

SCW/MINES/ 19 /2020-21

To,

**Dy. Director General Forest (Central)
Regional Office, Western Region,
Kendriya Paryavaran Bhavan,
Link Road No. 3, E/5, Ravishankar Nagar,
Bhopal – 462016(M.P.)**

**Sub: Six monthly Environmental Clearance Compliance Status report of Sagmania
Limestone mines for the period from January, 2020 to June, 2020.**

Ref: Environmental Clearance Letter No.J-11015/271/2006-IA.II (M) Dated 27th Dec-2007.

Dear Sir,

With reference to aforesaid EC letter, we are furnishing below the point wise compliance status for your kind information:

A. Specific conditions

- (I) Mining Lease of Sagmania Limestone Mines was granted by M.P. Govt. for Mining of limestone as such it is deemed to be already diverted.
- (II) All conditions stipulated by State Pollution Control Board in their NOC is already implemented.
- (III) Our Mining operation is extended vertically down below upto the depth of 20 mtr. only whereas ground water table starts from 25 mtr. below ground level, therefore mining operation never intersect Ground water table in any case.
- (IV) **No natural water course is obstructed due to mining operation.**
- (V) Top Soil generated is presently used directly for reclamation & rehabilitation in the backfilled area. Top soil is generated during removal of soil overburden which is spread over reclaimed area for plantation with suitable trees as a part of rehabilitation of excavated area. Top soil has been stacked earlier with proper slope for soil ridge all around the mining lease boundary line with plantation to make a green belt.
- (VI) The entire waste generation is already used in backfilling of excavated area for reclamation & rehabilitation. The backfilling is carried out upto the level of normal ground level. At the end of mines life dumps will be re-handled for backfilling of excavated area and planted. As per approved Mining Plan we follow the practices of Reclamation, Rehabilitation & Afforestation programme.
- (VII) At the end of Mines life void left unfilled shall be converted into water body as per the condition laid down.
- (VIII) Collected rain water is utilized for watering the mines area, roads and green belt development etc.

- (IX) We have planted total 20000Nos of trees in 9 Hectare area in year 2019-20and survival rate is 80%.Now afforestation programme would be as per approved Mining plan.
- (X) Haulage road are adequately sprayed with water by sprinkler installed water tanker. Trees are planted on both side of road to arrest air borne dust. Our existing crusher are equipped with Bag Dust Collector, Pocket filters etc which ensure adequate suppressions of air borne dust in crusher with arrangement of water spraying at all transfer points. The Ambient air quality monitoring parameters are well within permissible limits of the proposed standard of SPM & RPM.
- (XI) Suitable conservation measures to augment ground water resources in the area is carried out by making huge water reservoir in the worked out pit to recharge the ground water table.
- (XII) Ground Water level & Quality monitoring is carried out in & around mining lease area in all the four seasons. The monitoring Report is carried out four times in a year-pre-monsoon (April-May), Monsoon (August), post monsoon (November) & winter (January). All collected data is also sent regularly to concerned authority. Reference Sheet is attached. **(Annexure-I)**
- (XIII) Rain water harvesting measures are taken by making trenches/slopes all around the pits to collect the rain water in the bottom benches.
- (XIV) Prior approval of the competent authority for withdrawal of ground water will be taken if required for project. Application has been submitted to competent authority of CGWB, Bhopal for withdrawal of ground water.
- (XV) Existing Crushers are equipped with Bag dust collectors, Pocket filters. De-dusting cyclones etc. which ensures adequate suppression of air borne dust in crusher and conveyor belt transfer points. There is also adequate arrangement of water spraying at crusher hopper and conveyor belts.
- (XVI) Blasting operation is always carried out only during daytime with controlled blasting method. Monitoring of vibration is being done in regular interval with the help of new InstantelMicromate vibration monitoring equipment.
- (XVII) Drill machines are equipped with water injection system to suppress the dust and Dust collection system which is continuously operating to avoid dust getting airborne.
- (XVIII) Vibration (Peak Particle Velocity-PPV) is being monitored in regular interval by new InstantelMicromate and kept well within permissible limits. Safe limit of PPV is 10 mm/second as per recommendation given by DGMS.**(Annexure -II)**
- (XIX) Complied.
- (XX) Vehicular emission is under control. Appropriate measures are taken for maintenance of Heavy Earth Moving Machinery. Hauling Vehicles ply within ML area and are loaded as per OEM recommendation & not overloaded.

- (XXI) Digital processing by remote sensing technique of the entire lease will be done regularly once in three years for monitoring land use pattern & report will be submitted to MOEF & its Regional Office.
- (XXII) STP is not applicable in our case as very less quantity of waste water is generated from our residential colony. ETP is provided at workshop for mining waste water.
- (XXIII) FMCP along with details of Corpus fund will be submitted to MOEF 5 years in advance of final mine closure for approval.

