



By Email

CHO/MoEF/HYC/A/302/2381

Date-28.05.2021

The Director (S),
Ministry of Environment & Forests and Climate Change,
Regional Office, Western Region,
Government of India,
Kendriya Paryavaran Bhavan,
Link Road No.3 E-5 Ravi Shankar Nagar,
Bhopal 462 016 (MP)

Subject: Submission of 6 Monthly Compliance Report of the conditions as laid down in the Environmental Clearance letter No J-11015/47/2005-IA.II (M), dated 07/10/2005, in respect of **Chorbedi (Composite) Limestone Mines**, pertaining to Shree Digvijay Cement Co Ltd for the Period of **October 20 to March 21**

Respected Sir,

As required, we are submitting herewith Pointwise compliance status to various stipulations, as laid down in Environmental Clearance letter No. J-11015/47/2005-IA. II (M), dated 07/10/2005 with supporting documents, is enclosed with the following Annexure: -

- | | | | |
|----|--|---|------------|
| a. | Environment Statement in Form V for the year 2020-21 | : | Annexure A |
| b. | Ambient Air Quality Reports | : | Annexure B |
| c. | Noise Level | : | Annexure C |
| d. | Environment Yearly Expenses Statement | : | Annexure D |

We hope that you will find the above submission in order.

Thanking you,

Yours faithfully,

For **SHREE DIGVIJAY CEMENT CO. LTD.**


Shyam Narayan Singh
Manager (Mines)

Enclosure: As Above

Copy To:

The Environmental Engineer, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10A, Gandhinagar -382010

**SHREE DIGVIJAY
CEMENT CO. LTD.**

● **Registered Office & Works**
Post- Digvijaygram 361140, Jamnagar,
Gujarat, India.
CIN L26940GJ1944PLC000749

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SHREE DIGVIJAY CEMENT CO. LTD.
CHORBEDI (COMPOSITE) LIMESTONE MINE
SIX MONTHLY COMPLIANCE STATUS
October 20 to March 21

S. NO.	CONDITIONS	COMPLIANCE STATUS																					
A.	Specific Conditions																						
(i)	The production capacity from this mine shall not exceed 0.9 MTPA with a capping of production of limestone to a capacity of 2.2 MTPA from all 5 Mines, namely Gop, Pachhtar, Mokhana, Chorbedi and Bhogat Limestone mines put together subject to the individual mines obtaining environmental clearance.	Production during Oct-20 to March-21 is 68235.716 MT from Chorbedi (Composite) Limestone Mine. 04 Mines viz. Gop, Chorbedi, Pachhtar and Mokhana Mines have obtained EC individually as detailed below: Gop Mines – J-11015/47/2005-IA.II (M) dated 7th October 2005. Chorbedi Mines – J-11015/47/2005-IA.II (M) dated 7th October 2005. Pachhtar Mines - J-11015/49/2005-IA. II (M) dated 7th October 2005. Mokhana Mines - J-11015/48/2005-IA.II (M) dated 7th October 2005. Production of all 05 Limestone Mines during Oct-20 to March-21 and its capacities are as under- <table border="1"> <thead> <tr> <th>Name of Mine</th><th>EC Capacity in Million Tons</th><th>Production in Million Tons</th></tr> </thead> <tbody> <tr> <td>Gop</td><td>0.25</td><td>0.162</td></tr> <tr> <td>Pachhtar</td><td>1.00</td><td>0.458</td></tr> <tr> <td>Chorbedi</td><td>0.90</td><td>0.068</td></tr> <tr> <td>Mokhana</td><td>0.70</td><td>0.00</td></tr> <tr> <td>Bhogat</td><td>EC not granted</td><td>0.00</td></tr> <tr> <td>Total</td><td>2.85 (limited to 2.20)</td><td>0.688</td></tr> </tbody> </table> Mokhana Mines: Whole lease area of Mokhana Mines was under Forest Land for which Possession taken over by Forest Department on 07.08.2004. The operations were stopped since 05.08.2004. Bhogat Mines: The area covered under CRZ and EC for this mine is rejected vide MoEF letter 09.10.2006. There is no production from Bhogat Mines Since 21.10.2004.	Name of Mine	EC Capacity in Million Tons	Production in Million Tons	Gop	0.25	0.162	Pachhtar	1.00	0.458	Chorbedi	0.90	0.068	Mokhana	0.70	0.00	Bhogat	EC not granted	0.00	Total	2.85 (limited to 2.20)	0.688
Name of Mine	EC Capacity in Million Tons	Production in Million Tons																					
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Bhogat	EC not granted	0.00																					
Total	2.85 (limited to 2.20)	0.688																					
(ii)	No mining shall be undertaken in forest land for which forestry clearance has not been obtained.	No Forestry Clearance given for 220.84 Hectares Forest land and possession handed over to Forest Department since 24.09.2004. No Mining is undertaken within the Forest Area since then.																					
(iii)	Catch drains and siltation ponds of appropriate size and check dams should be constructed to arrest silt and sediment flows from the mining operations. The drains should be regularly desilted and maintained properly. Garland drain (size, gradient & length) shall be constructed for both mine pit and for the waste dump. Sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the	Construction of Garland Drains: For Waste Dump: Not applicable as there is no waste. For Mines: The mining is being done in slope and bottom of the hilly area following limestone deposits. Water flowing downwards from catchment is trapped into Mine Pits through water channels (Drains). The details are given in Annexure 1, vide our letter no Cho/MoEF/HYC/A/302/1985, Email dated 20.03.2020. Pits and Drains are marked in Surface Plan and submitted vide our letter no Cho/MoEF/HYC/A/302/1985, Email dated 20.03.2020 to your kind office as Annexure 2.																					

