

DCB/DPM/ENV/LEG/MoEF&CC/20-21/02

20-May-20

The Director (S)

Ministry of Environment, Forest & Climate Change,
Regional Office (South Eastern Zone),
1st & 2nd floor, HEPC Building, No.34, Cathedral Garden Road,
Nungambakkam,
Chennai-600 034.

Dear Sir,

Sub: Submission of extracts of periodical survey results of Stack & Ambient Air
Quality Survey and Status of the Compliance points in Environmental
Clearance – reg.

Please find enclosed herewith the extracts of periodical survey results of Stack &
Ambient Air Quality tests conducted by us at our plant for the period from 01.10.2019
to 31.03.2020 and Status of the Compliance points in our Environmental Clearance.

Kindly acknowledge the receipt of this letter.

Thanking you,

Yours faithfully,

For **Dalmia Cement (Bharat) Limited**,



R.RAJAMOCHAN

SR.GENARAL MANAGER- Environment

Encl: as stated with relevant details.

**Compliance Report on Conditions Issued by MOEF on Environmental Clearance
vide letter J-11011/68/2004-IA II (I) dated 27.04.2005**

S.No	Conditions	Compliance
A	Specific Conditions	
(i)	<p>The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the SPCB. At no time the particulate emissions should exceed 50 mg/Nm³.</p> <p>Further, the company may also take appropriate additional measures to improve the design and operating practices of the pollution control equipment tripping in kiln ESP shall be minimized.</p> <p>Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.</p>	<p>Complied with.</p> <p>All the main stacks are provided with Pollution Control measures and continuous Stack emission monitors and connected to TNPCB and CPCB servers for real time emission levels. The Cement Plant is being operated for < 30 mg/NM³ for PM from all stacks and <100 mg/NM³ for SO₂ & <800 mg/NM³ for NO_x in Kiln Stacks. As on date, there is no exceedances of stipulated norms by SPCB/CPCB.</p> <p>Adequate Control measures are inbuilt and RABH/Bag filter are provided for Kiln Stacks (No ESP for Kiln Stacks).</p> <p>Interlocking facility has been provided.</p>
(ii)	<p>Ambient Air Quality including ambient noise levels must not exceed the standards stipulated under EPA/State authorities.</p> <p>Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with SPCB and report submitted to the Board quarterly and to the Ministry (Regional Office at Chennai) half yearly.</p>	<p>Complied with.</p> <p>Continuous Online Monitors are provided at 2 locations and connected to TNPCB and CPCB servers for transmitting real time values. As on date, there is no exceedances of stipulated AAQ norms by SPCB/CPCB.</p> <p>With consultation of TNPCB, 8 locations are identified and being monitored periodically as per NAAQ Norms. Periodical reports are being submitted to TNPCB on monthly basis and MoEF&CC regional office bi-annually.</p>

	Automatic stack monitoring system shall be installed in the stacks of the plant.	All the main stacks are provided with Pollution Control measures and continuous Stack emission monitors and connected to TNPCB and CPCB servers for real time emission levels.
(iii)	<p>The Company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Company shall provide Jet Pulse Bag filter at all dry material conveyor and transfer points. The dust collected from the pollution control equipment shall be recycled back into the process.</p> <p>Storage of raw material shall be in closed roof sheds.</p> <p>Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.</p>	<p>Complied with.</p> <p>Bag filters (74 Nos) are provided at sources, transfer points and conveyors to control fugitive dust emissions at all transfer points. The dust collected from the bag filters are recycled back into the process.</p> <p>Lime Stone is being stored in Circular Stacker & Reclaimer with a capacity of 40000 MT and 50000MT. Gypsum is stored in Linear Stacker with a capacity of 10000 MT . Additives are stored in Linear Stacker with a capacity of 17400 MT. Fly ash is pneumatically transferred from Bulker and stored in RCC silos with a capacity of 5000 MT. Wet fly ash is stored in Linear Stacker with a capacity of 12400 MT.</p> <p>Coal is being stored in Linear stacker with capacity of 25500 MT with water sprinkling arrangements.</p> <p>Clinker is being stored in 2 Nos of RCC Silos with a capacity of 45000 MT and 60000 MT.</p> <p>Cement is being stored in 21 Nos of RCC silos. Capacity ranging from 1100 MT to 9500 MT to store different varieties of Cement manufactured.</p>
(iv)	The coal storage area shall be covered and water spraying arrangements shall be made to control the fugitive emissions.	<p>Complied with.</p> <p>Coal is being stored in Linear stacker with capacity of 25500 MT with water sprinkling arrangements</p>
(v)	The Company shall install bag filters to control emissions from the coal grinding units. Further emissions from the stack of CPP shall be controlled by installation of ESP.	<p>Complied with.</p> <p>We have provided bag filter for Coal grinding and ESP for CPP. ESP stacks of CPPs are provided with continuous online stack monitors for the parameters PM, SO₂ & NO_x and connected to SPCB/CPCB servers for real time emission levels.</p>

