

**M/s. Dalmia Cement (Bharat) Limited**

**(Lime Stone Mine-3.819 MMTPA)**

**Consent for Operation (CFO) Half Yearly Compliance Status**

**Period: July 2021 to December 2021**

**Consultant:**



**M/s. SMS LABS SERVICES PVT LTD**

**39/6, Ground and 1<sup>st</sup> Floor, T.H. Road, Puduchatram,  
Thirumazhisai (Via), Poonamallee Taluk, Chennai – 600124,  
Tamilnadu, India.**



## Acknowledgement

M/s. SMS LABS SERVICES PVT LTD expressing sincere debt of gratitude to M/s Dalmia Cement (Bharat) limited for the opportunity given by assigning the preparation of Consent for Operation (CFO) Half Yearly Compliance Status of Lime Stone Mine with 3.819 MMTPA capacity for the period of July 2021 to December 2021. The Navabpet – Talamanchipatnam Lime Stone Mine Located at Chinnakomerla (P.O), Mylavaram (M), Jammalamadugu (Tq), YSR Kadapa District of A.P. The CFO Half Yearly compliance report prepared as per stipulated consent condition of M/s. Dalmia Cement (Bharat) Limited laid down by AP State Pollution Control Board. We also wish to acknowledge our gratitude to executives of M/s Dalmia Cement (Bharat) Limited for their co-operation and assistance during the preparation of Compliance report.

**COMPLIANCE REPORT ON CONSENT FOR OPERATION OF MINES - (APPCB)**

**CONSENT ORDER NO: 11022/94/ APPCB/KNL/KDP/CFO/HO/2020**

**DT: 09.11.2020. (FOR 3.819 MILLION TONNES PER ANNUM)**

**SCHEDULE: A**

01.	Any up-set condition in any industrial plant / activity of the industry, which result 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.	Any up-set condition Will be intimated to the Board by fax/Email under intimation to the Collector and District Magistrate.
02.	The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the board.	We don't have Chimney in our mines area. Water analysis is being carried out on quarterly basis and report is being submitted to Board office without fail.
03.	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.	We are following the rules and regulations laid by the MOL, GOI regarding public Liability Insurance Act, 1991.
04.	The mining unit should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.	Displayed two boards at the mines office one contains the CFO orders and other contains the Water, Air, Noise and Solid waste monitoring data and another one is Hazardous Waste Generated and Method of Disposal.
05.	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 the same and Being Complied.
06.	The mining unit shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the board.	Noted for Compliance. In such case prior approval will be taken Board office.
07.	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.	Being Submitted regularly.
08.	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	Noted for future compliance.

	with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The mining unit 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.	
09	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 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.	Noted the same and there are no Appeals.
10	The mining unit shall be liable to pay Environmental Compensation/ Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.	Noted the same. So far no such type of incident taken place. We are taking all preventive measures to protect Environment continuously. if any environmental damage caused to the surroundings, Compensation / Other Environmental Taxes will be paid as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue. We complying Public Liability Insurance Act 1991. The policy number is Policy No. 4007/183007737/02/000 vide dated on October 28, 2021, valid for 1 year.
11	The mining unit may explore the possibility of tapping the solar energy for their energy requirements.	We are giving most priority to use renewable energy. The 16MW project under progress. The project commissioned in December 2021
<b><u>SCHEDULE – B</u></b>		
01.	The industry shall comply with the following conditions within stipulated time, failing which the bank guarantee of Rs. 2 lakhs submitted by the industry will be forfeited without any notice:	We have complied all the following conditions. We have submitted the Bank guarantee to the Regional Office Kadapa for Rs.2 Lakhs
i	The industry has a total area of 407.05 Ha. (1017 acres) and supposed to provide green belt in an area of 214 acres, as per the EC. order dated 03.04.2008 whereas the industry developed green belt in an area about 71 acres and need to develop	We have developed 81 acres of green belt in our mines area. Based on local Forest department suggestion, we have selected native species which will attract less



