. b) Treatment- NA c) Disposal – NA	No effluent generation in Cement manufacturing process.												
ii.	A per your application, you have provided sewage treatment plant of designed capacity 25KLD for the treatment of 25 KLD of sewage.	Sewage treatment plant is in operation and connected to online portal of MPCB and CPCB.												
iii.	The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards <table border="1"><thead><tr><th>S No</th><th>Parameters</th><th>Standards</th></tr></thead><tbody><tr><td>1</td><td>Suspended solid</td><td>< 50 mg/l</td></tr><tr><td>2</td><td>BOD 3 days 27 deg C</td><td>< 30 mg/l</td></tr><tr><td>3</td><td>COD</td><td>< 100 mg/l</td></tr></tbody></table>	S No	Parameters	Standards	1	Suspended solid	< 50 mg/l	2	BOD 3 days 27 deg C	< 30 mg/l	3	COD	< 100 mg/l	TSS, COD and BOD are within the below defined limit. Monthly report has been submitted in every month at Sub Regional Office of MPCB at Solapur.
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1	Suspended solid	< 50 mg/l												
2	BOD 3 days 27 deg C	< 30 mg/l												
3	COD	< 100 mg/l												
iv.	The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case sewage shall find its way to outside factory premises.	Treated sewage water from STP collected is used for green belt development within the plant premises.												
v.	The board reserves its right to review plans specifications or other data relation to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The applicant shall obtain prior consent of the board to take steps to establish the unit or establish any treatment and disposal sys or an extension or addition thereto	Noted.												
vi.	The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.	Noted												
vii.	The applicant shall comply with the provisions of the water(Prevention & control of Pollution) Act, 1974 and as amended by installing water meters and	Digital water flow meters are installed to monitor the water extraction. Water consumption												