		As on date, there is no exceedances of stipulated norms by SPCB/CPCB.
(vi)	The Company shall examine the use of gas as fuel in the captive power plant instead of coal and revert back to the Ministry with in three months in this regard.	Please refer below. As informed to the Ministry within three months, adequate gas is not available for the CPPs as confirmed by GAIL.
(vii)	The company shall use fly ash up to 35 % from the proposed captive power plant for manufacturing of Portland pozzolona cement.	Complied with. About 30% fly ash is being used for PPC manufacturing, in compliance with BIS standard. The entire fly ash generated from the captive power plants is fully utilised for PPC cement manufacturing.
(viii)	The Company shall provide tertiary treatment system. After the tertiary treatment effluent shall be fed to dual media filter and ultra filter and then finally to RO plant. The concentrate from the RO plant shall be used for wetting of coal and arrangements shall be made for solar evaporation waste water RO rejects in the designated area.	Complied with. Tertiary treatment system viz., Mutli Grade filter, Activated Carbon filter, Ultra filter & RO plant is provided for treating the trade effluent from CPPs. Treated RO reject is being used for water spraying in the cement mill and clinker cooling.
(ix)	No discharge of treated effluents shall be done outside the premises and all the treated effluent shall be utilized for green belt development and other plant related activities.	Complied with. Entire treated effluent is fully utilised for Equipment cooling in the cement plant, dust control measures and green belt development. There is no effluent discharge from the Plants and Zero effluent discharge is adopted/practiced.
(x)	As per Charter on Corporate Responsibility for Environmental Protection in respect of cement industries, the company shall reduce CO2 emission to 0.75 tonne/ tonne of cement production. Action plan in this regard shall be submitted to the ministry.	Complied with. Plant operations are in compliance with CREP guidelines. CO2 emission from the Plant is in the range of 0.70 - 0.75 tonne / tonne of cement.
(xi)	The Company shall develop green belt in an area of 13.0ha in addition to 34.6 ha already brought under the green belt development. CPCB	Complied with. The land area of the existing Cement Plant is 48.825 Ha (in total area of 67.725 Ha which

	guidelines must be followed in planning and developing green belt and selection of species etc.	includes Colony, etc.,). Out of the total area 48.825 Ha, 15.095 Ha (22.97%) land is used for green belt development in addition to 30.625 Ha of land outside the Plant area for greenbelt (Total greenbelt area-45.720 Ha). Predominant local species in consultation with local DFO are Planted and maintained at the rate of 1000 trees per Ha.
(xii)	The company must harvest the rain water from the roof tops and storm water drains to recharge the ground water	Complied with. 32 nos of Roof top recharging pits are provided in the cement Plants, CPPs and also in Colony. There is a Rain Water Harvesting Pond created in the Colony for storage of 1400 M3. The collected rain water is being used for Greenbelt development.
(xiii)	The company shall undertake Eco-development measures including community welfare measures in the project area for the overall improvement of the environment. The Eco development plan should be submitted to the TNPCB with in three months of receipt of this letter of approval.	Complied with. Eco-development activities are as below : Tree Plantation in and around our factory& nearby Villages, Bio gas Unit set up at nearby Villages, Energy Efficient Chulas, Check Dams, Deepening the Water reservoir, Drip irrigation and Awareness building. Community Welfare measures includes, Employability trainings such as Tayloring, Computer skills, Cattle care and programs such as Safety awareness training, Diabetic camp, General medical camp, Providing drinking water facilities, No Plastic drive, Solar LED lights to our near by Villages. Eco development plan was submitted on this to TNPCB vide our letter dt 15.06.2005.
B	General Conditions	
(i)	The Project authority must adhere to the stipulations made by TNPCB and State Government.	Complied with. We are adhering to the stipulations laid down by TNPCB and State Government.
(ii)	No further expansion or modification of the plant should be carried out without prior approval of this Ministry.	Complied with.
(iii)	At least four ambient air quality	Complied with.