S. NO.	CONDITIONS	COMPLIANCE STATUS										
	area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material. Sedimentation pits should be constructed at the corners of the garland drains.	Size of the Sump (Pit) is capable to receive and store 803900.00 Ltrs of water with average rainfall 63 Cm which is well above 50% safety margin to take care of sudden Peak rainfall. Sumps are large enough to provide adequate retention period for proper settling of silt material.										
												
(iv)	Drills should be wet operated or with dust extractors.	Drill machines are not in operation.										
(v)	Controlled blasting should be practiced and only between 12 Noon and 2 PM. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	Drilling & Blasting has been eliminated by the use of Ripper –Dozer and Excavator combination, an Eco-Friendly mining. 										
(vi)	Plantation shall be done over the lease area covering 20.95 ha, which includes a green belt of adequate width around the ML area, along roads by planting suitable native species in consultation with the local DFO/Agricultural Department. The density of trees should be around 1000 plants per hectare.	Plantation as per EC condition is under progress & required area will be afforested during life of mine. At present plantation area is 6.15 hectares at the end of March 2020. 0.80 Hectares area covered under plantation in the year 2019-20. We have done year wise plantation in mines area as per mining plan. A table with year wise plantation details is given below: <table><tr><th>Year Nos. of</th><th>Nos of Saplings planted</th></tr><tr><td>Up to 2018-19</td><td>5880</td></tr><tr><td>2019-20</td><td>1100</td></tr><tr><td>2020-21</td><td>4141</td></tr><tr><td>Total</td><td>11121</td></tr></table> The species are selected as per recommendations of the Social Forestry division of the Forest Department at Taluka Lalpur, District Jamnagar. Saplings are also purchased from their Nursery. We have planted 4141 Nos of plants against the target of 1500 Nos of Plants for development of greenbelt over the next 10 years as per Annexure 3 of our letter no Cho/MoEF/HYC/A/302/1985, Email dated 20.03.2020.	Year Nos. of	Nos of Saplings planted	Up to 2018-19	5880	2019-20	1100	2020-21	4141	Total	11121
Year Nos. of	Nos of Saplings planted											
Up to 2018-19	5880											
2019-20	1100											
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Total	11121											

S. NO.	CONDITIONS	COMPLIANCE STATUS
		
(vii)	A water reservoir of 6 ha shall be created from the deeper section of worked out pit. The higher benches of the void shall be terraced and plantation done to stabilize the slopes. Peripheral fencing shall be done alongwith excavated area.	A water reservoir of 6 ha. (Size – 400m X 150m) is created from the deeper section of worked out pit which helps in recharging ground water in the area. Terracing of Benches is being done. Planation at bench and fencing shall be created around the reservoir on maturity of mining operations; during final closure of the mining in 2033.
		
(viii)	Ground water shall not be encountered during mining operations. Prior approval of the MOEF and CGWA shall be taken for mining below ground water.	Ground Water is not encountered during mining operations. The Limestone thickness in the area is 4-10 mtrs from GL, whereas the Water table lies about 12-20 mtrs BGL so there is no possibility of working below Ground Water.
(ix)	Rain water harvesting measures shall be taken up in consultation with the Regional Office, CGWB to recharge and augment groundwater in the area.	A study from reputed consultant and ex Director of CGWB is carried out for systematic Rain Water Harvesting in Chorbedi Mines. The report with proposals is submitted to Regional Office, CGWB, Ahmedabad along with application for Ground Water abstraction. As per proposal old mine pits are created which serves as recharge ponds. Additionally Circular pits in plantation area are also being made. Artificial Recharge structure at proposed Mines Office shall also be taken up once approval from CGWB, Ahmedabad is granted.