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	other provisions as contained in the said act:			is well within the limit. Last six month water extraction is given below. Oct-22 – 2077 m ³ Nov-22 – 2563 m ³ Dec-22 – 2890 m ³ Jan-23 – 3724 m ³ Feb-23 – 3698 m ³ Mar-23 – 4702 m ³																																																																	
	S. No	Purpose for water consumed	Water consumption Quantity(CMD)																																																																		
	1	Industrial cooling, spraying in mine pits or boiler feed	300																																																																		
	2	Domestic Purposes	35																																																																		
	3	Processing whereby water gets polluted & Pollutants are easily biodegradable	0																																																																		
	4	Processing whereby water gets polluted & Pollutants are easily biodegradable and are toxic	0																																																																		
	5	Gardening	10																																																																		
viii.	The applicant shall provide specific water pollution control system as per the condition of EP Act, 1986 and rule made there under from time to time/ Environmental clearance/CREP guidelines			Sewage treatment plant is available to treat the domestic waste water																																																																	
ix.	As per our application you have provided the Air Pollution control (APC) system and erected following stack to observe the following fuel Patter:			Noted. Installed pollution control systems are regularly maintained and monitored. Emission from the stacks are within the prescribed standard.																																																																	
	<table border="1"> <thead> <tr> <th>Stack No.</th> <th>Source</th> <th>APC System provided/proposed</th> <th>Stack Height(in mtr)</th> <th>Type of Fuel</th> <th>Sulphur Content(in %)</th> <th>Pollutant</th> <th>Standard</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cement Mill</td> <td>Bag house</td> <td>49.50</td> <td>Not applicable 0 --NA--</td> <td>-</td> <td>Particulate mater</td> <td>30 Mg/Nm³</td> </tr> <tr> <td>2</td> <td>DG set-200 KVA</td> <td>Stack</td> <td>4.00</td> <td>Diesel 57 Kg/Hr</td> <td>-</td> <td>Particulate mater Particulate mater</td> <td>150 Mg/Nm³ 27.36 Kg/Day</td> </tr> <tr> <td>Vent 1</td> <td>Cement mill top for Mill-1</td> <td>Bagfilter</td> <td>49.50</td> <td>Not applicable 0 --NA--</td> <td>-</td> <td>Particulate matter</td> <td>30 Mg/Nm³</td> </tr> <tr> <td>Vent 2-9</td> <td>Packer</td> <td>Bagfilter</td> <td>31.80</td> <td>Not applicable 0 --NA--</td> <td>-</td> <td>Particulate matter</td> <td>30 Mg/Nm³</td> </tr> <tr> <td>Vent -10</td> <td>Wagon loader</td> <td>Bagfilter</td> <td>50.00</td> <td>Not applicable 0 --NA--</td> <td>-</td> <td>Particulate matter</td> <td>30 Mg/Nm³</td> </tr> <tr> <td>3</td> <td>Cement Mill-2 (Mill-2)</td> <td>Bag House</td> <td>49.50</td> <td>Not applicable 0 --NA--</td> <td>-</td> <td>Particulate matter</td> <td>30 Mg/Nm³</td> </tr> <tr> <td>Vent -11</td> <td>Cement mill top- 2 (Mill-2)</td> <td>Bagfilter</td> <td>49.50</td> <td>Not applicable 0 --NA--</td> <td>-</td> <td>Particulate matter</td> <td>30 Mg/Nm³</td> </tr> </tbody> </table>				Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard	1	Cement Mill	Bag house	49.50	Not applicable 0 --NA--	-	Particulate mater	30 Mg/Nm ³	2	DG set-200 KVA	Stack	4.00	Diesel 57 Kg/Hr	-	Particulate mater Particulate mater	150 Mg/Nm ³ 27.36 Kg/Day	Vent 1	Cement mill top for Mill-1	Bagfilter	49.50	Not applicable 0 --NA--	-	Particulate matter	30 Mg/Nm ³	Vent 2-9	Packer	Bagfilter	31.80	Not applicable 0 --NA--	-	Particulate matter	30 Mg/Nm ³	Vent -10	Wagon loader	Bagfilter	50.00	Not applicable 0 --NA--	-	Particulate matter	30 Mg/Nm ³	3	Cement Mill-2 (Mill-2)	Bag House	49.50	Not applicable 0 --NA--	-	Particulate matter	30 Mg/Nm ³	Vent -11	Cement mill top- 2 (Mill-2)	Bagfilter	49.50	Not applicable 0 --NA--	-	Particulate matter	30 Mg/Nm ³	
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xi.	The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:			Installed pollution control systems are regularly maintained and monitored. Emission from the stacks are within the prescribed standard. And the results are being submitted to the board office regularly.																																																																	
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	operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.	
xiii.	The board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment other in whole or in part is necessary).	Noted.
xiv.	The industry shall provide and adequate APC's to loading/unloading/packing house in plant.	Provided as per the condition no ix
xv.	The industry shall provide concrete roads & mist type sprinklers/dust suppression system in raw material storage and handling area.	All internal roads are concrete roads. Dedicated Road sweeping machine available to clean the concrete roads and floors
xvi.	The clinker transfer points shall be provide suction head & adequate APC system	Clinker Transfer point is provided with suction head and connected with Bag filters. Annexure-A
xvii.	Applicant shall operate continues monitoring system for process stack emission analysis & same shall be directly connected to MPCB website https://mpcb.gov.in as well as submit the reports to respective sub regional and Regional office regularly.	Two Cement mill stacks are provided with CEMS and directly connected to MPCB& CPCB websites.
xviii.	The applicant shall operate continues automatic ambient and micrometeorological monitoring station at location indicated by state board to setup and operate at its own cost and measure SO ₂ , NO _x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air quality monitoring of MPCB.	Two CAAQMS station are installed for monitoring the ambient air quality and connected with MPCB website.
xix.	The clinker/gypsum/Ash handling system shall be covered with proper handling and ventilation arrangement connected to dust suppress agent, so as not to allow any fugitive emissions	Clinker and Fly Ash stored in the closed silo, gypsum is stored in the closed shed.
xx.	There shall not be any fugitive emissions	<p>We have made following fugitive emission control systems at out plant.</p> <ul style="list-style-type: none"> • Water Sprinkling on Roads Greenbelt along the periphery of the plant act as wind shields to control fugitive emissions. • Bag filters are provided at all material transfer points. • Closed storage system of Raw