	<p>monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM , SO₂, and NO_X are anticipated in consultation with the TNPCB.</p> <p>Data on ambient air quality and stack emission should be regularly submitted to this ministry including its Regional Office at Chennai and the SPCB / CPCB once in six months.</p>	<p>With consultation of TNPCB, 8 locations are identified and being monitored periodically as per NAAQ Norms.</p> <p>Periodical reports are being submitted to TNPCB on monthly basis and MoEF&CC regional office bi-annually.</p>
(iv)	<p>Industrial waste water should be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19.05.1993 and 31.12.1993 or as amended from time to time. The treated waste waster should be utilized for plantation purpose.</p>	<p>Complied with.</p> <p>Treated effluents are meeting the norms prescribed by the board. Entire treated effluent is fully utilised for Equipment cooling in the cement plant, dust control measures and green belt development. There is no effluent discharge from the Plants and Zero effluent discharge is adopted/practiced.</p>
(v)	<p>The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc on all sources of noise generation.</p> <p>The ambient noise levels should conform to the standards prescribed under EPA,1986 Rules, 1989 Viz, 75 dBA(day time) and 70 (dBA) night time).</p>	<p>Complied with.</p> <p>Equipments with high noise generation are provided with inbuilt aquastic measures. The overall noise levels in and around the plant area are kept well within the standards (85 dBA).</p> <p>The ambient noise levels at the plant boundaries are in compliance with MoEF & CC norms for industrial areas viz, 75 dBA (day time) and 70 (dBA) night time).</p>
(vi)	<p>Proper housekeeping and adequate occupational health programmes must be taken up.</p> <p>Occupational Health Surveillance programme should be done on a regular basis and records maintained. The programme must include lung function and sputum tests once in six</p>	<p>Complied with.</p> <p>Mechanical Road sweepers 3 nos are being used for regular cleaning and house keeping.</p> <p>An occupational health center adequately equipped with medical facilities and qualified Doctors and paramedical staffs, exists at Colony.</p> <p>Periodical Occupational Health checkup for</p>

	months.	Employees are carried out @ 25% of total employees in an annum and during Pre and Post employment records are being maintained.
(vii)	The project proponent shall also comply with all the Environmental protection measures and safeguards recommended in the Environmental Impact Assessment / Environmental Management Plan.	Complied with. The Environmental protection measures and safeguards recommended in the Environmental Impact Assessment / Environmental Management Plan are implemented.
(viii)	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of senior Executive.	Complied with. A separate Environmental management cell under the Plant Head and SGM exists in the Plant. Periodical monitoring, compliance, etc., are reviewed by the Cell periodically.
(ix)	The project authorities will provide separate funds both recurring and non recurring to implement the conditions stipulated by the MOEF as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Complied with. Separate EMP budget is provided for each financial year and spent towards Capital as well as Operating of the EMP measures. For the last Financial year Rs. 10 crore has been spent towards EMP capital cost and Rs 13 Crore per annum has been spent for EMP Operating cost. Though it is difficult to maintain a separate account in a group company, a separate audited statement in this regard is maintained.
(x)	The Regional office of this Minister at Bangalore / CPCB / SPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Complied with. Periodically bi-annual compliance report is being submitted to the Regional Office Chennai regularly.
(xi)	The project authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Date of financial closure was 31.3.2007. Final approval date was 06.05.2005 Civil work started on 10.05.2005
(xii)	The project proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the	Complied with. Advertisement regarding obtaining of Environment clearance had been published in the local

<p>clearance letter are available with the SPCB/ Committee and may also be seen at Web site of the MOEF . This should be advertised with in seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office.</p>	<p>newspapers (Dinamalar, Daily thanthi, The Hindu All Trichy edition) and communicated on 29.04.2005 to the Ministry.</p>
---	--

**Compliance Report on Conditions Issued by MOEF on Environmental Clearance
vide letter J-13012/12/2007-IA.II (T) dt 17.05.07 for the expansion of 23 MW
Captive Power Plant**