S. NO.	CONDITIONS	COMPLIANCE STATUS
		
(x)	A final Mine Closure Plan alongwith detail of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of final mine closure for approval.	The validity of Mining Lease is up to 06.11.2033. Balance life of Mine is envisaged as 15 Years @ present rate of production. So Final Closure is anticipated by 2033; accordingly, Final Mine Closure plan will be submitted by 2028 i.e. before 5 years of anticipated closure.
(xi)	Consent to operate shall be obtained from the SPCB before expanding mining operations.	CTO and subsequent Renewal of Consolidated Consents & Authorization has been obtained from GPCB, Gandhinagar, vide Order No. PC/CCA/JMN-49/ID30233/589013 dated 28.04.2021 Consent order No.AWH-112516 dated 16.04.2021 valid up to 21.03.2026.
B.	General conditions	
(i)	No change in mining technology and scope of working should be made	There is no change in mining technology and scope of working.

S. NO.	CONDITIONS	COMPLIANCE STATUS										
	without prior approval of the Ministry of Environment and Forests.											
(ii)	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	No change is made in the calendar plans including excavations, quantum of Limestone and waste. <table><tr><th>Year</th><th>Mineral</th><th>Proposed Production as per approved Mining Plan in MT</th><th>Actual Production in MT</th><th>Remarks</th></tr><tr><td>2020-21</td><td>Limestone</td><td>400000</td><td>68235.716</td><td></td></tr></table>	Year	Mineral	Proposed Production as per approved Mining Plan in MT	Actual Production in MT	Remarks	2020-21	Limestone	400000	68235.716	
Year	Mineral	Proposed Production as per approved Mining Plan in MT	Actual Production in MT	Remarks								
2020-21	Limestone	400000	68235.716									
(iii)	Data on ambient air quality (RPM and SPM) should be regularly submitted once a year to the Ministry including its Regional Office (WZ) at Bhopal and the Gujarat State Pollution Control Board /Central Pollution Control Board once in six months.)	Noted. Monitoring of Ambient Air Quality and Noise is being done on monthly basis by the Royal Environment Auditing & Consultancy Service, Rajkot. A copy of test report for the period of October 20 to March-21 is being attached for your kind reference as Annexure B, wherein parameters of PM10 are also within prescribed limit.										
(iv)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) should be provided and properly maintained.	Fugitive dust emissions from all the sources are controlled regularly. Water spraying arrangement on haul roads and mining areas is being practiced.										
(v)	Adequate measures should be taken for control of noise levels in the work environment.	Regularly monitoring the noise level being done by a NABL accredited Lab. Data of Noise level is given below Copy enclosed as Annexure C.										
(vi)	Industrial waste water, if any, should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time.	Maintenance of vehicles is being done in Tata Corgo, situated in Rajkot – Jamnagar Highway, Hapa, Jamnagar, Gujarat. All maintenance & treatment facilities like ETP are available as per the norms. A photograph is attached for your kind reference. Hence this condition may be treated as complied. 										

S. NO.	CONDITIONS	COMPLIANCE STATUS																											
(vii)	Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance program of the workers is being taken periodically to observe any contractions due to exposure to dust. Initial (IME) and Periodical Medical Examination (PME) of all the work persons is done at statutory intervals. Initial / Periodical Medical Examination is being carried out for following parameters as per Form O under rule 29 B of Mines Rules 1955 for all employees General Development: Height, Weight, Eye, Ears, Respiratory System, Circulatory System, Nervous System, Locomotor System, Hydrocele Any other abnormality. Urine, Skiagram of Chest, Cardiological Assessment, Neurological Assessment, ILO-Chest Radiograph, Spirometry, Audiometry, Pathological Test (Blood Sugar – Fasting & Post Prandial) So far not a single case is detected for dust borne disease.																											
(viii)	The funds earmarked For environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to this Ministry's Regional Office located at Bhopal (WZ).	The funds earmarked for environmental protection measures is kept in separate account and not diverted for other purpose. Expenditure for environmental protection measures is given below: Last 8 years Recurring yearly data is as under: <table border="1"> <thead> <tr> <th>S.No.</th><th>Year</th><th>Recurring Yearly Expenditure</th></tr> </thead> <tbody> <tr><td>1</td><td>2013-14</td><td>303784</td></tr> <tr><td>2</td><td>2014-15</td><td>340882</td></tr> <tr><td>3</td><td>2015-16</td><td>356060</td></tr> <tr><td>4</td><td>2016-17</td><td>311700</td></tr> <tr><td>5</td><td>2017-18</td><td>437775</td></tr> <tr><td>6</td><td>2018-19</td><td>472097</td></tr> <tr><td>7</td><td>2019-20</td><td>417950</td></tr> <tr><td>8</td><td>2020-21</td><td>620250</td></tr> </tbody> </table> Expenditure for environmental protection measures for the period is enclosed as Annexure D.	S.No.	Year	Recurring Yearly Expenditure	1	2013-14	303784	2	2014-15	340882	3	2015-16	356060	4	2016-17	311700	5	2017-18	437775	6	2018-19	472097	7	2019-20	417950	8	2020-21	620250
S.No.	Year	Recurring Yearly Expenditure																											
1	2013-14	303784																											
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5	2017-18	437775																											
6	2018-19	472097																											
7	2019-20	417950																											
8	2020-21	620250																											
(ix)	The Regional Office (WZ) of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data / information/ monitoring reports.	We are submitting six monthly compliance report along with annexures to the MoEF Regional Office Bhopal and GPCB. Full co-operation is being extended to the authorities/officials by providing data/information/monitoring report etc.																											
(x)	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom and suggestion / representation has been received while processing the proposal.	Copy of clearance letter was handed over to all concerned Panchayat.																											

