

31.12.2020

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 Birhuli Limestone mines for the period from July, 2020 to December, 2020.

Ref: Environmental Clearance Letter No.J-11015/122/2005-IA.II (M) Dated 6th August, 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

EC Sr. No.	EC conditions	EC Compliance Status
(i)	The environmental clearance is subject to approval of the State Land use Department, Government of Madhya Pradesh for diversion of agricultural land for non-agricultural use	Mining Lease of Birhuli Limestone Mines was granted by Govt. of Madhya Pradesh on dated 11.2.2004 and same was executed on 03.01.2006 for mining of limestone, Copy of grant order and lease deed is enclosed for reference as Annexure -1.
(ii)	All the conditions stipulated by the State Pollution Control Board in their NOC should be effectively implemented	All conditions stipulated by State Pollution Control Board in their NOC are already implemented. Copy of NOC vides letter no. 22342/TS/MPPCB/2004 dated 22.12.2004 and the detailed compliance status is enclosed as Annexure -2.
(iii)	The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. Prior approval of the Ministry of Environment & Forests and Central Ground Water Authority shall be obtained for mining below water table.	Mining operation is restricted to above ground water table. Prior permission will be taken for mining below water table.

(iv)	The project proponent shall ensure that no natural watercourse shall be obstructed due to any mining operations.	No any natural water course is passing through mining lease area. Surface plan is enclosed for reference as Annexure -3 .
(v)	Top soil should be stacked with proper slope at earmarked site (s) only with adequate measures and should not be used for reclamation and rehabilitation of mined out areas.	Top Soil generated is concurrently used directly for reclamation & rehabilitation in the backfilled areas. Top soil is generated during removal of soil overburden, which is spread over reclaimed area for plantation. Trees are planted considering their suitability to the environment in the rehabilitated area. Top soil generated in last two year is 2745 and 11270 Cubic meter and same was utilized over backfilled area for plantation. 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 generated shall be concurrently backfilled and there shall be no external over burden dumps. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office. Bhopal on six monthly basis.	<p>The entire waste generated is being used in backfilling of excavated areas for reclamation & rehabilitation. The backfilling is carried out up to the level of normal ground level. Top soil generated during removal of soil overburden, is spread over reclaimed area for plantation. Reclamation & Plantation is being done in phased manner as per approved Mining Plan.</p> <p>Six monthly Compliance status is regularly being submitted to MoEF & CC and RO, Bhopal.</p> <p>Last compliance submitted vide letter no SCW/Mines/18/2020-21 dated 13.07.2020</p>
(vii)	The void left unfilled in an area of 40.65 ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	At the end of Mines life void left unfilled shall be converted into water body by making slopes gentler for easy accessibility by local people to use the water body and also as per the condition laid down. Peripheral Fencing by earthen bund is being carried out. Photographs are attached as Annexure-4 .
(viii)	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, soil, temporary OB dumps, if any, and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted, particularly after monsoon, and maintained properly.	Catch drains and siltation ponds of appropriate size are constructed for the working pit to arrest flow of silt and sediment. Collected rain water is utilized for watering the mines area, roads and green belt development etc. Photograph of Siltation pond is attached as Annexure-5 .

	Garland drain of appropriate size, gradient and length shall be constructed for mine pit and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	Garland drains of appropriate size, gradient & length are constructed. Photograph of garland drain is attached as Annexure -6 .
(ix)	Plantation shall be raised in an area of 8.45 ha including a green beltwide green belt in the safety zone around the mining lease by planting the native species around ML area, reclaimed and backfilled area, around water body, roads etc. in consultation with the local DFO/ Agriculture Department. At least 1500 trees per year shall be planted and the density of the trees should be around 2500 plants per ha.	3000 no of saplings planted in green belt area. Afforestation programme is being carried out with consultation of local Forest department, and as per their advice saplings, are being procured from various nursery & forest department nursery (receipt copy of saplings from forest department are attached as Annexure -7). Plantation is being carried out as per approved Mining plan. (Photograph of plantation is attached as Annexure -8)
(x)	Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading, unloading and transfer points and other vulnerable areas. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	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, Belt curtain at hopper etc. which ensure adequate suppressions of air borne dust in crusher with arrangement of water spraying at all transfer points. Photographs attached as Annexure – 9 . The Ambient air quality monitoring parameters are well within permissible limits of the proposed standard of SPM & RPM. Online AAQ Monitoring report is attached as Annexure-10 .
(xi)	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Mining operation started in 2009 and considering future water need and to recharge ground water table, Rain Water Harvesting Ponds were created to augment ground water resources in the mine out area.
(xii)	Regular monitoring of ground water level and quality should be carried out in and around the mine lease by establishing a network of existing wells and	Ground Water level & Quality monitoring is carried out in & around mining lease area in all the four seasons. The monitoring Report is

	<p>constructing new piezometers during the mining operation.</p> <p>The monitoring should be carried out four times in a year - pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests, its Regional Office located at Bhopal, Central Ground Water Authority and Regional Director, Central Ground Water Board.</p>	<p>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. Online Water label monitoring data by Piezometer is attached as Annexure-11.</p>
(xiii)	<p>Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.</p>	<p>As mentioned for compliance status of condition no. XIII, mining operation started in 2009 and over a period of time, the mine out pits are converted for Rain Water Harvesting by making trenches/slopes all around the pits to collect the rain water. Photograph of rain water harvesting is attached as Annexure-4.</p> <p>In addition to above we have also constructed Ground Water Recharge structure to tune-up ground water level at Colony, Hospital and Nearby School, Villages etc. The details are follows:</p> <p>A) 15 Nos of Ground water recharge structures are constructed in Staff colony, SCW plant, R K Missionary School etc.</p> <p>B) 17 nos. are planned and work shall start shortly</p> <p>C) Under CSR Activities, Construction of check dams and pond deepening at 7 locations have completed with an expenditure of Rs. 38,06,500/- till date.</p>
(xiv)	<p>The project authorities shall obtain prior approval of the competent authority for drawl of groundwater, required for the project.</p>	<p>Agreed to comply</p> <p>Presently water requirement for operational activities is being met from Rain Water Harvested in mines pit.</p> <p>However as per recent guidelines from CGWB, we have applied CGWB Bhopal for withdrawal of ground water vide letter no. 21-4/485/MP/Min/2017 dated 31.05.2017.</p>
(xv)	<p>The mineral handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements.</p>	<p>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</p>

	These should be properly maintained and operated.	<p>spraying at crusher hopper and conveyor belts. Details are as follows:</p> <p>1) Four nos. of BDC installed at crusher.</p> <p>2) Water spraying system at Crusher hopper.</p> <p>3) PVC curtain provided at Crusher hopper.</p> <p>4) Water sprinkling system provided at transfer points.</p> <p>Water sprinkling on haul road by a dedicated water tanker.</p> <p>Photograph of belt curtains at hopper and water sprinkling at Crusher hopper and Conveyor belt, BDC at belt transfer point are attached as Annexure-9.</p>
(xvi)	Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	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 InstanTel Micromate vibration monitoring equipment. Photograph of Micromate Vibration monitoring is attached as Annexure-12 .
(xvii)	Drills shall either be operated with dust extractors or equipped with water injection system.	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. Photograph of Drilling machine equipped with dust extraction system is attached as Annexure-13 .
(xviii)	The project proponent shall ensure monitoring of vibrations (peak article velocity likely to be generated) with each blast.	Vibration (Peak Particle Velocity-PPV) is being monitored at 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, attached as Annexure-14 .
(xix)	Consent to operate shall be obtained from the State Pollution Control Board before starting enhanced production from the mine.	<p>Complied.</p> <p>Consent to Operate from MPPCB is attached as Annexure-15.</p>
(xx)	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be	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. Copy of Vehicular Emission test report is attached as

	overloaded.	Annexure-16.
(xxi)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office.	Digital processing by remote sensing technique of the entire lease is being done regularly once in three years for monitoring land use pattern & report is being submitted to MoEF& its Regional Office. Copy of submission letter is attached as Annexure-17.
(xxii)	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and mine waste water.	Sewage Treatment Plant of 1080 KLD capacity is installed at staff colony to treat waste generated from colony. The treated water is used for green belt development. Effluent Treatment Plant is installed to treat waste generated due to washing of HEMM is at Mines workshop and the treated water is used for plantation. No additional waste water is generated from mining process.
(xxiii)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	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

EC Sr. No.	EC conditions	EC Compliance Status
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	There is no change in mining technology & scope of working. All working & reclamation activity is being carried out as per approved Mining Plan Copy of Production is attached as Annexure 17A.
(ii)	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	There is no change in mining technology & scope of working. All working & reclamation activity is being carried out as per approved Mining Plan Copy of Production is attached as Annexure 17A
(iii)	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with	Conservation measures for protection of flora & fauna in the core & buffer zone is taken up. A detailed plan is prepared for plantation program

	the local forest and wildlife department.	and accordingly plantation activities are being carried out. Till date 2.30 lacs saplings has been planted which include majority of local species. Most of the plant saplings are from local Forest and Wild life Department. In addition to above Vermi compost is being used for plantation, in order to develop thick green belt in and around the mines area. Vermi composting is used and sprinkling system is also provided for plantation.
(iv)	At least four ambient air quality monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO ₂ , NO _x , and CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Data on ambient air quality (RPM, SPM, SO ₂ , NO _x , and CO) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board/Central Pollution Control Board once in six months.	Four ambient air quality monitoring stations are already established for monitoring of PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ . Fortnightly ambient air quality monitoring data is enclosed. 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. Third Party AAQ Report is enclosed as Annexure 18
(v)	Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading, dumps, loading & unloading points should be provided and properly maintained.	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. Photographs on Fugitive Dust Emission enclosed as Annexure-9 .
(vi)	Adequate measures should be taken for control of noise levels within prescribed standards. Workers engaged in blasting and drilling operations, operations of HEMM, etc., should be provided with ear plugs/muffs.	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. Third Party noise monitoring reports are attached as Annexure-19 .
(vii)	Industrial wastewater (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap	The waste water generated at workshop is properly treated in ETP. Oil and Grease Trap is also installed to remove oil and grease. The treated water is used for plantation. The treated water quality meets the standards prescribed as per GSR 422 (E).

	should be installed before discharge of effluents from workshop.	There is no additional source of waste water generation from Mining operation. Third Party analysis report is attached as Annexure-20 .
(viii)	Acid mine water, if any has to be treated and disposed of after conforming to the standard prescribed the competent authority.	Not applicable Pyritic Sulphur content in Lime stone is very low. Hence no acid mine water is anticipated.
(ix)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to radioactive mineral dust and take corrective measures, if needed. The same programme may be extended to adjoining villages also.	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. Training report attached as Annexure-21 . Occupational health & Safety surveillance programme as per mining act/rules is carried out and sample result attached as Annexure 21 (A) .
(x)	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	Fully equipped environmental laboratory is already in function and is working satisfactorily. Photographs attached as Annexure-22 .
(xi)	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive, who will report directly to the Head of the organization.	Dr. Sunil Kasture is joined as Head Sustainable Development who is having Doctorate Degree in Environment Science and M.Sc. in Environment Science. He is having more than 18 year's rich of experience in the field of industrial environment management and pollution control. He is reporting directly to Unit Head. Environmental Management cell comprises Environment Manager, Environmental Engineer and monitoring team. Well-equipped environmental laboratory of is established. Organization structure of Environment is attached as Annexure-23 .
(xii)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year-wise expenditure Should be reported to the Ministry of Environment and Forests and its Regional Office, Bhopal.	Environmental Expenses for the year 2019-20 is attached as Annexure-24 .
(xiii)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions.	Complied

	The Project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/monitoring reports.	
(xiv)	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhopal, Central Pollution Control Board and State Pollution Control Board.	Regularly being submitted.
(xv)	A copy of the clearance letter will be marked to the concerned Panchayat /local NGO, if any, from whom any suggestions/representation has been received while processing the proposal.	Complied
(xvi)	The project authorities should inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Complied Financial assurance is submitted to Indian Bureau of Mines along with Mining Plan for final mine closure. The date of start of land development work was intimated while obtaining CTE.
(xvii)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry center and Collector's/Tehsildar's Office for 30 days.	Not Applicable
(xviii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the 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 and a copy of the same should be forwarded to the Regional Office of this Ministry located Bhopal.	Advertisement had been published during EC process. Paper cutting is attached as Annexure-25 .