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		<p>material.</p> <ul style="list-style-type: none"> • Dedicated Road sweeping machines for road and floor cleaning. • Closed conveying systems are provided. 														
xxi.	The firm shall provide continuous flow meters for measurement of the flow of the air.	Not applicable as it is cement grinding unit.														
xxii.	The applicant shall close down or de-rate the plant if concentration of emission is found to be exceeding the prescribed limit	In the event of the failure of any pollution control system provided for the production facility, that particular facility will be immediately put out of operation and will be restarted only after achieving the desired efficiency of the pollution control system.														
xxiii.	The industry should not carry any nuisance in surrounding area.	Noted.														
xxiv.	The Industry shall submit the daily monitoring results of stack air and ambient air monitoring of first week of every month to the respective Sub Regional & Regional Office with copy to Head Office.	It is being regularly submitted at Sub Regional office.														
xxv.	<p>Details of Bank Guarantees:</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Consent (C2E/ C2O /C2R)</th> <th>Amt of BG Imposed</th> <th>Submission Period</th> <th>Purpose of BG</th> <th>Compliance Period</th> <th>Validity Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>C2R</td> <td>Rs.30.0 Lakh</td> <td>Within 15 days</td> <td>towards operation and maintenance of pollution control system and compliance of consent and Environment Clearance Conditions</td> <td>Continuous</td> <td>31.12.2024</td> </tr> </tbody> </table> <p>The above bank guarantee shall be submitted by the applicant in favour of Regional officer at the respective Regional office within 15 days from the date of issue of consent.</p>	Sr. No	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date	1	C2R	Rs.30.0 Lakh	Within 15 days	towards operation and maintenance of pollution control system and compliance of consent and Environment Clearance Conditions	Continuous	31.12.2024	Bank guarantee submitted in favour of Regional officer at the Pune Regional office.
Sr. No	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date										
1	C2R	Rs.30.0 Lakh	Within 15 days	towards operation and maintenance of pollution control system and compliance of consent and Environment Clearance Conditions	Continuous	31.12.2024										

General Conditions

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1	The Energy source for lighting purpose shall preferably be LED based	LED based lights are used lighting purpose; installed CFL and Vapor lamps are replaced with LED in case of failure or expiry.
2	The PP shall harvest rainwater from roof tops of the building and storm water drains to recharge the ground water and utilize the same for different industrial application within the plant.	The plant area has four artificial recharge structures/pits and is constructed nearby bore wells for recharging purpose. Recharge pits are made at back side of CCR building and LPS office building. A rainwater collection well also available in the premises.
3	<p>Conditions for DG set</p> <ul style="list-style-type: none"> a) Noise from the DG set should be controlled by providing an acoustic enclosure or by treating the room acoustically. b) Industry should provide acoustic enclosure for acoustic treatment of the room should be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25dB(A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average. c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures. d) Installation of DG set must be strictly in compliance with recommendations of DG set manufacturer. e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which should help to prevent noise levels of DG set from deteriorating with use f) DG set shall be operated only in case of power failure. g) The applicant should not cause any nuisance in the surrounding area 	<ul style="list-style-type: none"> a) DG set is provided with acoustic enclosure. Acoustic control measures like silencers and enclosures have been provided for Compressor etc.,The Equipment and Machinery are maintained in good condition, the Leq of Noise level is within the standards prescribed. b) Earplugs/earmuffs are provided for people working in the high noise areas. c) Proper routine preventive maintenance procedures for DG set are followed. d) DG set operated during power failure &MSEB maintenance only.

S.No	Condition Stipulated	Compliance Status
	<p>due to operation of DG set.</p> <p>h) The applicant shall comply with the notification of MoEFFCC, India on Environment (Protection) second Amendment Rules Vide GSR 371(E) dated 17.05.2022 and its amendments regarding noise limit for generator sets run with diesel.</p>	
4	The applicant shall maintain good housekeeping.	Proper housekeeping is maintained inside plant premises.
5	The non hazardous solid waste arising in the factory premises, sweeping, etc. be disposed of scientifically so as not to cause any nuisance / Pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste	Noted
6	The applicant shall not change or alter the quantity, quality, the rate of discharge temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity for which this consent has not been granted/without prior consent of the Board.	Noted.
7	The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.	<p>Fugitive emission control measures taken</p> <ul style="list-style-type: none"> • Water Sprinkling on Roads Greenbelt along the periphery of the plant act as wind shields to control fugitive emissions. • Bag filters are provided at all material transfer points. • Closed storage system of Raw material. • Dedicated Road sweeping machines for road and floor cleaning. • Closed conveying systems are provided.
8	The Industry shall submit quarterly statement in respect of industry obligation towards consent and pollution control compliance's duly supported with documentary evidences.	It is being regularly submitted.
9	The industry shall submit official e-mail address and any change will be duly informed to the MPCB.	Noted.
10	The Industry shall achieve the National ambient air quality standards prescribed vide Government of India, Notification No	Maintained air quality as per ambient air quality standards.