S. NO.	CONDITIONS	COMPLIANCE STATUS
		
(xi)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days and provide copies of the same to anyone requesting for the same.	SPCB displayed the copy of EC as per procedure.
(xii)	The project authorities should advertise in at least two local newspapers widely circulated around the project, one of which shall be in vernacular language of the locality concerned, within 7 days of the issue of clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests at http://envfor.nic.in .	We have advertised in two local newspapers dated 10.12.2005 in respect of Environmental Clearance having been accorded to our Limestone Mines, by the MOEF New Delhi. The publication has appeared in the – (1) Times of India – Ahmedabad Edition (2) Phoolchhab – Rajkot edition.

FORM V**Environment Audit Report for the financial year ending the 31st March 2021****PART - A**

1. Name & Address of the Owner/
Occupier of the Industry
Operation or process : Shree Digvijay Cement Co. Ltd.
Chorbedi (Composite) Limestone Mine
Survey No.1 Village-Chorbedi
Taluka- Lalpur, Distt. - Jamnagar
(Gujarat)
2. Industry Category :
Primary: (STC Code) : Mining Industry
Secondary: (SIC Code)
3. Production Capacity : 0.9 million TPA
4. Year of Establishment : 07.11.1983
5. Date of the last Environmental
Statement submitted : 11.05.2020

PART - B**Water & Raw Material Consumption**(i) * Water consumption M³ / day

Process	:	0
Cooling	:	0
Domestic (Drinking)	:	0.28 KL
Dust Suppression	:	1.10 KL
Plantation	:	0.38 KL

(*)P. S Yearly consumption spread equally over 365 days of a year

Name of products	Process water consumption per unit of product	
	During previous Financial Year 2019-20	During current Financial Year 2020-21
LIMESTONE	Not Applicable	Not Applicable

(ii) Raw material consumption

S. No.	Name of raw materials	Name of Products	Consumption of raw material per unit of output	
			During the previous financial year 2019-20	During the current financial year 2020-21
1.	Explosives	Limestone	0	0
2	Ammonium nitrate		0	0
3	Detonating Fuse		0	0
4	Safety Fuse		0	0
5	Detonator		0	0
6	Cord Relays		111670 L	21135 L
7	HSD		2040 L	75 L
10	Lubricant oil		519 Kg	123 Kg
11	Grease			

PART - C

Pollution discharged to Environment/unit of output

(Parameter as specified in the consent issued)

	Pollutants	Qty. of pollutants discharged (Kg/Day)	Concentration of pollutants in discharges (Mg/Nm ³)	Percentage of variation from prescribed standard with reasons
(a)	Water	NIL		
(b)	Air	Enclosed Annexure-I		
		--	--	--
		--	--	--
		--	--	--

Note: The prescribed limit of concentration as per the Consent issued -

Sr. No.	Pollutant	Time Weightage Average	Concentration in Ambient Air
1	Sulphur dioxide (SO ₂) in Microgram/M ³	Annual 24 hours	50 80
2	Nitrogen Dioxide(NO _x) in Microgram/M ³	Annual 24 hours	40 80
3	Particulate Matter (Size less than 10 Microgram/M ³ or PM 10 Microgram/M ³)	Annual 24 hours	60 100
4	Particulate Matter (Size less than 2.5 Microgram/M ³ or PM 2.5 Microgram/M ³)	Annual 24 hours	40 60

PART - D

Hazardous Wastes

(As specified under Hazardous Wastes/Management & Handling Rules, 1989)

	Hazardous Wastes	Total Quantity (Kg.)	
		During the previous Financial Year	During the current Financial Year
(a)	From Process (Used Oil from Machines)	120 Liters	10 Liters
(b)	From pollution control facilities		

PART - E

(Solid Wastes)

		Total Quantity	
		During the Previous Financial Year	During the current Financial Year
(a)	From process	Not applicable, as there is no generation of solid waste from the process.	
(b)	From pollution control Facility		
(c)	i) Quantity recycled or re-utilized within the unit		
	ii) Sold		
	iii) Disposed		

PART – F

Please specify the characterization (in terms of concentration and quantum) of Hazardous as well as solid waste and indicate disposal practice adopted for both these categories of waste.