**SCHEDULE – C**  
*[See rule 6(2)]*  
**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR  
OPERATOR HANDLING HAZARDOUS WASTES]**

01.	The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.	Noted the same for compliance.
02	The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.	Noted the same and being produced at the time of inspection at the request of an officer.
03	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.	Noted the same.
04	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.	Noted the same and being Complied.
05	The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;	We have well defined Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time
06	The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.	We complying Public Liability Insurance Act 1991. The policy number is Policy No. 4007/183007737/02/000 vide dated on October 28, 2021, valid for 1 year.
07	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.	Noted for Future compliance.
08	An application for the renewal of an authorization shall be made as laid down under these Rules.	Noted for Future compliance.
09	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Noted and will be complied.
<b>Specific Conditions</b>		
10	Annual return shall be filed by June 30th for the period ensuring 31st March of the year	Being followed. Submitted Form-4 for the FY 2020-2021 on 25 <sup>th</sup> June 2021.
11	The mining unit shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016.	Noted for compliance. Hazardous waste is being disposed within the Stipulated time in Environmentally sound manner.
12	The mining unit shall store Used / Waste Oil and	The used batteries are being stored in secured way

	Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.	and send to the manufacturers / dealers on buyback basis.
13	The mining unit shall comply with the provisions of HWM Rules, 2016.	Noted and Being followed.

	balance 143 acres. The applicant shall develop greenbelt in an area of 214 acres around the mine lease area, haul roads, OB dump sites etc., as stipulated in the EC orderdt.03.04.2008.	maintenance. The remaining green belt is being developed in progressive manner.
ii	The industry should establish three ambient air quality monitoring stations in the core zone as well as in the buffer zone for monitoring of RSPM, SPM, NOx and SO2, whereas the industry has not established AAQM stations. The industry shall install 4 no. of AAQM stations by 28.02.2021, as committed in the CFO committee meeting held on 02.09.2020.	We have established three ambient air quality monitoring stations in the core zone as well as in the buffer zone for monitoring of RSPM, SPM, NOx and SO2. We are monitoring Ambient Air Quality data as per Ambient Air Quality guidelines.
iii	The industry shall upload the six monthly compliance reports in APPCB website by 07.11.2020.	Noted the same and being uploaded.

#### WATER POLLUTION

01.	The source of water is mine pit water. The following is the permitted water consumption:													
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 15%;">S. No</th> <th style="width: 60%;">Purpose</th> <th style="width: 25%;">Quantity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;">Process (dust suppression)</td> <td style="text-align: center;">70 KLD</td> </tr> <tr> <td style="text-align: center;">2.</td> <td style="text-align: center;">Domestic</td> <td style="text-align: center;">8 KLD</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Total</b></td> <td style="text-align: center;"><b>78 KLD</b></td> </tr> </tbody> </table>	S. No	Purpose	Quantity	1.	Process (dust suppression)	70 KLD	2.	Domestic	8 KLD	<b>Total</b>		<b>78 KLD</b>	
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1.	Process (dust suppression)	70 KLD												
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<b>Total</b>		<b>78 KLD</b>												
	Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above.	Separate water flow meter affixed at mines area and daily consumption is being noted.												
02.	The mining unit shall ensure that no natural water course shall be obstructed due to any mining operations.	Noted the same, no natural water course is will be obstructed due to any mining operations.												
03	The mining unit shall construct catch drains and siltation ponds of appropriate size for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, greenbelt development, etc. The drains shall be regularly de-silted, particularly after monsoon and maintained properly.	We have made catch drains across the mines area to catch the Rain water in worked out pits. The water so collected is being used for Process activities. The drains are regularly de-silted.												
04	The mining unit shall construct Garland drain of appropriate size, gradient and length for both mine pit and inter burden dumps and sump capacity shall be provided. Sump capacity with adequate retention period to allow proper settling of silt material should also be provided. Sedimentation pits should be maintained at the corners of the garland drains and de-silted at regular intervals.	Garland drains are constructed for collecting the Water in mine sump. The collected water is being allowed for proper settling of Silt material.												
05	The mining unit shall provide trench for storm water draining from the mine lease area to aid in preventing the sedimentation of silt and avoid siltation at the discharge end of check dams.	We have provided Trenches along the mine lease area to aid preventing the sedimentation of silt and avoid siltation at the end of Check dams.												