S.No	TERMS & CONDITIONS	COMPLIANCE STATUS
I	No additional land shall be required for any facilities relating to the proposed expansion project.	Complied with. No additional land is acquired for the proposed expansion.
II	A stack of 80 m height with exit velocity of not less than 14.7 m/sec shall be provided with continuous On - line monitoring system. The data collected shall be analyzed and submitted regularly to the Ministry.	Complied with. A Stack of 80 m height with Continuous Online monitoring system is provided. Periodical reports are being submitted to TNPCB on monthly basis and MoEF&CC regional office bi-annually.
III	Electrostatic Precipitator (ESPs) with efficiency not less than 99.99% shall be installed to limit particulate emission to 50 mg/Nm ³ . The stack shall be fitted with inter locking system to shut down the plant in the event of non - functioning of ESPs.	Complied with. Electrostatic Precipitator with 99.99 % Collection Efficiency is provided to limit the Particulate Emission to 50 mg/Nm ³ .The CPP is being operated for < 50 mg/NM ³ . As on date, there is no exceedances of stipulated norms by SPCB/CPCB. Interlocking systems is provided to shut down the Plant in the event of non-functioning of ESPs.
IV	Dust extraction and suppression system and water sprinklers shall be provided for controlling fugitive dust transportation,in coal storage area and other vulnerable areas of the plant.	Complied with. Necessary dust suppression and dust extraction sytems are provided to avoid fugitive emissions in coal storage and handling.
V	Water requirement shall be met from the existing allocation and source.No ground water shall be extracted for the power plant at any stage.	Complied with. Water requirement is met from the existing allocation only. No ground water is extracted.
VI	Closed Cycle Cooling system with cooling towers shall be provided.	Complied with. Closed Cycle cooling system with cooling tower is provided.
VII	The treated effluents shall be re-circulated and reused within the plant area.There shall be no waste water discharge outside the plant boundary.	Complied with. Entire treated effluent is fully utilised for Equipment cooling in the cement plant, dust control measures and green belt development. There is no effluent discharge from the Plants and Zero effluent

		discharge is adopted/practiced.
VIII	Rainwater harvesting shall be practiced. A detailed scheme from rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board and a copy of the same shall be submitted within three months to this ministry.	Complied with. Complied with. 32 nos of Roof top recharging pits are provided in the cement Plants, CPPs and also in Colony. There is a Rain Water Harvesting Pond created in the Colony for storage of 1400 M3. The collected rain water is being used for Greenbelt development.
IX	Leq of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.	Complied with. Equipments with high noise generation are provided with inbuilt aquastic measures. The overall noise levels in and around the plant area are kept well within the standards (75 dBA).
X	Dry ash collection system shall be provided.100 % ash utilisation shall be ensured from the day one of the commissioning of the plant.	Complied with. Separate bin for dry ash collection is provided.The entire quantity of dry ash generated is utilised in the existing cement plant for Pozzolona Cement Manufacture.
XI	A greenbelt shall be developed around the plant boundary with tree density of around 2500 trees per ha.The area under greenbelt shall be atleast 1/3rd of the total area.	Complied with. Predominant local species in consultation with local DFO are Planted and maintained at the rate of 2500 trees per ha.
XII	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied with. Proper First aid and sanitation arrangements were provided to the drivers and other contract workers during construction phase.
XIII	Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained.The location of monitoring stations and frequency of monitoring shall be decided in consultation with the State Pollution Control Board.Periodic reports shall be submitted to the Regional Office of this Ministry at Bangalore.	Complied with. Regular monitoring is being done and the reports are furnished to the Board & MOEF,Chennai periodically.
XIV	The project proponent shall advertise in atleast two local newspapers widely circulated in the region around thje project,one of which shall be in the vernacular language of the locality	Complied with.

	concerned, informing that the project has been accorded environmental clearance and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in	
XV	A separate Environment Management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied with. A separate Environmental management cell under the Plant Head and SGM exists in the Plant. Periodical monitoring, compliance, etc., are reviewed by the Cell periodically.
XVI	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this ministry, the Regional Office and the CPCB/SPCB.	Complied with. Half yearly report on the Status of Implementation of the Stipulated conditions and environmental safeguards are being submitted to the Ministry, the Regional Office and the CPCB / SPCB.
XVII	Regional Office of the Ministry of Environment & Forests located at Bangalore will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Environmental Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Complied with.
XVIII	Separate funds shall be allocated for implementation of Environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the Environment protection measures shall not be diverted for other purposes and year-wise expenditure shall be reported to the Ministry.	Complied with. We had allocated and spent Rs. 425 lacs as capital cost for Air Pollution Control, Water Pollution Control, Noise Pollution Control, Environmental Monitoring & Management, Occupational Health and Green belt.
XIX	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bangalore/ the CPCB/the SPCB who would be monitoring the compliance of Environmental Status.	Complied with. Full cooperation is extended to the Scientists/officers from the Ministry/Regional Office of the Ministry at Chennai/the CPCB/the SPCB.