Hope the above furnished information's are in order.

With regards,

Yours faithfully,
for BIRLA CORPORATION LIMITED
Unit- Birhuli Limestone Mines



Sunil Kasture
Head - Sustainable Development

Cc.

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

: आदेश :

भीषाल, दिनांक

क्रमांक एक 2-163/2001/12/2: यह कि जिला सतना के ग्राम बिरहुली में निम्न अनुसार आवेदकों द्वारा चुनावस्थल खनिज की खनि रिमायत प्राप्त करने के लिए आवेदन पत्र प्रस्तुत किए गए :-

क्रमांक	आवेदक का नाम	आवेदन दिनांक एवं प्रकार	आवेदित रकबा
1.	श्री जय मिश्रा	15.11.99/पीएल	76.50 एकड़
2.	श्री रामचन्द्र कुमार अग्रवाल	- -	123.50 एकड़
3.	श्री माकूल खान	- -	94.73 एकड़
4.	मैसर्स प्रिन्स सीमेंट	24.11.99/पीएल	139.00 एकड़
5.	मैसर्स प्रिन्स सीमेंट	24.11.99/एमएल	139.00 एकड़
6.	श्री सुकुन्धा जयलाल	28.7.2000/पीएल	-
7.	श्री सुकुन्धा जयलाल	29.7.2000/एमएल	-
8.	मैसर्स बिरला कार्पोरेशन लिमिटेड	30.11.99/पीएल	170.83 एकड़
9.	मैसर्स बिरला कार्पोरेशन	20.11.99/एमएल	138.83 एकड़

यह कि मैसर्स बिरला लूट एण्ड इण्डस्ट्रीज लिमिटेड वर्तमान में बिरला कार्पोरेशन लिमिटेड द्वारा जिला सतना के ग्राम बिरहुली के कुल रकबा 56.27 हेक्टर क्षेत्र पर चुनावस्थल खनिज का खनिपट्टा स्वीकृत करने हेतु दिनांक 22.11.1999 को आवेदन पत्र प्रस्तुत किया था आवेदित क्षेत्र राज्य सरकार के शासन दिनांक 14.9.1984 से स्टील उद्योग के लिए सुरक्षित होने के कारण आदेश क्रमांक 3-125/87/1991 दिनांक 23.6.1987 से विरत किया गया जिसके विरुद्ध मैसर्स बिरला लूट ने भारत सरकार, खान मंत्रालय के समक्ष पुनरीक्षण आवेदन क्रमांक 2/एमपी-6/89/एम-एच प्रस्तुत किया जो भारत सरकार खान मंत्रालय द्वारा अपने अंतिम आदेश क्रमांक 328/99 दिनांक 16.12.1999 से खारिज कर दिया यद्यपि पारित आदेश में यह भी उल्लेख किया गया कि पुनरीक्षणकर्ता आवेदक को उसके द्वारा स्थापित सीमेंट संयंत्र के लिए चुनावस्थल की आपूर्ति करने के लिए अतिरिक्त चुनावस्थल की आवश्यकता है, अतः यदि राज्य सरकार भी सुझा प्रोचित करती है एवं पुनरीक्षणकर्ता आवेदक पुनः उसे लिये से आवेदन प्रस्तुत करता है तो उसके द्वारा प्रस्तुत किए जाने वाले नये आवेदन एवं अन्य आवेदन यदि कोई प्राप्त हो, का निराकरण नियमानुसार किया जाये।

37/ यह कि राज्य शासन द्वारा दिनांक 15.10.1999 को की गई रिवायत निवारायती, 1960 के नियम 59 के अंतर्गत ऐन द्वारा घोषित करने की अधिसूचना प्रकाशित की गई है उक्त ग्राम बिरहुली भी शामिल है। अधिसूचना में यह भी उल्लेख किया गया है कि इन क्षेत्रों में उपलब्ध भूमि के आधार पर बड़े उद्योग लगाने हेतु इच्छुक व्यक्तियों को भूमि रिवायत देने में प्रथमिकता दी जायेगी। अधिसूचना के प्रकाशित होने के तत्पश्चात् दिनांक बाद सभी रिवायत स्वीकृत करने हेतु उपरोक्तानुसार पूर्वोक्त अनुज्ञापित के 8 एवं अनिवार्य के 3 कुल 9 आवेदन मत्र प्राप्त हुये।

38/ यह कि प्रकरण के निराकरण के लिए सभी आवेदकों को समय में सुनवाई का अवसर प्रदान किया।

39/ सुनवाई दिनांक को बिरला कारपोरेशन की ओर यह अवगत कराया गया कि आवेदित क्षेत्र ग्राम बिरहुली जिला सतना रकबा 156.270 हेक्टर पर उन्हें पूर्ण हथीका आसन से लगा हुआ है एवं यह निकट भविष्य में ही एक तीसरा सीमेंट प्लांट स्थापित करने का रहे हैं जिसके लिए उन्हें अतिरिक्त सुनायरकर भंडार की आवश्यकता है। उन्हें इस स्वीकृत होने से राज्य शासन को भी अतिरिक्त राजस्व प्राप्त होगा एवं प्रदेश में सीमेंट उत्पादन में भी बढ़ोत्तारी होगी। अतः उनके द्वारा उद्योग लगाने के आधार पर इसे उन्हें स्वीकृत करने का निवेदन किया।

40/ सुनवाई दिनांक को मुख्य न्यायाधीश के द्वारा यह तर्क प्रस्तुत किया गया कि उक्त द्वारा आवेदित क्षेत्र उनके परिवार की निजी भूमि है जो उसे स्वीकृत की जाये। अन्य आवेदक बाद सुनवाई के अनुपस्थित रहे।

41/ यह कि राज्य शासन द्वारा यह क्षेत्र इस आधार पर कुल घोषित किया गया था कि जो आवेदक बड़ा उद्योग स्थापित करेंगे उन्हें भूमि रिवायत देने में प्रथमिकता दी जायेगी। चूंकि मात्र बिरला कारपोरेशन लिमिटेड द्वारा ही एक और सीमेंट प्लांट स्थापित करने के लिए सुनायरकर की मांग की गई है। भारत सरकार द्वारा भी आवेदक के पूर्ण विधीयन आवेदन मत्र के निराकरण आदेश में आवेदक को अतिरिक्त क्षेत्र उपलब्ध कराने का सुझाव दिया गया है। कनेक्टर सतना द्वारा यह अवगत कराया गया है कि बिरला कारपोरेशन लि. द्वारा अनिवार्य में आवेदित क्षेत्र 38.02 एकड़ क्षेत्र में से मात्र 6.06 एकड़ भूमि है। अन्य आवेदक श्री सुकुन्द नारायण के गवाही की है न कि उक्तकी स्थिति की ओर न ही सुकुन्द नारायण अतिरिक्त क्षेत्र में उपलब्ध भूमि पर कोई उद्योग स्थापित करने का समय ही

अनुबंध निष्पादन के पूर्व यह सुनिश्चित करें कि उनिपट्टा में स्वीकृत ऐन वनसंरक्षण अधिनियम, 1980 के प्रावधानों से प्रभावित तो नहीं होता है एवं आवेदक के ऊपर उनिपट्टा संबंधी कोई राशि लकाया तो नहीं है।

11/ वन उनिपट्टा आवेदन पत्र के आवेदकों द्वारा अभिलेखित अनुसार बिलों कि ऐन लुना धोआ मिखा गया था के अनुसार तोमेंट अथवा अन्य कोई बड़ा उद्योग स्थापित नहीं करने के कारण एवं ऐन उपलब्ध नहीं होने से एतद्वारा निरस्त किए जाते हैं।

मध्यप्रदेश के राज्यपाल के नाम से तथा
आदेशानुसार,

हस्ताक्षर

{डॉ. विक्रम जे. एन. लाम्बा}

अवर सचिव
मध्यप्रदेश शासन
वन विभाग

पु. क्र. एफ. 2-163/2001/12/2

गोपाल, दिनांक 11/2/04

प्रतिनिधि- कलेक्टर, जिला सातना म. प्र. की ओर सूचार्थ एवं आवश्यक कार्यवाही हेतु

- 2- संवाहक, सीमिकी तथा उनिपट्टा म. प्र. गोपाल
- 3- डिप्टी कलेक्टर जनरल ऑफिस माइंस सेक्टर गन्नाबाद
- 4- कन्ट्रोलर जनरल इंडियन ब्यूरो ऑफ माइंस नागपुर
- 5- क्षेत्रीय खान निबंधक भारतीय खान ब्यूरो जबलपुर
- 6- श्री अनय मिश्रा, पुत्र श्री आर. एन. मिश्रा, धावरी जिला सातना म. प्र.
- 7- श्री राजेन्द्र कुमार अग्रवाल निवासी जैतवारा जिला सातना म. प्र.
- 8- श्री. माकूब खान पुत्र श्री एम. एन. खान, द्वारा कलेक्टर जिला सातना म. प्र.
- 9- मेसर्स ग्रिज्म सीमेंट लिमिटेड ग्राम मनकहरनी पो. बडिया जिला सातना म. प्र.
- 10- मेसर्स बिरला कार्पोरेशन लिमिटेड पो. बिरला विकास जिला सातना म. प्र.
- 11- श्री सुकुमार जायसवाल, जायसवाल भवन, कोलगांव जिला सातना म. प्र.

की ओर सूचार्थ।

हस्ताक्षर

अवर सचिव

मध्यप्रदेश शासन, वन विभाग



FORM-K 3733

MODEL FORM OF MINING LEASE

(See Rule 31)

When the
Lessee is an
individual

THIS INDENTURE made this 30-12-2005 day of 200 between the Governor of _____ the President of India (hereinafter referred to as the State Governments which expression shall where the context so admits be deemed to include the successors and assigns) of the one, part, and _____ (Name of person with address and occupation) (hereinafter referred to as "The Lessee" which expression shall where the context so admits be deemed to include his heirs, executors, administrators, representatives and permitted assigns).

When the
Lessee are more
than one individual

(Name of person with address and occupation) and _____ (Name of person with address and occupation) (hereinafter to be called as the lessee which expression shall where the context so admits be deemed to include their respective heirs, executors, administrators, representatives and their permitted assigns)

When the Lessee is
a Registered Firm

(Name and address of partner) son of _____ of _____ son of _____ of _____ son of _____ of _____ son of _____

When the Lessee is
a Registered
Company

all carrying on business in partnership under the firm name and style of _____ (Registered under the Indian Partnership Act 1932 (9 of 1932) and having their registered office at _____ in the town of _____ (hereinafter referred to as "The Licensee" which expression where the context so admits be deemed to include all the said partners their respective heirs, executors, legal representatives and permitted assigns).