B. General Conditions

- (I) There is no change in mining technology & scope of working.
- (II) There is no change in the Calendar plan.
- (III) Conservation measures for protection of flora & fauna in the core & buffer zone is taken up.
- (IV) Four ambient air quality monitoring stations are already established for monitoring of PM10, PM2.5, SO₂ and NO₂. Fortnightly ambient air quality monitoring data is enclosed (**Annexure-III**). In addition to this 02 nos. CAAQMS has been installed at Quarry Station no.1 (In South direction) & Quarry Station no.2 (In North direction) and online AAQ data is transmitting continuously to CPCB & MPPCB.
- (V) Fugitive dust emission from all the sources is already under controlled, regular monitoring is being done & data recorded. Water spray system is provided at all dust prone areas & maintained regularly.
- (VI) Adequate measures are taken for controlling noise level. Regular monitoring of the noise level is being done and found within the stipulated norms. Workers are provided ear plugs / muffs etc. where ever necessary.
- (VII) Noted.
- (VIII) Noted.
- (IX) Person working in dust prone areas are provided with dust mask. Adequate training and information regarding Safety and health aspects is provided to them. OHS programme of the workers is under taken periodically.
- (X) Fully equipped environmental laboratory is already in function and is working satisfactorily.
- (XI) Separate Environmental Management cell with suitable qualified Personnel is already formed under the control of senior executive, directly reporting to organization head.
- (XII) CSR Expenses for the year 2019-20 is enclosed as **Annexure-IV**.
- (XIII) Noted.
- (XIV) **Regularly being submitted.**
- (XV) Noted.
- (XVI) Noted

(XVII) Noted

(XVIII) Advertisement had been published during EC process.

- Enclosures: 1) Ground Water monitoring Report. (Annexure-I)
2) PPV monitoring sheet. (Annexure-II)
3) Air monitoring Sheets. (Annexure-III)
4) CSR Expenses for the year 2019-20(Annexure-IV)

Hope the above furnished information's are in order.

With regards,

Yours Faithfully
For **Birla Corporation Limited**
Unit – **Sagmania Limestone Mines**

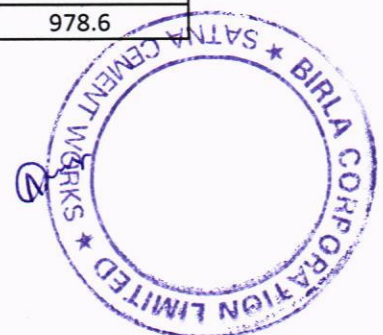

(Rajesh Chaubey)
AVP (Mines)

Cc:

1. Director
Ministry of Environment, Forest & Climate Change (Gol)
Indira Paryavaran Bhawan
Jorbagh Road, New Delhi- 110003
2. Member Secretary
M.P. Pollution Control Board
Paryavaran Parisar
E- 5 / Arera Colony, Bhopal – 462 016
3. Regional Director
Central Pollution Control Board,
Regional Directorate (Central),
Paryavaran Parisar,
E-5, Arera Colony, Bhopal (M.P.)
Bhopal -462016




Drishti-2018 : Encardio-rite Electronics Pvt. Ltd.				
SiteName : Birla Corporation Ltd Satna M.P				
01.01.2020 To 31.03.20				
Datetime	Battery Voltage (V)	Ground Water Level (m)	Water Temperature (degC)	Barometric Pressure (hPa)
2020-01-01 06:00:00	7.33	-13.69	27.5	979.1
2020-01-01 18:00:00	7.34	-14.07	27.5	979.8
2020-01-02 06:00:00	7.34	-13.7	27.5	979.9
2020-01-02 18:00:00	7.35	-14.08	27.5	978.6
2020-01-03 06:00:00	7.34	-13.68	27.5	977.6
2020-01-03 18:00:00	7.35	-13.47	27.5	977.1
2020-01-04 06:00:00	7.35	-13.33	27.5	977.2
2020-01-04 18:00:00	7.35	-13.44	27.5	976.9
2020-01-05 06:00:00	7.35	-13.31	27.5	978.2
2020-01-05 18:00:00	7.35	-13.8	27.5	978.3
2020-01-06 06:00:00	7.34	-13.27	27.5	979.8
2020-01-06 18:00:00	7.34	-13.47	27.5	979.8
2020-01-07 06:00:00	7.34	-13.48	27.5	978.3
2020-01-07 18:00:00	7.35	-13.74	27.5	975.5
2020-01-08 06:00:00	7.34	-13.54	27.5	974.1
2020-01-08 18:00:00	7.35	-13.61	27.5	972.2
2020-01-09 06:00:00	7.34	-13.28	27.5	976.2
2020-01-09 18:00:00	7.35	-13.39	27.5	978.8
2020-01-10 06:00:00	7.34	-13.3	27.5	979.1
2020-01-10 18:00:00	7.35	-13.46	27.5	979.2
2020-01-11 06:00:00	7.34	-13.32	27.5	980
2020-01-11 18:00:00	7.34	-13.62	27.5	979.1
2020-01-12 06:00:00	7.33	-13.53	27.5	978.2
2020-01-12 18:00:00	7.35	-13.88	27.5	975.6
2020-01-13 06:00:00	7.34	-13.67	27.5	973.9
2020-01-13 18:00:00	7.34	-13.98	27.5	972.7
2020-01-14 06:00:00	7.34	-13.93	27.5	973.6
2020-01-14 18:00:00	7.35	-14.15	27.5	974.4
2020-01-15 06:00:00	7.35	-14.14	27.5	976
2020-01-15 18:00:00	7.35	-14.5	27.5	974.9
2020-01-16 06:00:00	7.35	-14.43	27.5	974.1
2020-01-16 18:00:00	7.34	-14.63	27.5	973.8
2020-01-17 06:00:00	7.34	-14.3	27.5	974.8
2020-01-17 18:00:00	7.34	-14.22	27.5	976.3
2020-01-18 06:00:00	7.34	-14.58	27.5	976.8
2020-01-18 18:00:00	7.34	-14.5	27.5	978.1
2020-01-19 06:00:00	7.34	-14.73	27.5	978.5
2020-01-19 18:00:00	7.33	-14.74	27.5	978.2
2020-01-20 06:00:00	7.34	-15.06	27.5	978.2
2020-01-20 18:00:00	7.33	-14.91	27.5	977.9
2020-01-21 06:00:00	7.34	-15.17	27.5	978.3
2020-01-21 18:00:00	7.34	-14.99	27.5	978.6