06	The mining unit shall take appropriate measures to prevent pollution of nearby river and other surface water body.	Noted the same. We are not discharging any waste water in to nearby Nalliah. We have strictly adapted Zero Liquid Discharge (ZLD) system.
<b>AIR POLLUTION</b>		
07	The mining unit shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10mm) - 100 mg/ m <sup>3</sup> ; PM2.5 (Particulate Matter size less than 2.5 mm) - 60 mg/ m <sup>3</sup> ; SO <sub>2</sub> - 80 mg/ m <sup>3</sup> ; NO <sub>x</sub> - 80 mg/m <sup>3</sup> , at the periphery of the mining unit. Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No. B-29016/20/90/PCI-I, dated 18.11.2009 Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A) Night time (10 PM to 6 AM) - 70 dB (A)	Ambient air quality is being monitored every month in and round the factor and mining lease area for PM <sub>10</sub> (Particulate matter size less than 10 µg) – 100 µg/ m <sup>3</sup> ; PM <sub>2.5</sub> (Particulate matter size less than 2.5 µg) – 60 µg/ m <sup>3</sup> ; SO <sub>2</sub> - 80µg/ m <sup>3</sup> ; NO <sub>x</sub> - 80µg/ m <sup>3</sup> and noise levels are being monitored, the reading are observed well within the given permissible limits.
08	The mining unit shall comply with emission limits for DG sets of capacity up to 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 and G.S.R. 448 (E), dated 12.07.2004 under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.	Noted the same. As of now we have not DG sets.
09	The mining unit shall provide and operate the following measures for controlling fugitive emissions.	Provided bag filters and water injection system for drilling operations, haul roads wetting by 15 KL water tanker for LS and OB handling areas. Provided dry fog system for crusher operation including crushing, material transportation. Using high fuel efficient equipment for mine operation. Timely changing of drill bits and tooth points to control the fugitive emissions.
A	Atomized water spray arrangement for the main haul roads leading to the mines.	The automated water spray provided on mine haul roads to prevent vehicular fugitive emissions.
B	Dust Bloc shall be used for dust suppression on haulage roads of mines.	Using Dust Bloc system with 15 KL capacity tank with pressurized pump and installed water sprinklers for haul roads.
C	The mine unit shall install and operate the air pollution control equipment like bag filters, vacuum suction hoods, dry fogging system etc. at Crushers belt-conveyors and other areas prone to air pollution The belt conveyor should be fully covered to avoid generation of dust while transportation.	We have provided Dry fog system on Crusher dump hopper to suppress fugitive emissions. Bag filter provided on conveyor belt to suppress dust emission. The belt conveyors fully covered with GI sheets to avoid dust generation.
D	To control dust from drilling operations, drilling with dust collectors/wet drilling shall be practiced. Also drill speeds shall be regulated as per manufacturer's guidelines.	DCT fitters and Wet drilling method is being practiced to prevent dust emission during drilling operation.