M/s Birla Corporation Ltd Cement Division Satna
(Name of Company) a company registered under COMPANY'S Act 1956 under which incorporated) and having its registered office at 9/1 R.N. Mukherjee Road, Calcutta. (Address) (hereinafter referred to include its successors and permitted assigns) of the other part.

WHEREAS THE Lessee has/have applied to State Government in accordance with the mineral concession Rules 1960 (hereinafter referred to as the said Rules) for a mining lease for limestone. In respect of the lands described in Part I of the Schedule hereunder written and has/have deposited with the State Government the sum of Rs.10,000/- as security & the sum of Rs.1,000/- for meeting the preliminary expenses for a mining lease (and WHEREAS the Central Government has approved the grant of the lease)

WITNESSETH that in consideration of the rents and royalties covenants and agreements by and in these presents and the schedule hereunder written reserved & contained and on the part of the lessee/lessees to be paid observed and performed the State Government (with the approval of the Central Government) hereby grants and demises unto lessee/lessees.

All those the mines beds/veins seems of LIMESTONE (here the mineral or minerals) (hereinafter and in the schedule referred to as the said rals situated lying and being in or under the lands which are referred to in part 1 the said schedule, together with the liberties powers and privileges

पुनरावृत्ति रूप पत्रिका
संख्या (४०३०)

FIR, BIRLA CORPORATION LTD.

(Cement Division)

Satna Cement Works

Satna

M.P.

(M. NARAYAN)

President

राज्य सरकार
मुख्यमंत्री
संख्या (म.प्र.)

to be exercised enjoyed in connection herewith which are mentioned in part II of the said Schedule subject to the restriction and conditions as to exercise and enjoyment of such liberty powers and privileges which are mentioned in part III of the said Schedule EXCEPT and reserving out of this demise upto the State Government the liberties, powers privileges mentioned in part IV of the said Schedule TO HOLD the premises here granted and demise unto the lessees from the 31/12/2006 for the term of 30 years thence next ensuing YIELDING AND PAY therefore unto the State Government the several rents and royalties mentioned Part V of the said Schedule at the respective times therein specified subject to the provisions contained in Part VI of the said Schedule and lessee/lessees hereby covenant with the State Government as in part VII of the said Schedule is expression and the State Government hereby covenants with the lessee/lessees as in part VIII the said schedule as expressed AND it is hereby mutually agreed between the part IX hereto as in part IX of the said Schedule is expressed.

IN WITNESS WHERE OF these presents have been executed in manner hereunder appearing day and year first above written.

The Schedule above referred to

PART - I THE AREA OF THIS LEASE

Location and area of the lease:-

All that tract of lands situated at BIRHULI Description of area or are 56.270 Hectare in (Pargana) in Raghurajnagar the Registration Dist. Satha, Thana Kolgawan bear Cadastral Survey Nos. KHASRA NO. ENCLOSED containing an area of 56.270 Hectare or there about delineated on the plan here to annexed and thereon coloured RED and bounded as follows.

On the North by - VILLAGE BARIKALAN & BARAJ

On the South by - VILLAGE ONLY PART OF BIRHULI

On the East by - PART OF BIRHULI VILLAGE

and

On the West by - VILLAGE NAINA

Hereinafter referred to as "the said lands"

PART - II

Liberties, powers and privileges to be exercised and enjoyed by the lessee/lessees subject to the restrictions and conditions in part III.

1. Liberty and power at all times during the term hereby demised to enter upon the said lands and to search for mine bore big drill for win work press process convert carry away and dispose of the said Mineral/minerals.

To enter upon land
and search for win
work etc.

FOR BIRLA CORPORATION LTD.
By
J. S. MARWAHA
President

J. S. MARWAHA
President

राज्य खनि अधिकारी
सतना (म.प्र.)

Chyren



Q. 2. Explain the following:-

ମୁଁ ଯେ ଦୀନାବଳୀ

क्या है अविद्या का तो ज्ञान से अविद्या का
अविद्या का ज्ञान ही ज्ञान स्वभाव का
ज्ञान ही ज्ञान का अविद्या का ज्ञान
ज्ञान ही ज्ञान का ज्ञान ही ज्ञान का ज्ञान

7-10-1968

ਜੇ ਅਜੇ ਵੀ ਭੈਰਵ
ਜਾਂ ਕੁਝ ਹੋਵੇ...

.....

214 B45 41901-1220

2. 3. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845

3. सौर प्रोजेक्ट विभागाध्यक्ष/विभागाध्यक्ष
की विभागाध्यक्ष के विवरण में भी पूर्ण है।
आप सहित।

उप-संजीवक
सहस्र

To sink drive &
make pits shafts &
incline etc.

2. Liberty and power for or in connection with any of the purpose mentioned in this part to sink drive make maintain and use in the said lands any pits shafts inclines drafts levels waterways airways, and other works [and to use maintain deepen or extend any existing works of the like nature in the said lands].

To bring and use
machinery
equipment, etc.

3. Liberty and power for or in connection with any of the purposes mentioned in this part to erect construct maintain and use on or under the said lands any engines machinery plant dressing floors furnaces coke ovens brick-kilns workshops store houses bungalows godowns sheds and other buildings and other works and conveniences of the like nature on or under the said lands.

To make roads and
ways and use
existing roads and
ways

4. Liberty and power for or in connection with any of the purposes mentioned in this part to make any tramways, railways roads, landing grounds and other ways in or over the said lands and to use maintain and go and repass with or without horses cattle wagons aircrafts locomotives or other vehicles over the same (or any existing tramways railways roads and other ways in or over the said lands) on such conditions as may be agreed to.

To get building and
road materials etc.

5. Liberty and power for in connection with any of the purposes mentioned in the part to quarry and get stone gravel and other building and roads materials and clay and to use and employ the same and to manufacture such clay into bricks or tiles and to use such bricks or tiles but not to sell any such material bricks or tiles.

To use water from
streams etc.

6. Liberty and power for or in connection with any of the purpose mentioned in this part but subject to the right of any existing or future lessees and with the written permission of Deputy Commissioner Collector to appropriate and use water from any streams water sources springs or other sources in or upon the said lands and to divert step up or down any such stream or water source and collect or impound any such water and to make construct and maintain any water-source culverts drains or reservoirs but not as to deprive any cultivated lands, villages, buildings or watering places for livestock of a reasonable supply of water as before accustomed not in any way to foul or pollute any streams or springs. Provided that the lessee/lessees shall not interfere with the navigation in any navigable stream or shall divert such stream without the previous written permission of the State Govt.

To use land for
staking heaping
depositing
purposes.

7. Liberty and power to enter upon and use a sufficient part of the surface of the such lands for the purpose of stacking heaping storing or depositing therein any produce of the mines or works carried on and any tools equipment earth and materials and substances dug or raised under the liberties & power mentioned in this part.

Beneficiation and
conveying away of
production.

8. (a) Liberty and power to enter upon and use a sufficient part of the said land to beneficiate any ore produced from the said lands and to carry away such beneficiated ore.

To make coke [To
be used in case of
coal only]

- (b) Liberty and power upon the said lands to convert into coke any coal or coal dust produced from the said lands and of carry away such coke.

For, BIRLA CORPORATION LTD.
(Mining Division)
At the Mining Works
P.O. Bikaner, Rajasthan

S. MAHWALI
President

सहायक खनि अधिकारी
राजस्थान (म.प्र.)

Copy



Blank

10/15/05 11:05 AM 9905

10/15/05 11:05 AM 9905

9

10/15/05 11:05 AM 9905

10/15/05 11:05 AM 9905

10/15/05 11:05 AM 9905

10/15/05 11:05 AM 9905

10/15/05 11:05 AM 9905

To clear brushwood
to fell and utilise
trees, etc.

9. Liberty and power for or in connection with any of the purposes mentioned in this part and subject to the existing rights of others and save as provided in clause 3 of part III of this Schedule to clear undergrowth and brush wood and brush wood and to fell and utilise any trees or timber standing or found on the said lands provided that the State Govt. may ask the lessee/lessees to pay for any trees or timber felled and utilised, by him/them at the rates specified by the Deputy Commissioner Collector or the State Govt.

PART - III

Restrictions and conditions as to the exercise of the Liberties, Powers and Privileges in Part - II

No building etc.
upon certain places.

1. No building or thing shall be erected set up or placed and no surface operations shall be carried on or upon any public pleasure ground burning or burial groundings place held sacred by any class of persons or any house or village site public road or other place which the State Govt. may determine as public ground not in such a manner as to injure or prejudicially effect any building work property or rights of other persons and no Land shall be used for surface operations which is already occupied by persons other than the State Government for works or purpose not included in this lease. The lessee/Lessees shall not also interface with any right of way, well or tank.

Permission for
surface operations
in a land not already
in use

2. Before using for surface operations any land which has not already been used for such operations, the lessee/Lessees shall give to Deputy Commissioner/Collector of the District two calendar months previous notice in writing specifying the name or other description of the situation and the extent of the land proposed to be so used and the purpose for which the same is required and the said land shall not be so used if objection is issued by the Deputy Commissioner-Collector within two months after the receipt by him of such notice unless the objections so stated shall in reference to the State Government be annulled or waived.

To cut trees in
unreserved lands

3. The lessee/Lessees shall not without the express sanction to the Deputy Commissioner/Collector cut down or injure any timber or trees on the said lands but may without such sanction clear away any brushwood or undergrowth which interferes with any operations authorised by these presents. The Deputy Commissioner/Collector of the State Government may require the lessee/lessees to pay for any trees or timber felled and utilised by him/them at the rates specified by the Deputy Commissioner/Collector of the District.

To enter upon
reserved for lands

4. Notwithstanding any thing in this Schedule contained the lessee/lessees shall not enter upon any reserved forest included in the said lands without previous sanction in writing of the District Forest Officer not fell cut and use any timber or trees without obtaining the sanction in writing of that officer not otherwise than in accordance with such conditions as the State Government may prescribe.

No Mining
operations within 50
Meters of Public
works etc.

5. The lessee/Lessees shall not work or allow to be worked or carried on any mining operations after to any point within a distance of 50 metres from any railway line except with the previous written permission of the Railway Administration concerned or beneath any ropeway or any ropeway trestle or station except under in accordance with the written permission of the authority site owing the ropeway or

BIRLA CORPORATION LTD.

(P. S. MAHWAL)
President

राज्यक खनि अधिकारी
राजपुरा (र.प्र.)



from any reserved canal or other public work such as public road and buildings or inhabited site except with the previous written permission of the Deputy Commissioner/ Collector or any other officer authorised by the State Government in this behalf and other wise in accordance with such instructions, restrictive and condition either general or special which may be attached to such permission. The said distance of 50 metres shall be measured in the case of railway reservoir or canal horizontally from the outer toe of the tank or the outer edge of the cutting as the case may be and in case of a building horizontally from the plinth thereof in the case of village roads no working shall be carried on within a distance of the 10 meters of the outer edge of the cutting except with the previous permission of Deputy Commissioner/ Collector or any other officer duly authorised by the State Government in this behalf and otherwise than in accordance with such directions, restrictions and additions, either general or special, which may be attached to such permission.

Explanation - For the purposes of this clause the expression 'Railway Administration' shall have the same meaning as it is defined to have in the Indian Railway Act 1880, by clause(6) of section 3 of that Act, 'Public Road' shall mean a road which has been constructed by artificially surfaced as distinct from a track resulting from repeated use, Village road will include any track shown in the Revenue record as village road.

Facilities for
adjoining Govt.
license & lease

6. The lessee/lessees shall allow existing and future holder of Government licences or leases over any land which is comprised in or adjoins or is reached by the land held by the lessee/lessees reasonable facilities or access thereto.