2020-01-22 18:00:00	7.34	-14.96	27.5	978.6
2020-01-23 06:00:00	7.34	-15.12	27.5	979.1
2020-01-23 18:00:00	7.34	-15.68	27.5	978.1
2020-01-24 06:00:00	7.34	-15.57	27.5	977.9
2020-01-24 18:00:00	7.34	-15.88	27.5	976.6
2020-01-25 06:00:00	7.33	-15.7	27.5	977
2020-01-25 18:00:00	7.34	-16.05	27.5	975.7
2020-01-26 06:00:00	7.34	-16.05	27.5	975.7
2020-01-26 18:00:00	7.34	-16.46	27.5	975
2020-01-27 06:00:00	7.34	-16.33	27.5	973.8
2020-01-27 18:00:00	7.34	-17.08	27.5	972.4
2020-01-28 06:00:00	7.35	-16.77	27.5	970.7
2020-01-28 18:00:00	7.34	-17.34	27.5	971
2020-01-29 06:00:00	7.34	-17.24	27.5	975
2020-01-29 18:00:00	7.33	-17.37	27.5	975.8
2020-01-30 06:00:00	7.34	-17.23	27.5	977.7
2020-01-30 18:00:00	7.34	-17.26	27.5	976.8
2020-01-31 06:00:00	7.34	-17.14	27.5	976.2
2020-01-31 18:00:00	7.34	-17.66	27.5	975.1
2020-02-01 06:00:00	7.34	-17.44	27.5	976.7
2020-02-01 18:00:00	7.34	-17.84	27.5	978.4
2020-02-02 06:00:00	7.34	-17.86	27.5	979.5
2020-02-02 18:00:00	7.34	-18.59	27.5	979.5
2020-02-03 06:00:00	7.33	-18.13	27.5	979.6
2020-02-03 18:00:00	7.34	-18.28	27.5	977.4
2020-02-04 06:00:00	7.34	-17.9	27.5	976.7
2020-02-04 18:00:00	7.34	-18.13	27.5	975.9
2020-02-05 06:00:00	7.34	-17.79	27.5	976.7
2020-02-05 18:00:00	7.33	-17.92	27.5	976.1
2020-02-06 06:00:00	7.33	-17.86	27.5	976.4
2020-02-06 18:00:00	7.33	-17.98	27.5	976
2020-02-07 06:00:00	7.33	-17.68	27.5	976.8
2020-02-07 18:00:00	7.34	-17.85	27.5	977.7
2020-02-08 06:00:00	7.33	-17.54	27.5	979.4
2020-02-08 18:00:00	7.34	-18.2	27.5	980.2
2020-02-09 06:00:00	7.33	-18.08	27.5	981.3
2020-02-09 18:00:00	7.34	-18.14	27.5	980
2020-02-10 06:00:00	7.34	-18.03	27.5	979
2020-02-10 18:00:00	7.34	-18.22	27.5	979.2
2020-02-11 06:00:00	7.34	-17.85	27.5	979
2020-02-11 18:00:00	7.33	-18.3	27.5	979.5
2020-02-12 06:00:00	7.34	-18.23	27.5	979.8
2020-02-12 18:00:00	7.33	-19.17	27.5	978.5
2020-02-13 06:00:00	7.34	-18.63	27.5	977.3
2020-02-13 18:00:00	7.33	-18.78	27.5	974.8
2020-02-14 06:00:00	7.34	-18.61	27.5	973.8
2020-02-14 18:00:00	7.34	-18.97	27.5	972.8
2020-02-15 06:00:00	7.34	-19.2	27.5	974.4
2020-02-15 18:00:00	7.33	-19.3	27.5	974.7
2020-02-16 06:00:00	7.34	-19.5	27.5	976.3