E	Water spraying shall be carried out on the blasted muck pile before loading by excavator to suppress the dust.	Water spraying is being carried out on the blasted muck pile before loading by excavator to suppress the dust by 15 KL tanker								
F	Regular Water spraying shall be done on haul roads and during unloading at crusher hopper to suppress the dust effectively.	Regular Water spraying is being done on haul roads and during unloading pressurized dry fog system provided at crusher Dump hopper to suppress the dust effectively.								
10	The mining unit shall comply with the following for controlling noise emissions:	Provided Air Conditioned cabins for all HEMM. Using NONEL Initiation system for Blasting. Providing ear plugs and hear muffs for all manpower. Timely replacing ground touching parts to avoid the noise. Using highly sophisticated equipment to avoid Noise emission. Timely Maintenance is being carried out to avoid noise emissions. Provided silencers for all HEMM								
A	Machineries shall be properly maintained to prevent undesirable noise. Attention shall be paid towards rigorous maintenance of the silencers of diesel engines.	Regular maintenance of machineries is being taken to prevent undesirable noise. A keen Attention paid towards rigorous maintenance of the silencers of diesel engines.								
B	Surface drilling and blasting operations shall not be carried out at night.	No Surface drilling and blasting operations carried out at night.								
C	The drilling shall be done with sharp drill bits to reduce generation of noise during drilling	The drilling carried out with sharp drill bits to reduce generation of noise during drilling								
D	Controlled blasting with optimum charge per hole shall be practiced to reduce generation of noise.	Adopting NONEL initiation system to control the noise. Using optimum charge per hole for better control the noise levels and Noise levels are being monitored each and every blast.								
E	Hydraulic rock breaker shall be used in lieu of secondary blasting.	Noted and being practiced.								
F	Drill machine operators and dumper drivers shall be equipped with earplugs and earmuffs. The duty hours of operators working near the machinery shall be regulated to keep their noise exposure levels within limits.	All the required PPE is being provided to Drill machine operators and dumper drivers. Further we have been monitoring Personal Dust and Noise exposures at high dust and noise areas.								
G	Periodical monitoring of noise level of mining machines and at some locations in the mining site shall be done with the help of noise level meter.	Being followed.								
11	Sequential blasting and use of non-electric delay detonators shall be adopted to reduce ground vibrations	We are using non-electric delay detonators to reduce ground Vibrations and also we are using electronic detonators for effective control on blasting.								
<b>SOLID WASTE</b>										
12	The mining unit shall dispose solid waste (NON HAZARDOUS) as follows:									
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1	Over burden & mine rejects	15.45 Million M3	Shall be dumped in 85.83 Ha area and staking in temporary stock yards.							
<b>GENERAL</b>										
13	The mining unit shall not increase the mining	Noted the same. At present we are carrying out within								

	capacity beyond the permitted capacity mentioned in this order, without obtaining CFE & CFO of the board.	the permitted capacity.
14	The mining unit shall comply with conditions stipulated in the EC order dated 03.04.2020.	Complied.
15	The mining unit shall not dump the overburden, top soil etc., generated during the mining operations outside the mine lease area under any circumstances.	Overburden is being stored with in the Mining lease boundary.
16	Top soil exists during mining operation shall be removed and stacked separately so as to utilize for restoration or rehabilitation of the land.	Top soil removing and stocking separately and partly using for Green belt purpose.
17	All mining products and rejects, irrespective of size and quality should be hauled away from the mine.	Noted for future compliance.
18	The mining unit shall convert 317.17 Ha mined area into water reservoir.	Noted for future compliance.
19	The mining unit shall submit Water Quality, AAQ, Soil quality monitoring through third party approved by MoEF & CC on monthly basis.	The water quality and AAQ and Soil quality monitoring is being carried out by MoEF & CC approved third party. Reports are being submitted to Board office on quarterly basis.
20	The mining unit shall comply with all the directions issued by the Board from time to time.	Noted and being complied.
21	The mining unit shall comply with the conditions stipulated in the EC order dated 03.4.2008 and CFE order dated 05.05.2007.	Noted and being complied.
22	The industry shall comply with standards and directions issued by CPCB /MoEF & CC as and when notifications are issued.	Noted and Being complied.
23	The conditions are without prejudice to the right and contentions of this Board in any Hon'ble court of law and also without prejudice to the further orders / directions of the Hon'ble High court in WPN0.32721/2014.	Noted the same.
<b>Special Conditions</b>		
24	The mining unit shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.	Noted and will be complied
25	The mining unit shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.	We have fire NOC with validity up to 12.8.2026.