DALMIA CEMENT (BHARAT) LIMITED, DALMIAPURAM

EXTRACTS OF STACK EMISSION TEST RESULTS

Sl.No.	Stack Attached to	Parameters	Unit	Months						Standards
				Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	
1	Line-1 Kiln/VRM-2 ESP	Stack Temperature	°C	92	93	122	112	104	113	-
		Gas Volume	NM3/Hr	325452	317256	355617	287648	305648	298137	-
		SPM	mg/NM3	10	9	14	7	9	10	30
		SO2	mg/NM3	5	6	7	4	11	4	100
		NOx	mg/NM ³	476	450	444	580	550	448	800
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	80	70	90	135	-
2	Line-1 Coal Mill Bag House	Stack Temperature	°C	88	84	66	72	69	79	-
		Gas Volume	NM3/Hr	47705	35261	53308	35131	45631	38081	-
		SPM	mg/NM3	7	7	7	8	9	7	30
		SO2	mg/NM3	4	5	15	4	8	27	-
		NOx	mg/NM3	450	425	328	480	480	359	-
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	5	65	85	84	-
3	Line-1 Cooler ESP	Stack Temperature	°C	296	281	285	261	288	261	-
		Gas Volume	NM3/Hr	175211	193768	194669	171953	182064	206097	-
		SPM	mg/NM3	13	12	12	11	10	10	30
		SO2	mg/NM3	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	-
		NOx	mg/NM3	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	-
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	BDL(DL:1.14)	BDL(DL:1.14)	BDL(DL:1.14)	BDL(DL:1.14)	-
4	Cement Mill-CVRM-1 Bag House	Stack Temperature	°C	89	94	60	65	78	70	-
		Gas Volume	NM3/Hr	216854	173133	147755	153144	164257	170300	-
		SPM	mg/NM3	15	8	8	11	10	9	30
		SO2	mg/NM3	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	-
		NOx	mg/NM3	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	-
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	BDL(DL:1.14)	BDL(DL:1.14)	BDL(DL:1.14)	BDL(DL:1.14)	-
5	Line-2 Kiln/VRM-3 RABH	Stack Temperature	°C	75	89	164	84	102	186	-
		Gas Volume	NM3/Hr	569974	474328	534459	552695	503675	627951	-
		SPM	mg/NM3	4	7	13	9	8	11	30
		SO2	mg/NM3	4	6	4	5	3	10	100
		NOx	mg/NM3	341	300	384	406	273	410	800
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	40	65	120	94	-
6	Line-2 Coal Mill Bag House	Stack Temperature	°C	82	76	72	66	78	78	-
		Gas Volume	NM3/Hr	154667	176156	145542	160417	154968	124786	-
		SPM	mg/NM3	16	11	10	5	11	6	30
		SO2	mg/NM3	4	4	9	4	3	31	-
		NOx	mg/NM3	325	295	389	350	250	349	-
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	608	1477	98	188	-
7	Line-2 Cooler ESP	Stack Temperature	°C	290	225	216	308	275	293	-
		Gas Volume	NM3/Hr	283800	274565	282537	248485	254864	145603	-
		SPM	mg/NM3	24	25	16	15	15	16	30
		SO2	mg/NM3	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	-
		NOx	mg/NM3	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	-
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	BDL(DL:1.14)	BDL(DL:1.14)	BDL(DL:1.14)	BDL(DL:1.14)	-
8	Cement Mill -CVRM-2 Bag House	Stack Temperature	°C	73	78	62	84	79	81	-
		Gas Volume	NM3/Hr	326481	231492	271247	237050	248695	224015	-
		SPM	mg/NM3	26	13	9	9	10	9	30
		SO2	mg/NM3	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	-
		NOx	mg/NM3	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	-
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	BDL(DL:1.14)	BDL(DL:1.14)	BDL(DL:1.14)	BDL(DL:1.14)	-
9	27MW Captive Power Plant ESP	Stack Temperature	°C	110	120	141	107	110	106	-
		Gas Volume	NM3/Hr	169191	168978	198781	131252	128985	98070	-
		SPM	mg/NM3	21	18	14	21	20	20	50
		SO2	mg/NM3	156	252	210	210	170	363	600
		NOx	mg/NM ³	211	203	184	150	138	181	300
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	141	1597	525	118	-
10	23MW Captive Power Plant ESP	Stack Temperature	°C	114	135	139	105	107	103	-
		Gas Volume	NM3/Hr	85532	78569	120497	79585	85125	84575	-
		SPM	mg/NM3	23	20	26	18	20	21	50
		SO2	mg/NM3	217	206	153	204	210	426	600
		NOx	mg/NM ³	208	265	120	140	120	135	300
		CO	%V/V & mg/M3	BLQ(LOQ 0.2%)	BLQ(LOQ 0.2%)	351	273	152	228	-