2020-02-16 18:00:00	7.34	-19.79	27.5	976.9
2020-02-17 06:00:00	7.34	-18.99	27.5	977.6
2020-02-17 18:00:00	7.33	-18.4	27.5	978
2020-02-18 06:00:00	7.33	-18.77	27.5	976.4
2020-02-18 18:00:00	7.33	-19.22	27.5	975.2
2020-02-19 06:00:00	7.34	-19.94	27.5	975.8
2020-02-19 18:00:00	7.33	-20.6	27.5	974.8
2020-02-20 06:00:00	7.34	-20.64	27.5	974.6
2020-02-20 18:00:00	7.33	-20.39	27.5	973.8
2020-02-21 06:00:00	7.33	-20.46	27.5	974
2020-02-21 18:00:00	7.33	-21.01	27.5	975.1
2020-02-22 06:00:00	7.34	-20.74	27.5	978.4
2020-02-22 18:00:00	7.33	-20.34	27.5	977.8
2020-02-23 06:00:00	7.34	-19.95	27.5	977.7
2020-02-23 18:00:00	7.34	-19.34	27.5	975.4
2020-02-24 06:00:00	7.34	-18.88	27.5	974.9
2020-02-24 18:00:00	7.33	-18.7	27.5	972.8
2020-02-25 06:00:00	7.34	-18.63	27.5	973
2020-02-25 18:00:00	7.34	-18.92	27.5	973.1
2020-02-26 06:00:00	7.33	-18.93	27.5	975.1
2020-02-26 18:00:00	7.33	-19.14	27.5	975.1
2020-02-27 06:00:00	7.34	-19.09	27.5	976
2020-02-27 18:00:00	7.34	-19.48	27.5	975.2
2020-02-28 06:00:00	7.33	-19.49	27.5	975
2020-02-28 18:00:00	7.34	-19.73	27.5	973.8
2020-02-29 06:00:00	7.34	-19.65	27.5	972.7
2020-02-29 18:00:00	7.34	-20.01	27.5	972.9
2020-03-01 06:00:00	7.34	-19.86	27.5	976.6
2020-03-01 18:00:00	7.34	-19.52	27.5	972.5
2020-03-02 06:00:00	7.34	-18.99	27.5	973.3
2020-03-02 18:00:00	7.33	-18.74	27.5	971.8
2020-03-03 06:00:00	7.33	-18.38	27.5	971.8
2020-03-03 18:00:00	7.34	-18.26	27.5	970.7
2020-03-04 06:00:00	7.34	-18.08	27.5	971.2
2020-03-04 18:00:00	7.34	-18.11	27.5	971.5
2020-03-05 06:00:00	7.34	-17.93	27.5	970.5
2020-03-05 18:00:00	7.33	-17.97	27.5	969.6
2020-03-06 06:00:00	7.34	-17.81	27.5	970.1
2020-03-06 18:00:00	7.33	-17.87	27.5	968.8
2020-03-07 06:00:00	7.34	-17.78	27.5	972.8
2020-03-07 18:00:00	7.33	-17.81	27.5	973.9
2020-03-08 06:00:00	7.34	-17.56	27.5	975.8
2020-03-08 18:00:00	7.33	-17.74	27.5	975
2020-03-09 06:00:00	7.34	-17.5	27.5	974.3
2020-03-09 18:00:00	7.33	-17.65	27.5	973.2
2020-03-10 06:00:00	7.34	-17.47	27.5	973.2
2020-03-10 18:00:00	7.34	-17.58	27.5	972.4
2020-03-11 06:00:00	7.34	-17.34	27.5	971.8
2020-03-11 18:00:00	7.33	-17.43	27.5	970.2
2020-03-12 06:00:00	7.34	-17.36	27.5	972.7



2020-03-12 18:00:00	7.32	-17.52	27.5	972.7
2020-03-13 06:00:00	7.34	-17.43	27.5	973.1
2020-03-13 18:00:00	7.33	-17.59	27.5	974.3
2020-03-14 06:00:00	7.34	-17.27	27.5	974.4
2020-03-14 18:00:00	7.33	-17.36	27.5	973.2
2020-03-15 06:00:00	7.34	-17.35	27.5	975.4
2020-03-15 18:00:00	7.33	-17.53	27.5	974.7
2020-03-16 06:00:00	7.34	-17.47	27.5	976.2
2020-03-16 18:00:00	7.33	-17.71	27.5	975.6
2020-03-17 06:00:00	7.34	-17.65	27.5	976.9
2020-03-17 18:00:00	7.33	-17.92	27.5	976.8
2020-03-18 06:00:00	7.33	-17.97	27.5	976.2
2020-03-18 18:00:00	7.32	-17.99	27.5	974.2
2020-03-19 06:00:00	7.34	-18	27.5	973.7
2020-03-19 18:00:00	7.33	-18.09	27.5	971.6
2020-03-20 06:00:00	7.34	-17.86	27.5	972.7
2020-03-20 18:00:00	7.33	-17.94	27.5	970
2020-03-21 06:00:00	7.34	-17.71	27.5	972.1
2020-03-21 18:00:00	7.33	-17.8	27.5	971.7
2020-03-22 06:00:00	7.33	-17.52	27.5	973.1
2020-03-22 18:00:00	7.32	-17.63	27.5	972.2
2020-03-23 06:00:00	7.34	-17.56	27.5	972.6
2020-03-23 18:00:00	7.33	-17.7	27.5	971.4
2020-03-24 06:00:00	7.34	-17.55	27.5	972.4
2020-03-24 18:00:00	7.32	-17.63	27.5	970.2
2020-03-25 06:00:00	7.34	-17.46	27.5	971.6
2020-03-25 18:00:00	7.33	-17.57	27.5	970.4
2020-03-26 06:00:00	7.34	-17.4	27.5	972.3
2020-03-26 18:00:00	7.34	-17.58	27.5	971.9
2020-03-27 06:00:00	7.34	-17.34	27.5	973.2
2020-03-27 18:00:00	7.34	-17.45	27.5	975.1
2020-03-28 06:00:00	7.34	-17.24	27.5	975.2
2020-03-28 18:00:00	7.33	-17.36	27.5	972.2
2020-03-29 06:00:00	7.34	-17.11	27.5	973
2020-03-29 18:00:00	7.33	-17.2	27.5	971.2
2020-03-30 06:00:00	7.34	-17.05	27.5	973.8
2020-03-30 18:00:00	7.33	-17.23	27.5	971.7
2020-03-31 06:00:00	7.34	-17.05	27.5	972.8
2020-03-31 18:00:00	7.32	-17.18	27.5	970.2



Date/Time Vert at 14:00:58 June 18, 2020
 Trigger Source Geo: 0.700 mm/s, Mic: 100.00 dB(L)
 Range Geo: 254.0 mm/s
 Record Time 3.0 sec at 1024 sps
 Operator/Setup: Operator/factory.MMB