PROVIDED THAT no substantial hindrance or interference shall be caused by such holders of licences or leases to the operations of the lessee/lessees under these presents and fair compensation [as may be mutually agreed upon or in the event of disagreement as may be decided by the state Government] shall be made to the lessee/lessees for loss or damage sustained by the lessee/lessees by reason of the exercise of this liberty.

PART - IV

Liberties, powers and Privileges reserved to the State Government

To work other
minerals

1. Liberty and Power for the State Government or to any lessee or persons authorised by it in that behalf of enter into and upon the said lands and to search for win work dig get raise dress process convert and carry away minerals other than the said minerals and any other substances and for those purpose to sink, drive, make, erect, construct maintain and use such pits shafts inclines drifts levels and other lines water ways, airways, water courses, drains, reservoirs, engine, engines machinery plant building canals tramways railways roadways and other works and conveniences as may be deemed necessary or convenient.

PROVIDED THAT in the exercise of such liberty and power no substantial hinderance, or interference shall be caused to or with the liberties powers and privilege of the lessee/lessees under these present and that fair compensation [as may mutually agreed upon or in consequence of disagreement as may be decided by the state Government] shall be made to the lessee/lessees for all loss or damage sustained by the lessee/lessees by reason or in consequence of the exercise of such liberty and power.

For. BIRLA CORPORATION LTD.
(Cement Division)
H. S. MARWAH
President

सहस्रमुख खनिज निगम
सचिव (म.प्र.)

(Signature)

To make Railways
and roads



2. Liberty and power for the State Government or any lessee or person authorised by it in that behalf to enter into an upon the said lands and to make upon over or through the same any railways, roadways or pipe lines for any purpose other than those mentioned in part II of these presents and to get from the said lands stones gravel earth and other materials for making maintaining and repairing such railways tramways and roads or any existing railways and roads and to go and repass at all time with or without horses, cattle or other animals carts, wagons, carriages locomotives or other vehicles over or along any such Railways, tramways, roads lines and other ways for all purposes and as occasions may require provided that in the exercise of such liberty and power by such other lessee or person no substantial hinderance or interference shall be caused to or with the liberties powers and privileges of the lessee/lessees under these presents and that fair compensations as may be mutually agreed upon or in the event of disagreement as may be decided by the State Government shall be made to the lessee/lessees for all loss or damage substantial hinderance or interference shall be caused to or with the exercise by such lessee or person of such liberty and power.

PART - V

Rents and Royalties Reserved by this lease

To pay dead rent or
royalty whichever is
greater

1. The lessee shall pay for every year except first year of the lease yearly dead rent as specified in clause 2 of this Part.

Provided that where the holder of such mining lease becomes liable under section 9 of the Act to pay royalty for any mineral removed or consumed by him or by his agent manager, employer, Contractor or sub-lessee from the leased area he shall be liable to pay either such royalty or dead rent in respect of that area whichever is higher.

Rate and mode or
payment of dead
rent

2. Subject to the provisions of clause 1 of this part, during the substance of the lease the lessee/Lessees shall pay to the State Government annual dead rent for the lands demised and described in part I of this schedule at the rate for the time being specified in the third schedule to the Act in advance for the whole year on or before the 20th of the first month of the ensuing year in the District Treasury or Sub-Treasury.

Rate and mode of
payment of royalty

3. Subject to provisions of clause 1 of this part, the lessee/lessees shall during the substance of this lease pay to the State Government royalty in respect of any mineral/Minerals removed or consumed from the leased area during a month by him/them, or his/their agent manager, employee contractor or a sub-lessee exempt as exempted under section 9 (2-A) of the Act, on or before the 20th of the ensuing month in the Division District Treasury or sub treasury at the rate for the time being specified in the second Schedule of the mines and Minerals (Regulation and Development act, 1957.

Payment of surface
rent water rate

4. The lessee/lessees shall pay rent and water rate to the state government in respect of all parts of the said lands which shall from time to time be occupied or used by the lessee/lessees under the authority of the these presents at the rate of Rs. _____ and Rs. _____ respectively per annum per hectare of the area so occupied or used and in proportion for any area less than an hectare during the period from the commencement of such occupation or

AREA CO-OPERATION LTD.

10/5 MARWAH
President

Company

श्री अशोकरी
शर्मा (प.प्र.)

use until the area shall cease to be occupied or used and shall as for as possible rent & the surface land so used to its original condition surface rent and water rate shall be paid as hereinbefore detailed in class 2. PROVIDED THAT NO such rent water rate shall be payable in respect of the occupation and use of the area comprised in any road or ways to which the public have full right of access.

PART - VI

PROVISION RELATING TO THE RENTS AND ROYALTIES

1. The rent water rate and royalties mentioned in Part V of this Schedule shall be paid free from any deductions the State Government at Satna and in such manner as the State Government may prescribe PROVIDED ALWAYS and it is hereby agreed that Rs.1000/- the balance standing to the credit of the lessee/lessees on account of the deposit made by him/ them as a licensee/licensees over area which included the said lands shall be retained and receipted by the State Government in satisfaction of the rents and royalties mentioned in part V until they reach that amount.

Rent and royalties to be free from deductions etc.

2. For the purpose of computing the said royalties the lessee/lessees shall keep a correct account of the mineral/minerals produced and despatched the accounts as well as the weight of the mineral/minerals in stock or in the process of export may be checked by an officer authorised by the Central or State Government.

Mode of computation of royalty

Here specify the mode of arriving at sale price, prices at pits mouth of mineral/minerals.

3. Should any rent, royalty or other sums due to the State Government under the terms and conditions of these presents be not paid by the lessee/lessees within the prescribed time the same together with a simple interest due thereon at the rate of 15% per annum may be recovered on a certificate of such officer as may be specified by the state Government by general or special order in the same manner as an arrear of land revenue.

Course of action if rents & royalties are not paid in time

PART - VII

The Covenants of the Lessee/Lessees

1. The lessee/lessees shall pay the rent, water rate and royalties reserved by this lease at such times and in the manner provided in PARTS V & VI of these presents and shall also pay and discharge all taxes, rules, assessments and impositions whatsoever being in the nature of public demands which shall from time to time be charged/assessed or imposed by the authority of the Central and State Govt. upon or in respect of the premises and works of a like nature except demands for land revenues.
2. The lessee/lessees shall at his their own expense erect at all time maintain and keep in repair boundary marks and pillars according to the demarcation to be shown in the plain annexed to this lease. Such marks and pillars shall be sufficiently clear of the shrubs and other obstructions as to allow easy identification.

Lessee to pay rents & royalties taxes etc.

To maintain & keep boundary mark in good order

For, BIRLA CORPORATION LTD.
(Cement Division)
Bhilai-Bhilai Cement Works
Bhilai

S. MARWANI
President

31/12/2011
बिलासपुर जिला अधिकारी
बिलासपुर (म.प्र.)

To commence operations within two years and work in a workman-like manner

3. The lessee/ lessees shall commence operation within two years from the date of execution of the lease and shall thereafter at all times during the continuance of this lease search for, win, work and develop, the said minerals without voluntary intermission in a skilful and workman-like manner and as prescribed under clause 12 hereinafter without doing or permitting to be done any unnecessary or avoidable damage to the surface of the said lands or the crops buildings structure or other property thereon. For the purpose of this clause operations shall include the erection of machinery, laying of a tramway or construction of a road in connection with the mine.

To indemnify Government against all claim

4. The lessee/lessees shall make and pay such reasonable satisfaction and compensation as may be assessed by lawful authority in accordance with the law enforce on the subject for all damage injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall indemnify and keep indemnified fully and completely the State Government against all claims which may be any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection there with.

To secure & keep good condition pit shafts etc

5. The lessee/lessees shall during the subsistence of this lessee will and sufficiently secure and keep open with timber or other durable means all pits shaft and working that may be made or used in the said lands and make and maintain sufficient fence to the satisfaction of the State Government round every such pits shaft or working weather the same is abandoned or not and shall during the same period keep all working in the said lands except such as may be abandoned accessible free from water and foul air as far as possible.

To strengthen and support the mine to necessary extent

6. The lessee/lessees shall strengthen and support to the satisfaction of the Railway Administration concerned or the State Government as the case may be any part of the mine which is its opinion requires such strengthening or support for the safety of any railway reservoir, canal road and any other public work of structures.

To allow inspection of working

7. The Lessee/Lessees shall allow any officer authorised by the Central Government to or the State Govt. In that behalf to enter upon the premises including any building excavation or land comprised in the lease for the purpose of inspecting, examining, surveying prospecting and making plans thereof sampling and collecting a date and the lessee/lessees shall with proper person employed by the lessee/lessees and acquainted with the mines and work effectively assist the officer, Agents, Servants and workman in conducting every such action and shall afford them all facilities information conducted with them the working of the mines which they may, reasonably require and also shall and will conform to and observe all orders and regulations which the Central and State Governments as the results of such inspection or otherwise may from time to time are fit to impose (No.M-11 169 (44 of Date 7.9.61).

To report accident

8. The Lessee/Lessees shall without delay send to the Deputy Commissioner/ Collector a report or any accident causing death of serious bodily injury or serious to property or seriously affecting or endangering life or property which may occur in the course of the operations under this lease.

COALA CORPORATION LTD.

(P. S. MARWAH)
President

सहायक जल अधिकारी
राजपू (ज.स.)

To report discovery
of other Minerals

9. The lessee/lessees shall report to the State Government the discovery leased area of any mineral not specified in the lease within sixty days of such discovery alongwith full particulars of the nature and position of each such find. If any mine specified in the lease is discovered in the leased area, the lessee/lessees shall not dispose of such mineral unless such mineral is included in the lease or a separate obtained thereof.

To keep records & accounts recording production & employees etc.

10. The Lessee/Lessees shall at all time during the said terms keep or cause to at an office to be situated upon or near the said lands correct and intelligible accounts, which shall contain entries showing from time to time.

1) Quantity and quality of the said mineral/minerals realised from the said lands.

2) Quantity of the various qualities of ores beneficiated or converted
(for coal converted into coke)

3) Quantity of the various qualities of the said mineral/minerals sold and exported separately.

4) Quantities of the various qualities of the said mineral/minerals otherwise disposed of and the manner and purpose of such disposal.

5) The prices and shall other particulars of said mineral/minerals

6) The number of person employed in the mines or works or upon the said lands specifying nationality, qualifications and pay of the technical personnel.

7) Such other facts, particulars and circumstances as the Central or the State Govts. may from time to time require and shall also furnish free of charge to such officers and at such times as the Central and State Governments may appoint true and correct abstracts of all or any such books of accounts and such information and returns to all or any of the matters aforesaid as the State Govt. may prescribe and shall at all reasonable times allow such officers as the Central Govt. or State Govt. shall in their behalf appoint to enter into and have free access to the said officer for the purpose of examining and inspecting the said books of accounts and to make copies thereof and make extracts therefrom.

11. The lessee/lessees shall at all times during the said term maintain at the mine office correct intelligible up-to-date and complete plans and section of the mines in the said lands. They shall show all the operations and workings and all the trenches, pits and drillings made by him/them in the course of operations carried on by him/them under the lease, faults and other disturbances encountered and geological data and all such plans and sections shall be amended and filled up by and from actual surveys to be made for that purpose at the end of twelve months or any period specified from time to time and the lessee/lessees shall furnish free of charge to the Central and State Govt. true and correct copies of such plans and Sections whenever these unto required. Accurate records of all trenches, pits and drillings shall show: -

To maintain plans
etc.

By BIRLA CORPORATION LTD.

Printed in Japan

MAHVAH
President

उत्पादक खनिज अधिकारी
मान्य (प.प्र.)