S.No	Condition Stipulated	Compliance Status
	B-29016/20/90/PCI-L dated 18.11.2009 as amended.	
11	The Board reserves its right to review plans specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The applicant shall obtain prior consent of the Board to take steps to establish the unit or establish the unit or establish any treatment and disposal system or an extension or addition thereto	Noted.
12	The industry shall ensure replacement of pollution control system or its part after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.	We are ensuring replacement and reconditioning of pollution control of equipments in order to comply the standards and safety operation.
13	The PP shall provide personal protection equipment as per norms of Factory Act.	PPE are provided as per norms of Factory act.
14	Industry should monitor effluent quality, stack emissions and ambient air quality monthly quarterly.	Stack, STP and Ambient air quality are monitored regularly.
15	Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith reported to board, concerned police station, office of directorate of health services department of explosives, Inspectorate of factories and local body. In case of failure of pollution control equipments, the production process connected to it shall to be stopped.	Noted
16	The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise control production to abide by terms and conditions of this consent.	Noted.
17	The industry shall recycle/reprocess/reuse/recover hazardous waste as per the provision contain in the hazardous and other wastes(M& TM) Rules 2016, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which	Cement manufacturing process does not produce any hazardous waste, spillage cement dust are collected and reprocessed.

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	can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.	
18	An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.	Noted.
19	Industry shall strictly comply with the water(P&CP) act, 1974 Air(p&CP) act 1981 and environmental protection act, 1986 and industry specific standard under EP rules 1986 which are available on MPCB website (www.mpcb.gov.in)	Compiled
20	Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream the terminal manholes. No effluent shall find its way other than in designed and provided collection system.	The domestic effluent is being collected through separate pipelines for treatment in STP.
21	Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.	The domestic effluent is being collected through separate pipelines for treatment in STP. Thus, there will not be any mix up of effluent with storm water.
22	The industry should not cause any nuisance in surrounding area.	Noted
23	The industry shall take adequate measure for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6am to 10pm and night time is reckoned between 10pm to 6 am.	Noise level are below the define limits only daily monitoring report has been submitted to MPCB sub-Regional office at Solapur.
24	The industry shall create the environmental cell by appointing an environmental engineer, chemist and agriculture expert for looking after day to day activities related to environment and irrigation field where treated effluent is used for irrigation.	Environment cell has been created in the plant which is chaired by Unit head and included with environment incharges and other senior officers.
25	The applicant shall provide ports in the chimney's and facilities such as ladder platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's staff. The chimney's vents attached to	Sufficient port holes and monitoring platform has been provided in the stacks.

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	various sources of emission shall be designated by numbers such as S-1, S-2 etc and these shall be painted/displayed to facilitate identification.	
26	The industry should comply with the hazardous and other wasters(M&TM) Rules 2016 and submit the annual returns as per Rule 6(5) & 20(2) of Hazardous and other wastes(M&TM) rules 2016 for the receding year April to March in Form IV by 30 th June of every year.	Compiled for 2022-23. Submitted Form IV vide "ecmpcb" website
27	The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemical used for treatment shall be maintained.	Energy utilized for air pollution control devices and treatment units can be estimated separately.
28	The applicant shall bring minimum 33% of the available open land under green coverage/ Plantation. The applicant shall submit a yearly statement by 30 th September every year on available open plot area, number of trees surviving as on 31 st March of the year and number of trees planted by September end.	Greenbelt is being developed & maintained around the plant periphery. As of now, around 17000 saplings have been planted over an area of 177837sqm so far. The total proposed area for greenbelt development is 538900sqm. Greenbelt Development is being carried out considering CPCB guidelines and in consultation with the local DFO/ Agriculture Department.
29	The Board reserves its right to review plans specification or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.	
30	The firm shall submit to this office, the 30 th day of September every year the environment statement report for the financial year ending 31 st March in the prescribed Form V as per the provision of Rule 14 the Environment(Protection)(Second Amendment) Rules, 1992.	Compiled the environment statement report ending year 31 st March 2023. Form V had been submitted.
31	The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specification and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.	Noted.

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32	The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).	Noted.
33	The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the board for the services rendered in this behalf.	Provision provided for collection of environmental samples for sewage plant outlet and air emissions.