Serial Number UM12767 V 10-88 Micromate ISEE
 Battery Level 3.7 Volts
 Unit Calibration March 13, 2020 by UES New delhi
 File Name UM12767_20200618140058.IDFW

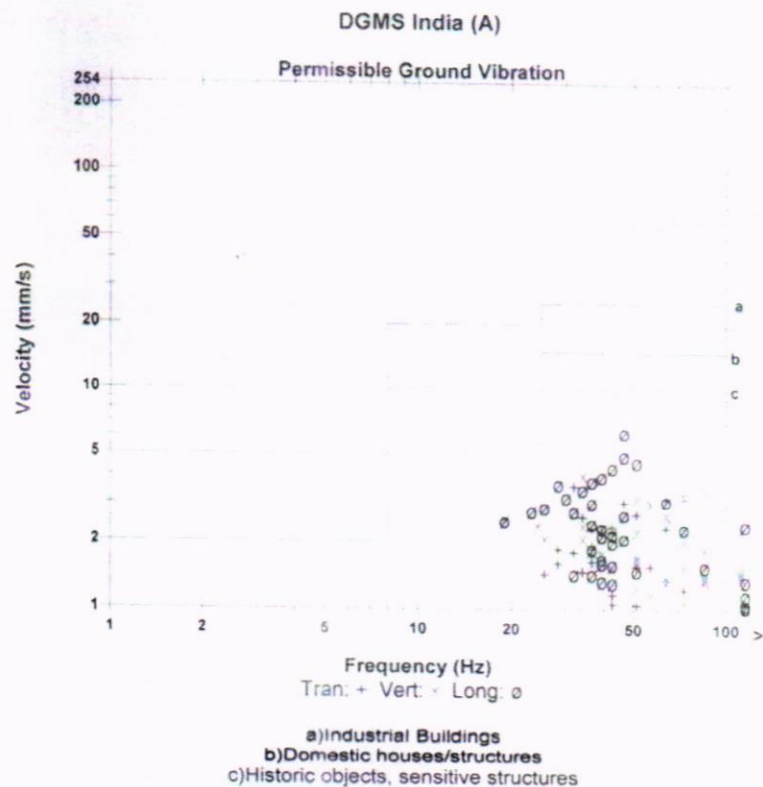
Notes
 Location
 Client
 User Name
 General

Post Event Notes
 A Quarry IInd SW
 Distance from blasting site to monitoring station 150m

Microphone Linear Weighting
 PSPL 117.1 dB(L) 14.27 pa.(L) at 0.570 sec
 ZC Freq 39 Hz
 Channel Test Check (Freq = 0.0 Hz Amp = 0 mv)

	Tran	Vert	Long	
PPV	3.610	4.067	6.274	mm/s
ZC Freq	32	34	47	Hz
Time (Rel. to Trig)	0.295	0.322	0.231	sec
Peak Acceleration	0.285	0.225	0.284	g
Peak Displacement	0.016	0.016	0.019	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.7	7.3	Hz
Overswing Ratio	4.2	3.9	4.1	

Peak Vector Sum 6.484 mm/s at 0.231 sec



SAGMANIA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

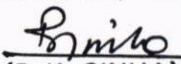
AIR QUALITY DATA OF SULPHUR DIOXIDE, OXIDES OF NITROGEN AND SUSPENDED PARTC. MATTER FOR THE MONTH OF **June - 2020**

	10 -	14	14 -	18	18 -	22	22 -	02	02 -	06	06 -	10	4 Hrly Max.	24 Hourly-Avg	PM10	PM2.5
Date	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	Ugm/m3	Ugm/m3
<u>10.06.2020</u>																
Labour Colony (E)	15.00	24.39	16.60	28.02	12.6	20.42	13.6	23.28	15.7	25.45	16.25	25.91	16.60	28.02	72.34	38.53
A-Quarry Pump house (W)	12.27	19.96	13.04	22.27	11.3	21.34	16.0	26.02	15	21.62	10.43	17.5	16.00	26.02	68.89	41.61
ANFO Mixing Shelter (N)	13.39	20.42	12.77	23.35	13.6	24.94	14.4	19.09	11.4	17.42	12.5	22.86	14.35	24.94	65.09	35.26
Quarry Dispensary (S)	15.32	23.35	13.95	24.84	16.3	25	15.1	20.36	13.8	24.39	14.29	20.9	16.25	25.00	69.52	39.95
<u>23.06.2020</u>																
Labour Colony (E)	12.50	21.34	13.04	23.86	10.9	19.96	12.9	19.16	13.3	24.39	17.9	26.47	17.87	26.47	64.92	33.00
A-Quarry Pump house (W)	15.32	24.91	17.50	25.91	15.7	27.04	14.7	21.14	15	24.39	14.29	19.2	17.50	27.04	60.18	30.72
ANFO Mixing Shelter (N)	13.64	23.28	16.09	25.84	12.0	22.76	18	23.78	15.1	25.45	13.33	24.39	18.00	25.84	67.70	34.16
Quarry Dispensary(S)	16.00	24.39	17.50	25.30	12.8	21.8	11.2	20.42	12	21.14	11.4	17.42	17.50	25.30	61.42	28.48

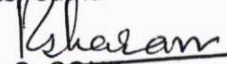
No. of Observations: 2
 Arithmetic mean: 66.2575
 Geometric mean: 66.14
 STD. GEOM deviation: 4.14
 Max. concentration: 72.34
 No. of OBS 30/40 @