- a) The sub soil and strata through which they pass.
- b) Any mineral encountered.
- c) Any other matter of interest and all data required by the Central and State Governments from time to time.

The Lessee/Lesseees shall allow any officer of the Central or the State Government authorised in this behalf by the Central Government to inspect the same at all reasonable times. He/they shall also supply when asked for by the State Government the Coal Controller, Director Geological Survey of India Bureau of Mines a composite plan of the area showing thickness, dip inclination etc. of all the areas as also the quantity of receipts qualitywise.

- 11 A. The lessee shall pay a wage not less than the minimum wage prescribed by the Central or State Government from time to time.
- 11 B. The lessee shall comply with provisions of the Mines Act, 1952 and the rules made thereunder.
- 11 C. The lessee shall take measures for the protection of environment like planning trees, reclamation of land, use of pollution control device; and such other measures as may be prescribed by the Central or State Government, from time to time, at his own expense.
- 11 D. The lessee shall pay compensation to the occupier of the land on the date and in the manner laid down in these rules.
- 11 E. The lessee shall, in the matter of employment, give preference to the tribals and to the persons who become displaced because of the taking up of mining operations.
- 12. The lessee/lesseees shall be bound by such rules as may be issued from time to time by the Government of India under section 18 of the Mines and Minerals (Regulation and Development Act 1957 (Act 67 of 1957) and shall not carry on Mining or other operations under the said lease in any way other than the prescribed under these rules.
- 13. Unless specifically exempted by the State Govt. the lessee/ lesseees shall provide and at all times keep at or near the pit head or each of the pit head at which the said minerals shall be brought to bank a properly constructed and efficient weighing machine and shall weigh or cause to be weighed thereon all the said minerals from time to time brought to bank sold exported and converted and also the converted products shall at the close of each day cause the total weights, ascertained by such means of the said minerals ores products raised sold exported and converted during the previous twenty four hours to be entered in the aforesaid books of accounts. The lessee/lesseees shall permit the State Govt. at all times during the said term to employ any person or persons to be present at the weighing of the said minerals as aforesaid and to keep accounts thereof and to check the accounts kept by the lessee/lesseees. The lessee/Lesseees shall give seven days previous notice in writing to the Deputy Commissioner/ Collector or every such measuring or weighing in order that some officer on his behalf may be present thereat.

Act 67 of 1957

To provide weighing machine

COAL MINING LTD.

11/11/57
MANU AH

Signature

Signature

14. The lessee/lessees shall allow any person or persons appointed in that behalf by the State Govt. at any time or times during the said term to examine and test every weighing machine to be provided and kept as aforesaid and the weights used there with in order to ascertain whether the same respectively are correct and in good repair and order and if upon any such examination or testing any such weighing machine or weights shall be found incorrect or out of repair order the state Government may require that the same be adjusted repaired and put in order by at the expense of the lessee/lessees and if such requisition be not complied with within fourteen days after the same shall have been made, the State Government may cause such weighing machine or weights to be adjusted repaired and put in order and the expense of so doing shall be paid by the lessee/lessees to the state Government on demand and if upon any such examination or testing as aforesaid any error shall be discovered in any weighing machine or weights to the prejudice of the State Government such error shall be regarded as having existed for three calendar months previous to the discovery thereof from the last occasion of so examining and testing the same weighing machine and weights in case such occasion shall be within such period of three months and the said rent and royalty shall be paid and accounted for accordingly.

To allow test of
weighing machine

15. The lessee/lessees shall make and pay reasonable satisfaction and compensation for all damage injury or disturbance of person or property situated both in private and Government land which may be done by or on the part of lessee/lessees in exercise of the liberties and power granted by these presents and shall at all times have harmless and keep indemnified the State Govt. from the and against all suits, Claims and demands which may be brought or made by any person or persons in respect of any such damage, injury or disturbances, in case of Govt. Land the lessees shall grant compensation equal to sixty or ninety times of land revenue (that may be assessed in case it has not been assessed) in case of lease upto 20 and 30 years respectively.

To pay
compensation for
injury or third parties

16. The lessee/lessees will exercise the liberties and powers here by granted in such a manner as to offer no unnecessary or reasonably avoidable obstruction or interruption to the development and working within the said land, of any minerals not included in this lease and shall at all times afford to the Central and State Government and to the holders of prospecting licences or mining lease in respect of any such minerals within any land adjacent to the said lands as the said lands as the case may be reasonable means to access and safe and convenient passage upon and across the said lands to such minerals for purpose of getting working developing and carrying away the same provided that the lessee/lessees shall receive reasonable compensation for any damage or injury which he/they may sustain by reason or in consequence of the use of such passage by such lessee or holders of prospecting licences.

Not to obstruct
working of other
minerals

17. The lessee/lessees shall not without the previous consent in writing of the State Government.

Transfer of lease

- a) assign, subject, mortgage or in any other manner transfer the Mining lease or any right title or interest therein or

For, BIRLA CORPORATION LTD.
(Cement Division)
Ulrich/Birla Cement Works
Bhilai, Chhattisgarh

MARWAHA
President

21/11/2011
11:00 AM
Bhilai (B.C.)

- b) enter into or make any arrangement contract or understanding whereby the lessee/lessees will or may be directly or indirectly financed to a substantial extent by, or under which the lessees, operations or undertakings will or may be substantially controlled by any persons body of persons other than lessee/lessees.

Provided that the State Government shall not give its written consent unless -

- a) the lessee has furnished an Affidavit along with this application for transfer to the Mining lease specifying therein the amount that he has already taken or proposes to taken as consideration from the transferee

- b) the transfer of the Mining lease is to be made to a person or body directly undertaking Mining operations.

- 2) Without prejudice to the above provisions, the lessee/lessees may subject to the conditions specified in the proviso to rule 35 of the said Rules transfer this lease or any right, title or interest therein to a person holding a certificate of approval and an Income-Tax clearance certificate from the Income-Tax Officer concerned on payment of a fee of Rupees one Hundred to the State Government.

Provided that the lessee/lessees shall make available to the transferee the original or certified copies of all plans of abandoned working in the area and in a belt 65 metres wide surrounding it.

Provided further that where mortgage is an institution or bank or a Corporation specified in Schedule V it shall not be necessary for any such institution or bank or Corporation to hold the said certificate or Approval and the said Income-tax clearance certificate.

- 3) The State Government may, by order in writing determine the lessee at any time if the lessee/lessees has/have in the opinion so the State Govt. committed a breach of any of the above provisions or has/have transferred the lease or any right, title or interest therein otherwise than in accordance with clause (2) provided that no such order shall be made without giving the lessee/lessees a reasonable opportunity of stating his/their case.

18. The lessee shall not be controlled and the lessee/lessees shall not allow themselves to be controlled by any trust, syndicate, Corporation, Firm or person except with the written consent of the controlled by Central Govt. the lessee/lessees shall not enter or may be directly or indirectly financed by or under which the lessee/lessees operations or undertaking will or may be carried on directly by or indirectly or for the benefit of or subject to the Control of any Trust, Syndicate, Corporation, Firm or person unless with the written sanction given prior to such arrangement compact or understanding being entered into or made of the Central Government and any or every such arrangement compact or understanding as aforesaid (entered into or made with suction as

Not to be
financed or a trusts
Corporation firm of
person

For, BIRLA CORPORATION LTD.
(Cement Division)
Units: Satna Cement Works
Birla Vikas Cement

(P. S. MARWAH)
President


सहायक वणि अधिकारी
सतना (म.प्र.)

aforesaid) shall only be entered into or made and shall always be subject to an express condition binding upon the other party or parties there to that on the occasion of a State of Emergency of which the president of India in his discretion shall be the sole judge it shall be terminable if so required in writing by the State Government and shall in the event of any such requisition being made be forth with thereafter determined by the lessee/lessees accordingly.

Lessee shall deposit
any additional
amount necessary



Delivery of working
in good order to
state Govt. after
determination of
lease

Right of
pre-exemption

19. Whenever the security deposit of Rs.10,000/- or any part thereof or any further sum thereafter deposited with the State Government in replenishment thereof shall be forfeited or applied by the Central or State Govt. pursuant to the power hereinafter declared in that behalf the lessee/lessees shall deposit with the State Government such further sum as may be sufficient with the unappropriated part thereof to bring the amount in deposit with the State Government upto the sum of Rs.10,000/-.
20. The lessee/lessees shall at the expiration or sooner determination of the said term or any renewal thereof upto the State Government all mines pits shafts inclines drifts levels waterways airways and on or under the said lands except such as have been abandoned with the sanction of the State Government and in any ordinary any fair course of working all engines, machinery, plant buildings, structures, other works and convenience which at the commencement of the said term whereupon or under that said land and all such machinery set up by the lessee/lessees below ground which cannot be removed without causing injury to the mines or work under the said lands except such of the same as may with sanction of the State Government have become discussed and all buildings and structures of bricks or stone erected by the lessee/lessees above ground level in good repair order and conditions and fit in all respects for further working of the said mines and said minerals.
21. (a) The State Government shall from time to time and all times during the said term have the right (t) be exercised by notice in writing to the lessee/lessees laying in or upon the said lands, hereby demised or elsewhere under the control of the lessee/lessees and the lessee/lessees shall with all possible expenditure deliver all minerals or products or minerals purchased by State or pre-emption of the said minerals (and all products Government under the power conferred by this provision in the quantities at the time in the manner and at the place specified in the notice exercising the said right.
- (b) Should the right of pre-emption conferred by this present provision be exercised and vessel chartered to carry the minerals or products thereof procured on behalf of the State Govt. or the Central Govt. be detained on demurrage at the part of loading the lessee/lessees shall pay the amount due for demurrage according to the terms of the chartered party of such vessel unless the state government shall be satisfied that the delay is due to cause beyond the control of the lessee/lessees.
- (c) The price to be paid for all minerals or products of minerals taken in pre-emption by the State Govt. in exercise of the right hereby conferred shall be the fair market price prevailing at the time of pre-emption PROVIDED THAT in order to assist the arriving at the

For. BIRLA CORPORATION LTD.

(Cement Division)
Bhilai Works
Bhilai, Madhya Pradesh

S. NARWAHI
President

राज्य सरकार
सचिव (म.प्र.)

said fair market price the lessee/lessees shall if so required furnish to the State Governments for the confidential information of the Government particulars of the quantities descriptions and prices, of the said minerals or Products thereof sold to other customers and of charters entered into for freight or carriage of the same and shall produce to such officers as may be directed by the State Govt. original or authenticated copies of contracts and charter parties entered into for the sale of freightage of such minerals or products.

- (d) In the event of the existence of a state of war or emergency (of which existence the President of India shall be the sole judge and a notification to this effect in the Gazette of India shall be conclusive proof) the State Government with the consent of the Central Govt. shall from time to time all time during the said term have the right (to be exercised by a notice in writing of the lessee/lessees) forthwith take possession and control of the works

plant, machinery and premises of the lessee/lessees on or in connection with the said lands or operation under this lease and during such position or control the lessee/lessees shall conform and obey all directions given by or on behalf of the Central Government of state Government regarding the or employment of such work plant, premises and minerals PROVIDED and fair compensation which shall be determined in default of Agreement by the state Government shall be paid to the lessee/lessees for all loss or damage sustained by him them by/reason or in consequence of the exercise of the power, conferred by this clause and PROVIDED also that the exercise of such powers shall not determine the said term hereby granted or effect the terms and provisions of those present further than may be necessary to give effect to the provisions of this clause.

Employment of
foreign national

22. The lessees shall not employ in connection with the mining operation any person who is not an Indian national except with the previous approval of the Central Govt.