The used oil when taken out of machine at oil change time, it is collected in an empty barrel. This oil is reused for external lubrication of running moving parts of loading machine.

Not applicable; as described above in Part – E.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Due to additional higher investment cost of pollution control monitoring and abatement measures there is slight additional burden on cost of production. Thus, the cost of production increases to certain extent. However, as it is absolutely necessary to have a pollution control to conserve ecology & environment, we have planted trees in the mines.

PART – H

Additional measures investment proposal for environmental protection including abatement of pollution, prevention of pollution.

Following control measures were contemplated for reducing dust in mines.

1. Mining is being done by Eco-friendly Dozer-Ripper.
2. Dust suppressed on haul road by water sprinkling.
3. Fumes and smoke emissions from HEMM controlled by regular maintenance and timely overhaul of engines.
4. Tarpaulin covering on the transporting vehicle before leaving the mine site.
5. AAQ monitoring is done on regular basis. Contract awarded to Royal Environment Auditing and consultancy Service, Rajkot and reports are submitted to GPCB, Gandhinagar, MOEF, New Delhi and Regional Office of MOEF, Bhopal.

PART – I

Any other particulars for improving the quality of the environment

Following are various measures taken by us: -

1. Plantation has been done in mines.
2. Sense of creating & maintaining clean environment among the employees are being created by celebrating Mines Environment and Mineral Conservation Week every year and Environment Day and other such functions time to time on Environment, keeping slogan boards on environment etc.

Date: 22.05.2021



Signature of a person carrying out
an industry, operation or process

Name: SHYAM NARAYAN SINGH
Designation: Manager (Mines)
Address: Shree Digvijay Cement Co. Ltd.
P.O. Digvijaygram 361140
(Via) Jamnagar, Gujarat



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bai Adalat, Gondal Road, RAJKOT - 360 002

Ph: +91 281 2360695 ■ E-mail: royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. :690/03/2020-21

Date: 31/03/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone CHORBEDI MINES : MARCH 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	10/03/2021	10/03/2021	11/03/2021	11/03/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	2 to 14	2 to 14	2 to 14	2 to 14
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	30	29	27	28.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	52	51	53	52.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	10.5	15.3	13.2	13.0
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.4	18.5	24.5	21.1

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020


 Royal Environment Auditing & Consultancy Service


 Jagdish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalk-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002

Ph. +91 281 2360695 • E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. 691/03/2020-21

Date: 31/03/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone CHORBEDI MINES : MARCH 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading Place			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	10/03/2021	10/03/2021	11/03/2021	11/03/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	2 to 14	2 to 14	2 to 14	2 to 14
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.10	1.13
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	40	37	39	38.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	53	58	57	56.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	11.5	14.3	13.2	13.0
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.2	18.5	24.7	21.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service

Analyst



Royal

Environment Auditing & Consultancy Service

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Ref. No.: 790/03/2020-21

Date: 31/03/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone CHORBEDI MINES : MARCH 2021 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	23/03/2021	23/03/2021	24/03/2021	24/03/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	3 to 18	3 to 18	3 to 18	3 to 18
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	36	39	38	37.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	55	57	54	55.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	15.3	16.8	13.5	15.2
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	24.3	25.1	25.3	24.9

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service

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Ref No : 791/03/2020-21

Date: 31/03/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone CHORBEDI MINES : MARCH 2021 (2nd time)

Name of company : Shree Digvijay Cement Company Limited
Digvijaygram - 361 140.
District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading Place			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	23/03/2021	23/03/2021	24/03/2021	24/03/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	3 to 18	3 to 18	3 to 18	3 to 18
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.10	1.13
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	36	38	35	36.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	60	58	56	58.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	16.5	12.6	18.5	15.9
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.5	20.5	24.1	22.7

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ref No. 590/02/2020-21

Date: 27/02/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone CHORBEDI MINES : FEBRUATY 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	12/02/2021	12/02/2021	13/02/2021	13/02/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	1 to 14	1 to 14	1 to 14	1 to 14
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.10	1.13
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	33	32	30	31.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	55	54	56	55.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.6	17.4	15.1	15.0
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	24.3	20.1	26.4	23.6