1. (Preceeded by blank) Indicate missing data :
2. S.Total number of 4 hourly observations in the month :
3. @30UG/CUM SO2 rp UG/CM Nox :
4. Y Total No. of SO2 values 30 UG/CUM in month :
5. YY Total No. of Nox values of 40 UG/CUM in month :
6. NO2 Jacob Hochheiser' Sodium Arsenite Modified method using two impingers in series:

For: BIRLA CORPORATION LIMITED
 Unit: Satna Cement Works, Satna


 (R. K. SINHA)
 Manager (Env. Control)

For: BIRLA CORPORATION LIMITED
 Unit: Satna Cement Works, Satna


 (R. S. SONI)
 Technical Head

SAGMANIA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

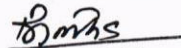
AIR QUALITY DATA OF SULPHUR DIOXIDE, OXIDES OF NITROGEN AND SUSPENDED PARTIC. MATTER FOR THE MONTH OF **MAY - 2020**

	10 -	14	14 -	18	18 -	22	22 -	02	02 -	06	06 -	10	4 Hrly Max.	24 Hourly-Avg	PM10	PM2.5
Date	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	Ugm/m3	Ugm/m3
<u>09.05.2020</u>																
Labour Colony (E)	16.96	28.63	17.50	30.49	18.6	29.93	22.2	25.45	21.7	29.58	19.53	28.93	22.17	30.49	87.70	52.24
A-Quarry Pump house (W)	21.43	32.75	22.98	31.14	20	27.44	20.8	27.64	21.9	28.63	19.09	26.61	22.98	32.75	89.10	50.89
ANFO Mixing Shelter (N)	21.25	32.01	20.45	29.93	20.9	30.22	22.5	26.47	23	31.84	21.65	25.45	22.96	32.01	84.91	54.67
Quarry Dispensary (S)	23.18	31.60	18.26	32.77	22.5	27.44	18.1	28.25	20	29.92	21.82	33.3	23.18	33.26	91.37	57.40
<u>22.05.2020</u>																
Labour Colony (E)	21.25	30.49	20.87	28.63	23.8	27.44	19.2	26.47	21.3	30.89	19.1	28.27	23.75	30.89	90.34	56.37
A-Quarry Pump house (W)	18.67	32.52	20.43	28.02	22.5	33.54	22.7	34.15	21.8	29.93	20	31.4	22.87	34.15	93.83	55.18
ANFO Mixing Shelter (N)	21.13	29.59	20.00	27.44	23.2	33.26	23.8	30.49	23	29.58	20.93	30.63	23.75	33.26	88.56	51.41
Quarry Dispensary(S)	20.50	31.40	19.53	27.23	20.4	30.22	21.8	29.93	22.2	28.63	23.4	27.44	23.35	31.40	86.51	53.07

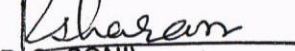
No. of Observations: 2
Arithmetic mean: 88.985
Geometric mean: 88.94
STD. GEOM deviation: 38
Max. concentration: 93.83
No. of OBS 30/40 @

1. (Preceded by blank) Indicate missing data
2. S.Total number of 4 hourly observations in the month
3. @30UG/CUM SO2 rp UG/CM Nox
4. Y Total No. of SO2 values 30 UG/CUM in month
5. YY Total No. of Nox values of 40 UG/CUM in month
6. NO2 Jacob Hochheiser' Sodium Arsenite Modified method using two impingers in series:

For: BIRLA CORPORATION LIMITED
Unit: Satna Cement Works, Satna


(R. K. SINHA)
Manager (Env. Control)

For: BIRLA CORPORATION LIMITED
Unit: Satna Cement Works, Satna


(R. S. SONI)
Technical Head

SAGMANIA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

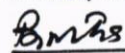
AIR QUALITY DATA OF SULPHUR DIOXIDE, OXIDES OF NITROGEN AND SUSPENDED PARTIC. MATTER FOR THE MONTH OF **MARCH - 2020**

	10 -	14	14 -	18	18 -	22	22 -	02	02 -	06	06 -	10	4 Hrly Max.	24 Hourly-Avg	PM10	PM2.5
Date	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	Ugm/m3	Ugm/m3
<u>06.03.2020</u>																
Labour Colony (E)	16.91	30.93	15.75	27.44	18.6	33.1	19.2	29.58	22.8	30.89	15.65	28.63	22.76	33.10	78.84	48.22
A-Quarry Pump house (W)	20.00	30.49	17.87	28.02	18.6	31.14	20.9	30.22	21.3	33.54	17.14	27.87	21.25	33.54	83.20	46.71
ANFO Mixing Shelter (N)	17.33	29.27	21.65	31.81	19.5	27.23	22.5	30.79	20.4	29.58	19.66	32.69	22.50	32.69	81.61	51.45
Quarry Dispensary (S)	16.74	30.63	20.87	32.77	23.3	32.01	19.1	31.6	20	27.64	17.5	28.4	23.25	32.77	84.09	49.15
<u>18.03.2020</u>																
Labour Colony (E)	19.09	28.27	20.43	31.14	17.3	29.27	17.5	28.96	18.9	30.2	21.4	31.18	21.39	31.18	85.16	50.30
A-Quarry Pump house (W)	20.35	31.81	21.25	30.49	20	28.29	19.5	27.23	22.2	29.27	18.64	29.0	22.17	31.81	80.55	44.68
ANFO Mixing Shelter (N)	23.00	31.40	19.91	28.27	19.2	29.27	18.7	28.59	21.3	31.26	20.87	29.59	23.00	31.40	83.73	47.81
Quarry Dispensary(S)	19.57	28.63	21.70	31.14	20.8	29.27	19.2	32.69	22	33.23	20.3	29.62	22.00	33.23	79.37	52.06