Recovery of
expenses incurred
on the State Govt.

23. If any of the works or matters which in accordance with the convenient in that behalf therein before contained are to be carried or performed by the lessee/lessees be not to carried out or performed within the time specified in that behalf, the State Government may cause the same to be carried out or preferred and the lessee/lessees shall pay the State Govt. on demand all expenses which shall be incurred in such carrying out or performance of the same and the decision of the State Govt. as to such expense shall be final.

Furnishing of
geophysical data

24. The lessee/lessees shall furnish
- (a) All geophysical data relating to Mining held or engineering and ground water surveys such as anomaly map plans logging collected by him/them during the course of mining operations to the Director, Geological Survey of India, Calcutta.
- (b) All information pertaining to investigations of radio active minerals collected by him/them during course of mining operation to the Secretary Department of Atomic Energy, New Delhi)

Data or information referred to above shall be furnished every year reckoned from the date of commencement of the period of the Mining Lease.

By BILKA CORPORATION LTD.
(Present Division)

Work

done

MARWAH
President

सहायक खनि अधिकारी
राज (व.स.)

PART - VIII

The covenants of the State Government

Lessee/Lesseees
may hold enjoy
rights quietly.

1. The lessee/lessees paying the rents and royalties hereby reserved and observing and performing all the covenants and agreements contained and on the part of the lease/lessees to be observed and performed shall and may quietly hold and enjoy the rights and premises hereby demised for an during the term hereby granted without any unlawful interruption from or by the State Govt. or any person rightfully claiming under it.
2. If in accordance with the provision of Clause 4 of part VII of this Schedule the lessee/lessees shall offer to pay to an occupier of the surface of any part of the said lands compensation for any damage or injury which may arise from the proposed operations of the lessee/lessees and the said occupier shall refuse his consent to the exercise of the right and powers reserved to the State Govt. and demised to the lessee/lessees by these presents and the lessee/lessees shall report the matter to the State Govt. and shall deposit with it the amount offered as compensation and if the Central and State Govt. are satisfied that the amount of compensation offered is fair and reasonable or if it is not so satisfied and the lessee shall have deposited with it such further amount as the State and Central Govt. shall consider fair and reasonable the State Govt. shall order the occupier to allow the lessee/lessees to enter the land and to carry out such operations as may be necessary for the purpose of this lease. In assessing the amount of such compensation the State Govt. shall be guided by the principles of the Land Acquisition Act.

Acquisition of lands
of third parties and
compensation
thereof

To Renew

3. The mining lease is renewable in terms of the provisions of the Act and the rules made thereunder.

Provided that the State Government may for reasons to be recorded in writing reduce the area applied for.

If the lease is in respect of minerals specified in First Schedule to the Act renewed will be subject to the prior approval of the Central Government.

If the lessee/lessees be desirous of taking a renewed lease of the premises hereby demised or any part or parts of them for a further term from the expiration of the term hereby granted and is otherwise eligible, he/they shall prior to the expiration of the last mentioned term give to the State Govt. six calendar months previous notice in writing and shall pay the rents, rates and royalties hereby reserved and shall observe and perform the several covenants and agreement herein contained and on the part of the lessee/lessees to be .. and performed upto the expiration of the term hereby granted. The State Govt. on receipt of application for renewal shall consider it in accordance with rule 280 the said rules and shall pass orders as it deem fit. If renewal is granted the State Govt. will at the expense of the lessee/lessees and upon his executing and delivering to the State Govt. if required a counterpart thereof execute and delivery to the lessee/lessees a renewed lease of the said premises or part thereof for the further 10 years at such rents rates and royalties and on terms and subject to such covenants and agreements including the present covenants to renew as shall be in accordance with the mineral concession Rules 1960 applicable to **LIMESTONE** (Names of minerals) on the day next following the expiration of the term hereby granted.

For, BIRLA CORPORATION LTD.

(Contract Division)

By Secretary

Signature

By Secretary

Signature

सहायक वन अधिकारी
प्रभु (न.स.)

Liberty to determine
the lease

4. The lessee/lessees may at anytime determine this lease by giving not less than 12 calendar month notice in writing to the State Government or to such officer, or authority as the State Govt. may specify in this behalf and upon the expiration of such notice provided that the lessee/lessees shall upon such explanation tender and pay all rents water rates, royalties compensation for damages and other moneys which may then be due and payable under these presents to the lessor or any other person or persons and shall deliver these presents to the State Government then this lease and the said term and the liberties powers and privileges hereby granted shall absolutely lease and determine but without prejudice to any right or remedy of the lesser in respect of any breach of any of the covenants or agreements contained in these presents.

- 4A) The State Govt. may on an application made by the lessee permits him to surrender one or more minerals from his lease which is for a group of minerals on the ground that deposits of that mineral have since exhausted or depleted to such a extent that is so long as possible to work the mineral economically subject to the condition that the lessee.

- (a) Makes an application for such surrender of mineral at least six months before the intended date of surrender and
- (b) given an undertaking that he will not cause any hindrance in the working of the minerals so surrendered by any other person who is subsequently granted a mining lease for that Mineral.

Refund of security
deposit

5. On such date as the State Government may elect within calendar months after the determination of this lease or of any renewal thereof, the amount of the security deposit paid in respects of this lease and then remaining in deposit with the State Govt. and not required to be applied to any of the purposes mentioned in this lease shall be refunded to the lessee/lessees. No interest shall run on the security deposit.

PART IX

General Provisions

Obstructions to
inspection

1. In case the lessee/lessees his/their transfer assignee do not allow entry or inspection by the officers authorised by the Central or State Govt. under Clause (1)(1) of (1) sub-rule (1) of rule 27 of said Rules the State Govt. shall give notice in writing to the lessee/lessees requiring him/them to show cause within such time as may be specified in the notice why the lease should not be determined and his/their security deposit forfeited and of the lessee/lessees fails to fall show cause within the aforesaid time in the satisfaction of the State Government may determine the lease and ... the whole or ... of the security deposit.

Penalty in case of
default in payment
of rent, water & royalty

2. If the lessee/lessees or his/their transferring or assignee makes/make any default in payment of rent or water rate or royalty as required by Section 9 of the Act or commit breach of any of the conditions and covenants other than those referred to in clause (1) above the State Government shall give notice to the lessee/lessees requiring him/them to pay the rent water rate, royalty or remedy the breach as the case may be within sixty days from the date of receipt of the notice and if the rent, water rate and royalty are not paid or the breach is not remedied within such period, the State Government may without prejudice to any proceedings that may be taken against him/them determine the case and forfeit the whole or part of the

Penalty for repeated
breaches to
covenants

Failure to fulfill the
terms of lease due
to "Force Majeure"



Lessee/Lesseees to
remove his/ their
properties on the
expiry of lease

Forfeiture of
property left more
than six months
after
determination of
lease

Notice

3. In cases of repeated breaches of covenants and agreements by the lessee/lessees for which notice has been given by the State Government in accordance with clauses (1) and (2) afore mentioned on earlier occasion, the State Government without giving any further notice, may impose such penalty not exceeding twice the amount of the annual deed rent specified in clause 2 part V.
4. Failure on the part of the lessee/lessee to fulfill any of the terms and conditions of this lease shall not give the central of State Government any claim against the lessee/lessees or be deemed breach of this lease in so far as such failure is considered by the said Government to arise from "Force Majeure" and if through "Force Majeure" the fulfillment by the lessee/lessees of any of the terms and condition of this lease be delayed the period of such delay shall be added to the period fixed by this lease. In this clause the expression "Force majeure" means Act of God, war, insurrection, riot, civil commotion, strike earthquake, tide, storm, tidal wave flood, lightning, explosion, fire earthquake and any other happening which the lessee/lessees could not reasonably prevent or control.
5. The lessee/lessees having first paid and discharged the rent and royalties payable by virtue of those presents may at the expiration or sooner determination of the said term or within six calendar months thereafter (unless the lease shall be determined under clauses 1 and 2 of this part and in that case at any time not less than three calendar months not more than six calendar months after such determination take down and remove for his/their own benefit all or any engines, machinery, plant, building structure tramways, railways and other works, erections and convenience which must have been erected set up or placed by the lessee/lessees in or upon the said lands and which the lessee/lessees is are not bound to deliver to the State Government under clause 20 of Part VII of this Schedule and which the State Government shall not desire to purchase.
6. If at the end of six calendar months after the expiration or sooner determination of the said term under the provision contained in clause 4 of Part VIII of this schedule become effective there shall remain in or upon the said land any ²[ore or mineral] engines, machinery plant buildings structures tramways, Railways and other work erections and convenience or other property which are not required by the lessee/lessees in connection with operations in any other lands hold by him/them under prospecting licence or mining lease the same shall if not removed by the lessee/lessees within one calendar month after notice in writing requiring their removal has been given to the lessee/lessee by the State Government be deemed to become the property of the State Govt. and may be sold or disposed of in such manner as the State Govt. shall deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof.
7. Every notice by these presents required to be given to the lessee/lessees shall be given in writing to such person resident on the said lands as the lessee/lessees may appoint for the purpose of receiving such notices and if there shall have been no such appointment then every such notice shall be sent to the lessee/lessees by registered post addressed to the lessee/lessees at the address recorded in this lease or at such other address in India as the lessee/lessees may from time to time in writing to the State Govt. designate for the receipt of notices and every such service shall be deemed to be proper and valid service upon the lessee/lessees and shall not be questioned or challenged by him/them.

For, BIRLA CORPORATION LTD.
(Cement Division)

Units: Sotha Cement Works
Birla Vikas Cement

(P. S. MARWAH)
President

Signature
BIRLA CORPORATION LTD.
(Cement Division)

5. In any event the orders of the State Government a revised, renewed or canceled by the Central Government in pursuance of proceedings under Chapter VII of the mineral Concession Rules 1960 the lessee/lessees shall not be entitled to compensation for any loss sustained by the lessee/lessees in exercise of the powers and privilege conferred upon him/their by these presents.

6. The lease is executed at SATNA the capital town of the State of Madhya Pradesh (name of the State) and subject to the provision of Article 226 of the Constitution of India, it is hereby agreed upon by the lessee and the lessor that in the event of any dispute in relation to the area and lease, condition of lease, the dues realizable under the lease and in respect of all matters touching the relationship of the lessee and the lessor, the suits (or appeals) shall be filed in the civil courts at SATNA (name of the city) and it is hereby expressly agreed that neither party shall be competent to file a suit or bring any action or file any petition at any place other than the courts named above.

7. For the purpose of stamp duty the anticipated royalty from the leased land Rs. 1280,000 per year

8. WITNESS WHEREOF these presents have been executed in the presence hereunder appearing the day and year first above written.

WITNESSES

सहायक खनि अधिकारी
राज्य (for)

Signed by

(COLLECTOR)

and behalf of the Governor/President of India
In the presence of

WITNESSES

Signed by the lessee

For: **BIRLA CORPORATION LTD.**
(Cement Division)
Units: Satna Cement Works
Birla Vikas Cement

(S. MARWALA)
President

Dr. Ben [Signature]

3 JAN 2006

मात्रा सहित...
 को प्रत्यक्ष प्रमाण...
 को 50.1 के रूप में...
 प्रमाण 3733 देकर पंजीयन...
 किया गया।

78+104.



उप पंजीयन
 सत्या

प्रमाणित उप पंजीयन
 बहाल (म.प्र.)

प्रमाणित शुल्क...
 रसीद...
 इस दस्तावेज़...
 की प्रमाण...
 किया गया...
 मूल्य...
 प्रति लिखित रूप...