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ref No. 591/02/2020-21

Date: 27/02/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone CHORBEDI MINES : FEBRUARY 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading Place			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	12/02/2021	12/02/2021	13/02/2021	13/02/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	1 to 14	1 to 14	1 to 14	1 to 14
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	43	40	42	41.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	56	61	60	59.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.6	16.2	15.1	15.0
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	25.1	21.3	27.4	24.6

Instrument used : 1) EcoTech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ref. No. : 690/02/2020-21

Date: 25/02/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone CHORBEDI MINES : FEBRUARY 2021 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	—	22/02/2021	22/02/2021	23/02/2021	23/02/2021
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04	Average Wind Speed	Km./Hrs.	2 to 16	2 to 16	2 to 16	2 to 16
05	Average flow rate during sampling	m ³ /minutes	1.20	1.10	1.10	1.13
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	34	37	36	35.7
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	53	55	52	53.3
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	12.5	17.6	14.4	14.8
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	21.4	22.5	23.5	22.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/09/2020

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Ref No : 691/02/2020-21

Date : 25/02/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone CHORBEDI MINES : FEBRUARY 2021 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading Place			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	—	22/02/2021	22/02/2021	23/02/2021	23/02/2021
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04	Average Wind Speed	Km./Hrs.	2 to 16	2 to 16	2 to 16	2 to 16
05	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.17
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	34	36	33	34.3
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	58	56	54	56.0
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	14.6	15.2	16.8	15.5
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	25.3	21.6	26.4	24.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ref. No. :492/01/2020-21

Date: 31/01/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone CHORBEDI MINES : JANUARY 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Navapara			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	15/01/2021	15/01/2021	16/01/2021	16/01/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	3 to 14	3 to 14	3 to 14	3 to 14
05.	Average flow rate during sampling	m ³ /minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	37	34	38	36.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	57	55	54	55.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	18.4	17.3	17.5	17.7
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.3	23.7	21.5	21.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL. Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ref No: 592/01/2020-21

Date: 24/01/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone CHORBEDI MINES : JANUARY 2021 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Navapara			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	22/01/2021	22/01/2021	23/01/2021	23/01/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	2 to 18	2 to 18	2 to 18	2 to 18
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.10	1.13
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	35	32	36	34.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	55	53	52	53.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	17.6	14.6	15.7	16.0
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.5	23.9	20.8	22.1

Instrument used: 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on: 17/06/2020.

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Ref No : 392/12/2020-21

Date : 31/12/2020

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone CHORBEDI MINES : DECEMBER 2020 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Navapara			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	—	18/12/2020	18/12/2020	19/12/2020	19/12/2020
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04	Average Wind Speed	Km./Hrs.	2 to 11	2 to 11	2 to 11	2 to 11
05	Average flow rate during sampling	m3/minutes	1.20	1.10	1.10	1.13
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	35	32	36	34.3
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	55	53	52	53.3
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	17.3	16.4	16.7	16.8
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	21.4	22.6	20.2	21.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ref. No. :492/12/2020-21

Date: 31/12/2020

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone CHORBEDI MINES : DECEMBER 2020 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Navapara			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	—	24/12/2020	24/12/2020	25/12/2020	25/12/2020
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04	Average Wind Speed	Km./Hrs.	3 to 11	3 to 11	3 to 11	3 to 11
05	Average flow rate during sampling	m ³ /minutes	1.10	1.20	1.20	1.17
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	33	30	34	32.3
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	53	51	50	51.3
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	16.5	13.7	14.6	14.9
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	20.4	21.8	19.5	20.6

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ref. No. : 292/11/2020-21

Date: 30/11/2020

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone CHORBEDI MINES : NOVEMBER 2020 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Navapara			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	11/11/2020	11/11/2020	12/11/2020	12/11/2020
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	SE	SE	SE	SE
04.	Average Wind Speed	Km./Hrs.	3 to 11	3 to 11	3 to 11	3 to 11
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	34	31	35	33.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	54	52	51	52.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	16.5	15.5	15.8	15.9
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.5	23.7	21.3	22.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/05/2020

Royal Environment Auditing & Consultancy Service



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Ref No : 392/11/2020-21

Date : 30/11/2020

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone CHORBEDI MINES : NOVEMBER 2020 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Navapara			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	---	25/11/2020	25/11/2020	26/11/2020	26/11/2020
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	---	SE	SE	SE	SE
04	Average Wind Speed	Km./Hrs.	2 to 11	2 to 11	2 to 11	2 to 11
05	Average flow rate during sampling	m3/minutes	1.20	1.10	1.10	1.13
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	32	29	32	31.0
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	52	50	49	50.3
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	14.6	12.8	13.5	13.6
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	21.6	20.6	18.4	20.2