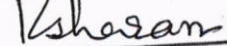
No. of Observations: 2
 Arithmetic mean: 82.0688
 Geometric mean: 82.04
 STD. GEOM deviation: 2.33
 Max. concentration: 85.16
 No. of OBS 30/40 @

1. (Preceded by blank) Indicate missing data
2. S. Total number of 4 hourly observations in the month
3. @30UG/CUM SO2 rp UG/CM Nox
4. Y Total No. of SO2 values 30 UG/CUM in month
5. YY Total No. of Nox values of 40 UG/CUM in month
6. NO2 Jacob Hochheiser Sodium Arsenite Modified method using two impingers in series:

For: BIRLA CORPORATION LIMITED
 Unit: Satna Cement Works, Satna


 (R. K. SINHA)
 Manager (Env. Control)

For: BIRLA CORPORATION LIMITED
 Unit: Satna Cement Works, Satna


 (R. S. SONI)
 Technical Head



SAGMANIA Limestone MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II


AIR QUALITY DATA OF SULPHUR DIOXIDE, OXIDES OF NITROGEN AND SUSPENDED PARTIC. MATTER FOR THE MONTH OF **FEBRUARY - 2020**

	10 -	14	14 -	18	18 -	22	22 -	02	02 -	06	06 -	10	4 Hrly Max.	24 Hourly-Avg	PM10	PM2.5		
Date	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	Ugm/m3	Ugm/m3		
07.02.2020																		
Labour Colony (E)	17.31	27.04	15.00	24.39	14.7	22.76	16.3	25	NIL	22.65	15.35	NIL	17.31	27.04	15.72	24.37	73.92	42.92
A-Quarry Pump house (W)	18.00	25.91	17.74	28.63	18.7	30.89	15.3	23.35	18.7	29.27	16.53	30.89	18.67	30.89	17.49	28.16	70.15	46.58
ANFO Mixing Shelter (N)	16.74	23.82	16.25	22.87	13	22.27	16.4	31.6	18.3	20.68	15	24.39	18.26	31.60	15.94	24.27	76.42	41.36
Quarry Dispensary (S)	12.50	27.44	16.00	29.27	14.4	27.04	NIL	33.26	19.6	NIL	13.87	31.9	19.57	33.26	15.26	29.78	72.62	39.74
19.02.2020																		
Labour Colony (E)	17.14	28.57	15.00	27.44	14.4	25.45	13.3	27.64	13.0	23.86	19.5	28.93	19.53	28.93	15.40	26.98	78.23	40.61
A-Quarry Pump house (W)	17.50	27.44	16.96	30.22	14.8	28.96	16	26.02	15.1	31.81	18.67	30.89	18.67	31.81	16.50	29.22	75.86	43.46
ANFO Mixing Shelter (N)	NIL	31.36	16.25	25.91	17	30.22	15.3	29.58	14.7	29.27	17.33	27.64	17.33	31.36	16.11	29.00	71.08	45.02
Quarry Dispensary(S)	15.00	26.61	16.74	25.52	14.6	29.57	19.6	28.63	17.3	30.89	15.3	24.91	19.57	30.89	16.43	27.69	77.55	44.82


No. of Observations: 2
 Arithmetic mean: 74.4788
 Geometric mean: 74.43
 STD. GEOM deviation: 3.01
 Max. concentration: 78.23
 No. of OBS 30/40 @

1. (Preceded by blank) Indicate missing data :
2. S.Total number of 4 hourly observations in the month :
3. @30UG/CUM SO2 rp UG/CM Nox :
4. Y Total No. of SO2 values 30 UG/CUM in month :
5. YY Total No. of Nox values of 40 UG/CUM in month :
6. NO2 'Jacob Hochheiser' Sodium Arsenite Modified method using two impingers in series:

For: BIRLA CORPORATION LIMITED
 Unit: Satna Cement Works, Satna


 (R. K. SINHA)
 Manager (Env. Control)

For: BIRLA CORPORATION LIMITED
 Unit: Satna Cement Works, Satna


 (R. S. SONI)
 Technical Head



SAGMANIA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

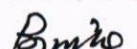
AIR QUALITY DATA OF SULPHUR DIOXIDE, OXIDES OF NITROGEN AND SUSPENDED PARTIC. MATTER FOR THE MONTH OF **JANUARY - 2020**