पंजी 1000 -

उप पंजीयन

प्रमाणित उप पंजीयन
 बहाल (म.प्र.)

सत्या

BIRLA CORPORATION LIMITED (CEMENT DIVISION) SATNA

Khasra Schedule of Limestone Mining Lease area over an area of 56.270 Hectares
in village Birhuli, Tehsil Raghuraj Nagar, District Satna (M.P.)
(West side of the Satna Semariya Road)

| Sl.No. | Khasra No. | Area in Hec. | Area required for Mining Lease in Hec. | Remarks |
|--------|------------|--------------|--|---------|
| 1 | 2 | 3 | 4 | 5 |
| 1 | 1 | 5.592 | 5.592 | |
| 2 | 2 | 0.142 | 0.142 | |
| 3 | 3 | 3.469 | 3.469 | |
| 4 | 5 | 0.579 | 0.579 | |
| 5 | 7 | 0.166 | 0.166 | |
| 6 | 11 | 3.784 | 3.784 | |
| 7 | 12 | 4.929 | 4.929 | |
| 8 | 13 | 4.573 | 4.573 | |
| 9 | 16 | 1.214 | 1.214 | |
| 10 | 15 | 1.149 | 1.149 | |
| 11 | 9 | 0.595 | 0.595 | |
| 12 | 10/1 | 0.664 | 0.664 | |
| 13 | 10/2 | 0.664 | 0.664 | |
| 14 | 10/3 | 0.664 | 0.664 | |
| 15 | 10/4 | 0.668 | 0.668 | |
| 16 | 8 | 1.546 | 1.546 | |
| 17 | 14 | 1.137 | 1.137 | |
| 18 | 18/1 | 0.567 | 0.567 | |
| 19 | 18/2 | 0.567 | 0.567 | |
| 20 | 18/3 | 0.567 | 0.567 | |
| 21 | 18/4 | 0.563 | 0.563 | |
| 22 | 18/835/1 | 2.104 | 2.104 | |
| 23 | 18/835/2 | 0.700 | 0.700 | |
| 24 | 18/835/3 | 0.700 | 0.700 | |
| 25 | 18/835/4 | 0.700 | 0.700 | |
| 26 | 4/1A | 0.028 | 0.028 | |
| 27 | 4/1B | 0.028 | 0.028 | |
| 28 | 4/1C | 0.109 | 0.109 | |
| 29 | 4/1D | 0.028 | 0.028 | |
| 30 | 4/1E | 0.109 | 0.109 | |
| 31 | 4/1F | 0.028 | 0.028 | |
| 32 | 4/2 | 0.081 | 0.081 | |
| 33 | 4/3 | 0.162 | 0.162 | |
| 34 | 4/4 | 0.040 | 0.040 | |
| 35 | 4/5 | 0.040 | 0.040 | |
| 36 | 6/1A | 0.040 | 0.040 | |
| 37 | 6/2 | 0.081 | 0.081 | |
| 38 | 6/3 | 0.081 | 0.081 | |
| 39 | 6/1D | 0.081 | 0.081 | |
| 40 | 6/1E | 0.081 | 0.081 | |

| Sl.No. | Khasra No. | Area in Hec. | Area required for Mining Lease in Hec. | Remarks |
|--------|------------|--------------|--|---------|
| 1 | 2 | 3 | 4 | 5 |
| 41 | 6/1F | 0.162 | 0.162 | |
| 42 | 6/1G | 0.162 | 0.162 | |
| 43 | 6/1H | 0.162 | 0.162 | |
| 44 | 6/1I | 0.162 | 0.162 | |
| 45 | 6/1J | 0.081 | 0.081 | |
| 46 | 6/2 | 0.081 | 0.081 | |
| 47 | 6/3 | 0.101 | 0.101 | |
| 48 | 6/4 | 0.101 | 0.101 | |
| 49 | 17/1/1 | 0.251 | 0.251 | |
| 50 | 17/1/2/1 | 0.097 | 0.097 | |
| 51 | 17/1/2/2 | 0.105 | 0.105 | |
| 52 | 17/1/2/3 | 0.202 | 0.202 | |
| 53 | 17/1/3 | 0.006 | 0.006 | |
| 54 | 17/2 | 0.664 | 0.664 | |
| 55 | 71/1 | 0.336 | 0.336 | |
| 56 | 71/2 | 0.065 | 0.065 | |
| 57 | 72/1 | 0.251 | 0.251 | |
| 58 | 72/2 | 0.057 | 0.057 | |
| 59 | 73 | 0.384 | 0.384 | |
| 60 | 74 | 1.177 | 1.177 | |
| 61 | 75/1A | 0.182 | 0.182 | |
| 62 | 75/1B | 1.416 | 1.416 | |
| 63 | 75/2A/1 | 1.011 | 1.011 | |
| 64 | 75/2A/2/1 | 0.283 | 0.283 | |
| 65 | 75/2A/2/2 | 0.040 | 0.040 | |
| 66 | 75/2A/2/3 | 0.040 | 0.040 | |
| 67 | 75/2A/2/4 | 0.040 | 0.040 | |
| 68 | 75/2B | 0.182 | 0.182 | |
| 69 | 76 | 1.322 | 1.322 | |
| 70 | 77 /1/1A | 0.036 | 0.036 | |
| 71 | 77 /1/1B | 0.052 | 0.052 | |
| 72 | 77 /1/1C | 0.052 | 0.052 | |
| 73 | 77 /1/1D | 0.053 | 0.053 | |
| 74 | 77 /1/1E | 0.053 | 0.053 | |
| 75 | 77 /1/1F | 0.053 | 0.053 | |
| 76 | 77 /1/1G | 0.053 | 0.053 | |
| 77 | 77 /1/1H | 0.053 | 0.053 | |
| 78 | 77/1/2/1 | 0.032 | 0.032 | |
| 79 | 77/1/2/2 | 0.182 | 0.182 | |
| 80 | 77/1/2/3 | 0.182 | 0.182 | |
| 81 | 77/2 | 0.801 | 0.801 | |
| 82 | 78/1 | 0.983 | 0.983 | |
| 83 | 78/2 | 0.405 | 0.405 | |

| Sl.No. | Khasra No. | Area in Hec. | Area Acquired for Mining Lease in Hec. | Remarks |
|--------|-------------|--------------|--|---------|
| 1 | 2 | 3 | 4 | 5 |
| 84 | 79 | 0.312 | 0.312 | |
| 85 | 80/1/1 | 0.353 | 0.353 | |
| 86 | 80/1/2 | 0.210 | 0.210 | |
| 87 | 80/2A | 0.190 | 0.190 | |
| 88 | 80/2B | 0.186 | 0.186 | |
| 89 | 80/2C | 0.186 | 0.186 | |
| 90 | 81/1 | 0.405 | 0.405 | |
| 91 | 81/2A/1/1 | 0.133 | 0.133 | |
| 92 | 81/2A/1/2 | 0.081 | 0.081 | |
| 93 | 81/2A/1/3 | 0.081 | 0.081 | |
| 94 | 81/2A/2 | 0.101 | 0.101 | |
| 95 | 81/2A/3 | 0.101 | 0.101 | |
| 96 | 81/2A/4 | 0.081 | 0.081 | |
| 97 | 81/2A/5 | 0.081 | 0.081 | |
| 98 | 81/2A/6 | 0.081 | 0.081 | |
| 99 | 81/2A/7 | 0.081 | 0.081 | |
| 100 | 81/2B | 1.417 | 1.417 | |
| 101 | 82/1A/2 | 0.081 | 0.081 | |
| 102 | 82/1A | 0.142 | 0.142 | |
| 103 | 82/1A/2/2 | 0.202 | 0.202 | |
| 104 | 82/1A/2 | 0.069 | 0.069 | |
| 105 | 82/1A/2/1/2 | 0.040 | 0.040 | |
| 106 | 82/1A/2/1/1 | 0.040 | 0.040 | |
| 107 | 82/1A/1/1 | 0.121 | 0.121 | |
| 108 | 82/1A/1/2 | 0.202 | 0.202 | |
| 109 | 82/1A/1/3 | 0.202 | 0.202 | |
| | | 56.276 | 56.276 | |

For, BIRLA CORPORATION LTD.

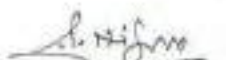
(Cement Division)

c:\land\sheet5

Units: Satna Cement Works

Birla Vikas Cement


 (P. S. MARWAHA)
 President


 P. S. MARWAHA


 सहपाक जनि अधिकारी
 सदा (व.प्र.)

Annexure-2

Birla CORPORATION LIMITED **UNIT: BIRHULI LIMESTONE MINE**

Compliance of NOC conditions issued by MPPCB, Bhopal for **obtaining Environmental Clearance** **NOC No. : 22342/TS/MPPCB/2004, dated 22/12/2004.**

| Sr. No. | NOC conditions | NOC Compliance Status |
|----------------|---|--|
| 1 | The mine discharge water/domestic shall be properly treated and shall fully utilized in plantation/sprinkling or other useful purpose. No treated/untreated water shall be let out at any point of time into the surface water bodies. Treated effluent quality shall meet the standards prescribed by M.P.Pollution Control Board in gazette notification, dated 25/03/88. | The waste water generated from workshop is properly treated and segregated at ETP in different settling tanks. Clean water collected from ETP is used for plantation/sprinkling and it is not discharged outside the premises. |
| 2 | Appropriate air pollution control equipment's shall be installed at all points of emission and shall ensure that these are always kept running and in good working order all the time. Effective steps shall be taken to avoid fugitive emission during excavation of lime stone, its handling/crushing/transportation etc. | 02 nos. Bag House, 04 Nos. Bag dust collector, 02 nos. cassettes filter and water spray arrangements are provided at crushers and belt transfer points to control the emission and the same is working efficiently. Belt curtains are also provided at the crushers to avoid fugitive dust during unloading of limestone. To control Fugitive dust during handling and transportation of limestone, 02 nos. water tankers of capacity 18000 & 7000 liters are exclusively engaged with water sprinkling system at mines for haul road. |
| 3 | Water spraying arrangements shall be made on haul roads to control dust nuisance. Suitable arrangement for control of fugitive emission shall be made and shall ensure that the ambient air quality at the boundary of the factory premises shall conform to the limits. | 02 nos. water tankers of capacity 18000 & 7000 liters are exclusively engaged with water sprinkling system at mines for haul road. Water spray system is provided at all dust prone areas & is being maintained regularly. 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. |

| | | |
|---|--|---|
| | | Results are showing within the prescribed limits. Fugitive dust emission from all the sources is already under controlled; regular monitoring is being done by third party & data recorded. |
| 4 | Mine shall have to follow all the blasting norms as laid down by the deptt. of Explosives & Director General of Mines Safety, Gol and other regulatory authorities to control noise, vibration and other environmental parameters. | Blasting operation is always carried out as per the norms provided & done only during daytime with controlled blasting method, under proper supervision. Monitoring of vibration is being done in regular interval with the help of new InstanTel Micromate vibration monitoring equipment. |
| 5 | Mines shall take proper action to control the noise pollution. The noise level should not exceed the limit 75 dB(A) during the day time and 70 dB(A) during the night time within the mines lease area. | Adequate measures are taken for controlling noise level. Regular monitoring of the noise level is being done and found within the stipulated norms. |
| 6 | Water table depletion study in and around the mining area shall be carried out by the reputed agencies at the earliest possible. All possible efforts including public awareness programmes shall be taken up for the ground water management. | Ground water study was done by M/s Maa Sharda consultant in year 2017 & Ground water consultant, Jaipur in 2019, reports are showing improvement in water table and core zone in safe category & buffer zone under semi-critical category as per their report. |
| 7 | Mines shall take effective steps to check the soil erosion from waste material dumping area and possibility of siltation problem in nearby nalla/river pond during rainy season. All the slopes of external dumps of overburden should be maintained at a maximum of 28 degrees. | Being followed.
Overburden dumps slopes are maintained properly & Plantation is done on dumps for stabilization. |
| 8 | Mine shall start biological reclamation on the internal and external dump areas as per MoEF guidelines and progress shall be intimated to the Board every year. | Being followed.
Plantation of local species is done on dumps for stabilization. |
| 9 | Extensive tree plantation shall be done in and around mining lease area. The tree plantation shall be carried out in phase manner | Plantation is being carried out in phase manner as per approved Mining plan. Afforestation programme is being carried |

| | | |
|----|--|---|
| | preferably with local species in consultation with the expert agencies. Good housekeeping practices shall be maintained. | out with consultation of local Forest department, and as per their advice saplings, are being procured from various nursery & forest department nursery. About 2.0 lacs plantation has been done within mining lease area. This year also we have planted 20,000 saplings within & outside Birhuli mining lease area. |
| 10 | Environmental Management Plan shall be prepared for mining activities. Mines shall submit On site Emergency Plan duly approved by the concerned authorities. | Environment Management plan is prepared and on-site emergency plan is also available. |
| 11 | Board reserves right to amend/cancel any of the above conditions as and when deemed necessary. | OK. |