BDL-Below Detection Limit; BLQ- Below the Limit of Quantification

DALMIA CEMENT (BHARAT) LIMITED, DALMIAPURAM

EXTRACTS OF AMBIENT AIR QUALITY TEST RESULTS

Sl.No.	Location	Parameters	Unit	Months						Standards
				Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	
1	On top of Scaffolding near Guest House	PM-10	µg/M3	44.6	40.8	42.5	51.5	42.9	51.0	100
		PM-2.5	µg/M3	13.1	14.5	15.2	19.3	13.5	22.9	60
		SO2	µg/M3	8.3	7.4	8.2	19.9	9.5	8.3	80
		NO2	µg/M3	10.5	14.7	15.1	23.8	12.8	11.6	80
2	On top of "B" Type Quarters	PM-10	µg/M3	41.3	45.1	41.7	50.7	43.2	46.3	100
		PM-2.5	µg/M3	15.8	19.4	18.3	15.6	14.9	29.9	60
		SO2	µg/M3	11.6	13.7	12.5	13.3	12.1	10.1	80
		NO2	µg/M3	12.6	23.5	22.5	27.0	21.2	13.8	80
3	On the top scaffolding at Colony Estate Office	PM-10	µg/M3	40.2	38.8	40.5	39.5	37.9	45.8	100
		PM-2.5	µg/M3	20.7	17.3	16.8	16.4	15.9	20.3	60
		SO2	µg/M3	7.6	11.2	10.5	5.5	6.5	10.6	80
		NO2	µg/M3	10.2	12.6	15.2	15.2	16.8	13.3	80
4	On the top of scaffolding at the School Play Ground	PM-10	µg/M3	42.1	40.2	41.1	52.2	37.9	42.3	100
		PM-2.5	µg/M3	18.3	20.8	18.3	25.9	19.9	15.3	60
		SO2	µg/M3	10.6	8.5	8.3	17.7	7.4	14.4	80
		NO2	µg/M3	12.3	15.3	14.8	24.9	13.8	14.8	80
5	On the top of scaffolding near Dairy Farm	PM-10	µg/M3	45.6	41.6	45.2	52.9	43.2	47.3	100
		PM-2.5	µg/M3	18.6	20.4	25.0	18.5	24.2	17.2	60
		SO2	µg/M3	9.6	12.7	13.1	18.7	9.8	9.4	80
		NO2	µg/M3	11.3	21.9	12.6	25.6	16.5	13.1	80
6	On top of scaffolding near Petrol bunk	PM-10	µg/M3	43.3	46.1	53.5	52.7	49.9	64.0	100
		PM-2.5	µg/M3	13.6	11.6	17.2	24.2	24.9	24.0	60
		SO2	µg/M3	10.5	13.2	5.2	19.3	14.6	10.2	80
		NO2	µg/M3	20.4	23.2	11.5	26.7	20.5	15.0	80
7	On top of scaffolding near VPQ Mines	PM-10	µg/M3	40.3	45.2	44.2	54.2	52.6	47.1	100
		PM-2.5	µg/M3	19.3	16.5	19.9	23.7	21.2	18.2	60
		SO2	µg/M3	12.4	8.7	15.8	19.7	16.2	6.5	80
		NO2	µg/M3	23.1	17.4	27.7	23.8	23.3	14.0	80
8	On top of scaffolding near Railway station	PM-10	µg/M3	37.4	42.7	51.3	55.2	53.2	47.5	100
		PM-2.5	µg/M3	20.9	14.9	31.4	16.1	18.7	19.5	60
		SO2	µg/M3	7.4	18.6	14.2	17.8	9.8	8.0	80
		NO2	µg/M3	14.1	11.6	15.1	24.4	18.5	11.4	80