	10 -	14	14 -	18	18 -	22	22 -	02	02 -	06	06 -	10	4 Hrly Max.	24 Hourly-Avg	PM10	PM2.5
Date	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	Ugm/m3	Ugm/m3
<u>08.01.2020</u>																
Labour Colony (E)	14.67	22.76	17.14	27.87	16.3	25.91	15.7	25.45	17.9	28.02	18.26	29.27	18.26	29.27	69.63	38.04
A-Quarry Pump house (W)	15.43	26.13	19.04	27.68	12	26.02	19.2	28.65	13.6	23.28	16.96	30.22	19.15	30.22	73.41	45.66
ANFO Mixing Shelter (N)	15.32	29.58	15.00	25.00	13	23.86	16.6	31.14	17.7	26.61	13.33	22.76	17.73	31.14	74.12	43.42
Quarry Dispensary (S)	17.50	28.35	15.00	24.94	17.9	28.02	16.7	23.82	17.7	24.81	16.36	28.3	17.87	28.35	70.84	41.27
<u>20.01.2020</u>																
Labour Colony (E)	16.17	25.45	14.29	20.91	17.5	27.44	13.3	21.14	14.4	23.86	17.3	28.62	17.50	28.62	72.08	44.82
A-Quarry Pump house (W)	12.50	21.34	15.32	26.47	14.7	27.32	17	22.27	17.5	28.27	13.64	23.28	17.45	28.27	71.93	42.35
ANFO Mixing Shelter (N)	17.18	25.61	13.75	24.39	14.4	29.27	17.3	29.61	18.9	28.33	15.75	30.49	18.89	30.49	78.57	39.13
Quarry Dispensary(S)	14.04	26.78	13.04	23.22	15	27.44	15.8	29.58	16.7	25.45	16.9	30.6	16.91	30.60	76.21	46.71

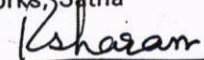
No. of Observations: 2
 Arithmetic mean: 73.3488
 Geometric mean: 73.30
 STD. GEOM deviation: 2.92
 Max. concentration: 78.57
 No. of OBS 30/40 @

1. (Preceded by blank) Indicate missing data :
2. S.Total number of 4 hourly observations in the month :
3. @30UG/CUM SO2 rp UG/CM Nox :
4. Y Total No. of SO2 values 30 UG/CUM in month :
5. YY Total No. of Nox values of 40 UG/CUM in month :
6. NO2 Jacob Hochheiser' Sodium Arsenite Modified method using two impingers in series:

For: BIRLA CORPORATION LIMITED
 Unit: Satna Cement Works, Satna


 (R. K. SINHA)
 Manager (Env. Control)

For: BIRLA CORPORATION LIMITED
 Unit: Satna Cement Works, Satna


 (R. S. SONI)
 Technical Head

BIRLA CORPORATION LTD.SATNA
CSR BUDGET FOR 2019-20

Sl. No.	Main Activities	Cumulative Budget 19-20
I	HEALTH AND SANITATION	
a	General Health check up camp including financial assistance & Medicine for treatment to the needy patients/Villagers.	1.55
b	Toilet Construction and renovation	-
c	Awareness/ Training / Distribution of Medicines etc... for Sanitation /Immunization	-
d	Mother & Child Care - to distribute baby kits/ medicines etc.	-
e	Basic infrastructure at Govt. Hospitals / Primary Health Centres e.g. building maintenance especially toilets, fans, water coolers, RO filters, wheel-chairs, beds, stretcher etc.	-
f	Infrastructure development at Anganwadis e.g. drinking water facilities, Dress, tables/ stools/ desks, fans, lights, toilets, training to Asha Sahyogini etc.	0.26
g	Eye check up camp & surgery (Through Udhav Dham Sewa Samiti)	0.10
h	Development of nearby slum areas & assistance to the local inhabitants for organizing games/social functions.	-
i	Support to Birla hospital	0.23
	TOTAL I	2.14
II	WATER	
a	Project on drinking water supply for nearby Villages Community	5.48
b	Deepening / repair of water bodies (Overhead tanks/ Ponds/handpumps, "Anicut" etc.)	
c	Construction of overhead tanks / enhancement of water storage in Villages	
d	To contribute towards "Mukhya Mantri Jal Swablamban Abhiyan - (MJSA)" projects in 3rd phase.	
e	To provide permanent water connection from PHED at Rajiv Gandhi Garden, opp. M. P. Birla Hospital & Research Centre, Chittorgarh.	
	TOTAL II	5.48
III	EDUCATION	
a	Scholarship to the meritorious student	
b	Assistance for schools such as Infrastructure , Books , Bags, Uniforms, Computer, table and Benches for school children	1.78
c	Organising competition to motivate students	-
d	Support for quality of education through teachers training / workshop and prevention of drop out	-
e	Free Primary School and computer classes at Cement Colony.	-
f	School building/Toilets repair & renovation in villages	5.59
g	Support to Birla school	4.21
h	Support for Setting up of Old Age Homes	1.15
	TOTAL III	12.72
IV	LIVELIHOOD	
a	Livelihood enhancement through Advanced agricultural training and Provision of livestock to villagers(Through BAIF)	15.00
	TOTAL IV	15.00
V	RURAL INFRASTRUCTURE	
a	Cremation ground boundary wall work in Sagmaniya & Birhuli Village.	-
b	Park Renovation work at Sagmaniya workers colony.	-
c	Filling of chips and Murrum of Mela Ground in Bharjuna village	0.44
d	Development of Rural infrastructure like construction of roads / drainage system / community hall /Culvert / Bus Stop Shed etc..	-
	TOTAL V	0.44
VI	SOCIAL FORESTRY/ENVIRONMENT	
a	Maintainance of community garden, Madhav circle & Sanwaria Govt Hospital	-
b	Environmental sustainability / Plantation of trees	0.02
	TOTAL VI	0.02
VII	Others	
a	District Administration work	3.66
b	Safety awareness/ training programmes on road safety etc.	
c	Based on the requirement of stakeholders - activities will be covered under the CSR provisions of the Companies Act, 2013.	-
d	Promote of Rural Sports & national recognised Sports	0.36
e	Support to Matrya Chaya Satna	0.63
	TOTAL VII	4.65
	TOTAL I to VII	40.45



Am