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ref No. 192/10/2020-21

Date: 17/10/2020

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone CHORBEDI MINES : OCTOBER 2020 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1, Navapara			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	12/10/2020	12/10/2020	13/10/2020	13/10/2020
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	4 to 11	4 to 11	4 to 11	4 to 11
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.10	1.10
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	32	29	33	31.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	52	50	49	50.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	15.5	13.4	14.3	14.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.6	22.8	20.4	21.6

Instrument used 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on 17/06/2020

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Ref. No. 292/10/2020-21

Date: 05/11/2020

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone CHORBEDI MINES : OCTOBER 2020 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Navapara			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	—	29/10/2020	29/10/2020	30/10/2020	30/10/2020
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04	Average Wind Speed	Km./Hrs.	3 to 11	3 to 11	3 to 11	3 to 11
05	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.20
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	30	27	31	29.3
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	50	48	47	48.3
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	13.5	11.3	12.2	12.3
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	20.5	21.7	19.3	20.5

Instrument used: 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on: 17/06/2020

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Annexure C

Ref. No. : 698/03/2020-21

Date: 31/03/2021

WORK ZONE NOISE LEVEL MEASUREMENT**Name of company : Shree Digvijay Cement Company Limited**

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 12/02/2021

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBa		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer D8 - N (CAT)	83.5	80.3	72.3
02.	Hyundai - 140 Excavator	86.3	84.2	71.6
03.	Tata - 200 Excavator	83.4	81.5	70.2
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
04.	Dozer D - 8R	85.6	81.5	72.4
05.	Hyundai - 140 (LC - 9)	84.3	81.2	71.2
06.	Tata - 200 Bracker	86.1	80.4	70.2
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
07.	Temporary Discontinued - Not Running during visit	---	---	---

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Calibration is Done On : 12/09/2020

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Ref. No. : 697/03/2020-21

Date: 31/03/2021

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 12/03/2021

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
Time of sampling		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	50.3	40.3
02.	Chorbedi Mines Adm. Building	46.7	34.0
03.	Pachhtar and Pachhtardi Mines Adm. Building	49.3	33.7

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1)

Instruments used : Sound level meter, model : SL- 4001. (Lutron Make)

Calibration done on : 12/09/2020

Range : (A) - 30 to 80 dB, (B) - 50 to 100 dB, (C) - 80 to 130 dB.

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Ref No : 597/02/2020-21

Date: 27/02/2021

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 12/02/2021

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01	GOP Mines Adm. Building	53.2	42.4
02	Chorbedi Mines Adm. Building	48.9	36.7
03	Pachhtar and Pachhtardi Mines Adm. Building	51.2	35.8

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model SL- 4001 (Lutron Make)

Calibration done on : 12/09/2020

Range : (A) - 30 to 80 dB, (B) - 50 to 100 dB, (C) - 80 to 130 dB

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Ref No : 598/02/2020-21

Date: 27/02/2021

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 12/02/2021

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer D8 - N (CAT)	84.6	81.4	73.2
02.	Hyundai - 140 Excavator	87.2	85.3	72.5
03.	Tata - 200 Excavator	84.5	82.4	71.3
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
04.	Dozer D - 8R	86.5	82.6	73.5
05.	Hyundai - 140 (LC - 9)	85.2	82.1	72.1
06.	Tata - 200 Bracker	87.2	81.5	71.3
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
07.	Temporary Discontinued - Not Running during visit	---	---	---

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Calibration is Done On : 12/09/2020

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Ref No : 496/01/2020-21

Date: 31/01/2021

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 13/01/2021

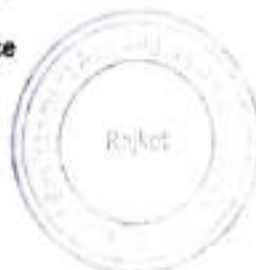
Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01	Dozer D8 - N (CAT)	80.4	82.5	71.5
02	Hyundai - 140 Excavator	83.5	81.3	74.5
03	Tata - 200 Excavator	80.5	84.1	70.5
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
04	Dozer D - 8R	82.5	84.1	72.3
05	Hyundai - 140 (LC - 9)	81.4	84.7	74.2
06	Tata - 200 Bracker	83.5	80.2	70.5
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
07	Temporary Discontinued - Not Running during visit	---	---	---

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Calibration done on : 12/09/2020

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Ref No : 497/01/2020-21

Date : 31/01/2021

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 13/01/2021

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01	GOP Mines Adm. Building	52.3	44.2
02	Chorbedi Mines Adm. Building	49.8	37.6
03	Pachhtar and Pachhtardi Mines Adm. Building	50.3	38.5

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1)

Instruments used : Sound level meter, model : SL-4001 (Lutron Make)