DALMIA CEMENT (BHARAT) LIMITED, DALMIAPURAM**EXTRACTS OF AMBIENT NOISE LEVEL MONITORING RESULTS**

Sl.No.	Locations	Unit	Day/ Night	Month						Standards
				Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	
1	Dalmia Higher Secondary school Play Ground	dB(L)	Day	52.1	53.5	53.2	53.2	51.2	50.4	55
			Night	41.4	44.3	41.1	42.5	40.8	41.8	45
2	Near Colony Estate Office	dB(L)	Day	49.6	50.2	52.1	53.1	50.1	49.8	55
			Night	40.8	41.6	41.3	41.2	42.2	42.3	45
3	Near Colony Guest house	dB(L)	Day	50.7	51.4	52.5	51.8	52.9	51.9	55
			Night	42.9	43.5	41.9	42.6	41.2	42.9	45
4	Near 'B' type Quarters	dB(L)	Day	51.4	52.1	51.9	53.6	51.5	51.2	55
			Night	41.4	42.1	40.2	42.1	43.5	42.9	45
5	At Dairy Farm	dB(L)	Day	50.1	51.6	52.9	54.3	52.5	50.9	55
			Night	40.8	41.2	41.2	43.2	42.8	40.6	45
6	Near Petrol Bunk	dB(L)	Day	54.7	53.9	53.7	54.6	53.2	52.3	55
			Night	43.1	44.5	42.9	44.1	43.9	41.5	45
7	Near VPQ Mines	dB(L)	Day	51.4	51.8	53.9	53.2	52.8	51.1	55
			Night	43.8	43.4	44.1	41.9	43.8	40.9	45
8	Near Railway Station	dB(L)	Day	53.9	54.1	54.1	53.2	54.1	53.8	55
			Night	42.7	43.9	43.7	43.2	44.3	43.2	45



CSR Updates- A Glimpse

Farm Pond - Soil & Water conservation



Soil & Water conservation - Farm Pond



Drip irrigation System -Soil & Water conservation



Soil & Water conservation -Drip irrigation System



Solar Pumping Irrigation- Energy Conservation



Energy Conservation- Solar Pumping Irrigation



Offer letter Distribution to 35-HHA Trade Students



Diwali Sweets With Special Children



Diwali Celebration with special childrens at Synthika trust-Vellanoor village. Sweets and Biscuits were distributed to all Kids and Staff Members. Childrens sang song and enjoyed sharing sweets among themself. Kids and staff Members thanked Dalmia and conveyed their Diwali wishes to all.

Social Development- Veterinary Camps



03 Veterinary Camps Organised at Intervention villages Benefiting 940 Cattles. FMD vaccination were provided.

Childrens Day Celebration at Aadhi Dhiravidar Welafre School-Kallakudi village



Stationery Kits Gifted to 33 Childrens in the presence of Mr.Suresh-Head-Logistics

Social Development- General Medical Camp



General Medical Camp organised at Palinganatham village. 142 villagers benefited, Free medicines were distributed al O.P's

NABARD -District Development Manager (DDM) Interaction with HHA - trade trainees



Our Recent Initiatives

1. Carbon Neutral Initiatives: Discussion meeting with Experts



2. Observed Productivity Week on 12th Feb'20:



3. Environmental System Awareness training by Expert on 28.2.20:



4. Plastic Pollution Free Tamilnadu- Awareness Program-28.2.20



5. Training Program on Various methods to control Fugitive Emissions in Cement & Power Plant- 29.1.20



6. Bagged CII National EHS (Environment, Health & Safety) 4 Star Award



7. Carbon Negative Road Map Training program by Mr. Ulhas Parlikar



8. Awareness Poster display on One time usage Plastic ban



9. Plastic free Colony- Awareness Rally & Plastic Collection drive on 16.10.19



10. News Paper cutting-Plastic free Colony- Awareness Rally & Plastic Collection drive on 16.10.19