Calibration done on : 12/09/2020

Range : (A) - 30 to 80 dB, (B) - 50 to 100 dB, (C) - 60 to 130 dB



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Ref No : 397/12/2020-21

Date: 31/12/2020

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 17/12/2020

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	53.4	43.1
02.	Chorbedi Mines Adm. Building	48.9	39.5
03.	Pachhtar and Pachhtardi Mines Adm. Building	51.2	41.5

CPCB Standards

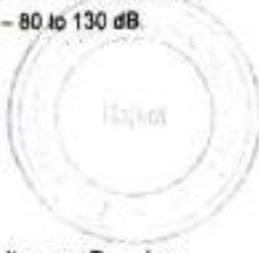
Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference: Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used: Sound level meter, model : SL- 4001, (Lutron Make)

Calibration done on : 12/09/2020

Range : (A) - 30 to 80 dB, (B) - 50 to 100 dB, (C) - 80 to 130 dB.



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Ref. No : 398/12/2020-21

Date: 31/12/2020

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 17/12/2020

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01	Dozer D8 - N (CAT)	81.5	81.5	70.3
02	Hyundai - 140 Excavator	84.3	82.2	75.2
03	Tata - 200 Excavator	81.4	85.2	71.2
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
04	Dozer D - 8R	83.4	85.2	70.2
05	Hyundai - 140 (LC - 9)	82.5	85.8	75.3
06	Tata - 200 Bracker	84.5	81.2	71.4
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
07	Temporary Discontinued - Not Running during visit	---	---	---

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Calibration done on : 12/09/2020

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Ref. No. : 297/11/2020-21

Date: 30/11/2020

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 11/11/2020

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	52.5	44.2
02.	Chorbedi Mines Adm. Building	49.8	38.4
03.	Pachhtar and Pachhtardi Mines Adm. Building	52.3	40.6

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : SL- 4001. (Lutron Make)

Calibration done on : 12/09/2020

Range : (A)- 30 to 80 dB, (B) - 50 to 100 dB, (C) - 80 to 130 dB.



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Ref No. 298/11/2020-21

Date: 30/11/2020

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar

Sampling Date : 11/11/2020

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01	Dozer D8 - N (CAT)	82.4	82.4	71.2
02	Hyundai - 140 Excavator	85.2	83.1	70.5
03	Tata - 200 Excavator	82.5	80.4	72.3
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
04	Dozer D - 8R	84.5	80.4	71.3
05	Hyundai - 140 (LC - 9)	83.4	80.3	70.2
06	Tata - 200 Bracker	85.4	82.5	72.5
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
07	Temporary Discontinued - Not Running during visit	---	---	---

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Calibration done on : 12/09/2020

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Ref No : 198/10/2020-21

Date: 17/10/2020

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140,

District : Jamnagar.

Sampling Date : 12/10/2020

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer D8 - N (CAT)	83.5	80.3	72.3
02.	Hyundai - 140 Excavator	86.3	84.2	71.4
03.	Tata - 200 Excavator	83.4	81.5	70.2
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
04.	Dozer D - 8R	85.6	81.5	72.4
05.	Hyundai - 140 (LC - 9)	84.3	81.2	71.2
06.	Tata - 200 Bracker	86.3	80.4	70.4
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
07.	Temporary Discontinued - Not Running during visit	---	---	---

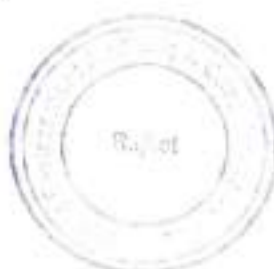
Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Calibration done on : 12/09/2020

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Ref No: 197/10/2020-21

Date: 17/10/2020

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date: 12/10/2020

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01	GOP Mines Adm. Building	51.6	43.1
02	Chorbedi Mines Adm. Building	48.7	39.5
03	Pachhtar and Pachhtardi Mines Adm. Building	51.1	41.5

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference: Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1)

Instruments used: Sound level meter, model: SL-4001 (Lutron Make)

Calibration done on: 12/09/2020

Range: (A) - 30 to 80 dB, (B) - 50 to 100 dB, (C) - 60 to 120 dB



Royal Environment Auditing & Consultancy Service

Jagdish
Analyst

CHORBEDI (COMPOSITE) LIMESTONE MINES**YEARLY EXPENDITURE STATEMENT****FOR ENVIRONMENT MANAGEMENT**

For the period of 2020-21

S. NO.	WORK	Expenditure in Rs From April 20 to March 21
1	Ambient Air & Noise Monitoring	29370
2	Water Sprinkling on haul roads	107600
3	Purchasing of Sapling	16800
4	Purchasing of Soil	3200
5	Plantation charge	331280
6	Recurring Expenses for Security and Maintenance of Plantation	132000
	Total	620250