**MADHYA PRADESH POLLUTION CONTROL BOARD****Paryawaran Parisar, E-5, Arera Colony, BHOPAL- 462016**No. **22-342** /TS/MPPCB/2004
ToDate: **22-12-04**

✓ **M/s. Birla Corporation Ltd.**
[Unit: Birhuli Lime Stone Mines]
P. O. Birla Vikas,
SATNA - 485 005 (M.P.)

Sub: No Objection Certificate for obtaining Environmental Clearance from Govt. of India for Captive Lime Stone Mines at Birhuli, Teh. Raghurajnagar, Distt. Satna (M.P.)

Ref: Your application No. Nil dated: 27/05/2004 & dt: 08/06/2004

As per requirement under Environmental Impact Assessment Notification 1994 No. 60[E] dated: 27/01/94 [as amended on 04/05/94] and notification No. 319 [E] dated: 10/04/97. No objection certificate is hereby issued for proposed Captive Lime Stone shale mining project of 0.6 Million T/Year at khasra No. 109, Village: Birhuli, Teh. Raghurajnagar, Distt. Satna (M.P.), subject to following conditions.

1. The Mine discharge water/domestic waste shall be properly treated and shall fully utilized in plantation/sprinkling or other useful purpose. No treated/untreated water shall be let out at any point of time into the surface water bodies. Treated effluent quality shall meets the standards prescribed by M.P. Pollution Control Board in gazette Notification, dated: 25/03/88.
2. Appropriate air pollution control equipments shall be installed at all points of emission and shall ensure that these are always kept running and in good working order all the time. Effective steps shall be taken to avoid fugitive emission during excavation of lime stone, its handling/crushing/transportation etc.
3. Water spraying arrangements shall be made on haul roads to control dust nuisance. Suitable arrangement for control of fugitive emission shall be made and shall ensure that the ambient air quality at the boundary of the factory premises shall conform to the following limits:

| | | | |
|----|------------------------------------|------|-----------------------|
| a. | Suspended Particulate Matter | 500 | Microgram/Cubic Meter |
| b. | Sulphur Dioxide [SO ₂] | 120 | " |
| c. | Nitrogen Oxides [Nox] | 120 | " |
| d. | Carbon Monoxide [CO] | 5000 | " |



MADHYA PRADESH POLLUTION CONTROL BOARD

Paryawaran Parisar, E-5, Arcra Colony, BHOPAL - 462016

4. Mine shall have to follow all the blasting norms as laid down by the Deptt. of Explosives & Director General of Mines Safety, GoI and other regulatory authorities to control noise, vibration and other environmental parameters.
5. Mines shall take proper action to control the noise pollution. The noise level should not exceed the limit 75dB[A] during the day time and 70dB[A] during the night time within the mine lease area.
6. Water table depletion study in and around the mining area shall be carried out by the reputed agencies at the earliest possible. All possible efforts including public awareness programmes shall be taken up for the ground water management.
7. Mines shall take effective steps to check the soil erosion from waste material dumping area and possibility of siltation problem in nearby nalla/river pond during rainy season. All the slopes of external dumps of over burden should be maintained at a maximum of 28 degrees.
8. Mine shall start biological reclamation on the internal and external dump areas as per MoEF guidelines and progress shall be intimated to the Board every year.
9. Extensive tree plantation shall be done in and around mining lease area. The tree plantation shall be carried out in phase manner preferably with local species in consultation with the expert agencies. Good house keeping practices shall be maintained.
10. Environmental Management Plan shall be prepared for mining activities. Mines shall submit On Site Emergency Plan duly approved by the concerned authorities.
11. Board reserves right to amend/cancel any of the above conditions as and when deemed necessary.

This "No Objection Certificate" is granted only for the purpose of obtaining Environmental clearance from Ministry of Environment & Forests, Govt. of India. This shall not be treated as consent under Water [Prevention & Control of Pollution] Act, 1974 and the Air [Prevention & Control of Pollution] Act, 1981.

Mine shall be required to obtain the following permissions from the Board prior to commencement of mine after obtaining Environmental Clearance from Govt. of India, Ministry of Environment & Forests.



MADHYA PRADESH POLLUTION CONTROL BOARD

Farvawaran Parisar, E-6, Arera Colony, BHOPAL- 462016

- (a) Consent under the Water (Prevention & Control of Pollution) Act, 1974.
- (b) Consent under the Environment Control of Pollution Act, 1981.
- (c) Memorandum on Response.
- (d) Authorisation under provisions of the Hazardous Chemicals Rules, 1989 [as amended in 2003].

For on behalf of
M.P. Pollution Control Board


(Dharmendra Shukla)
Member Secretary

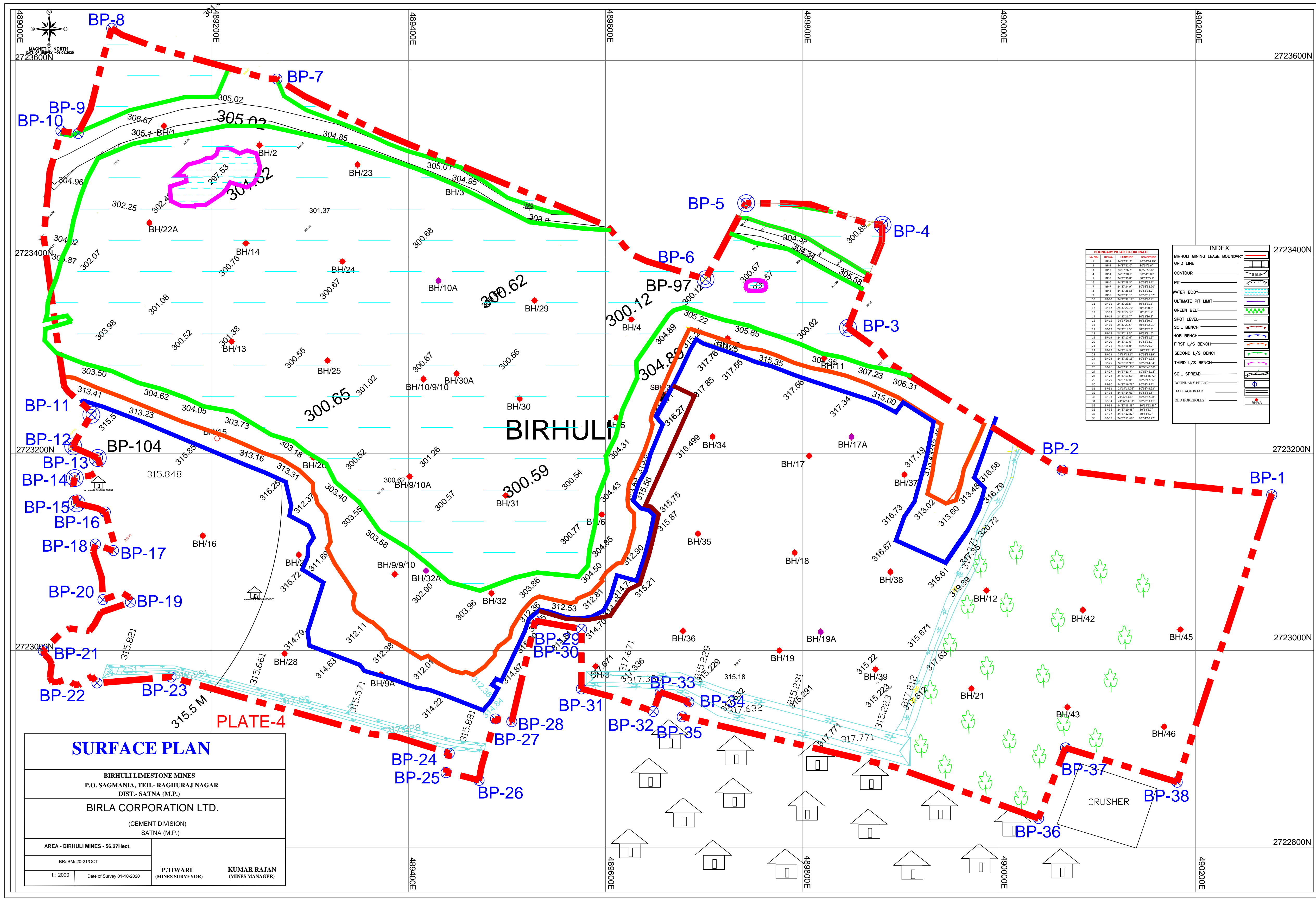
Endt No. /TS/MPPCB/2004

Date:

Copy to:-

1. Secretary, Ministry of Environment & Forests, Govt. of India., New Delhi.
2. Regional Officer, M.P. Pollution Control Board, Satna.


(Dharmendra Shukla)
Member Secretary



SURFACE PLAN

BIRHULI LIMESTONE MINES
P.O. SAGMANIA, TEH.- RAGHURAJ NAGAR
DIST.- SATNA (M.P.)

BIRLA CORPORATION LTD.
(CEMENT DIVISION)
SATNA (M.P.)

| | | |
|---|------------------------------|--------------------------------|
| AREA - BIRHULI MINES - 56.27Hect. | P.TIWARI
(MINES SURVEYOR) | KUMAR RAJAN
(MINES MANAGER) |
| BR/IBM/ 20-21/OCT | | |
| 1 : 2000 Date of Survey 01-10-2020 | | |

Water Reservoir



Siltation Pond



Photograph of Garland Drain



Annexure 7: Plantation Receipts

| सामान्य सुविधा केन्द्र सोनीरा अंतर्गत संचालित नर्सरी से वर्ष 2020-21 के दौरान स्वयं सहायता समूह सोनीरा द्वारा तैयार किये गये पौधों को बिस्ला कर्पोरेशन लिमिटेड प्लान्ट को प्रदाय का विवरण | | | | | | | |
|---|------------|--------------|---------------|--------------------|--------|---------------|-----------|
| क्र. | पत्र दिवस | पौधा प्रजाति | पौधों के साइज | पौधों की औसत लंबाई | मात्रा | दर प्रति पौधा | राशि |
| 1 | 07.07.2020 | काला सिरस | 15x25 cm | 2 से 3 फिट | 100 | 17.00 | 1700.00 |
| | | जामुन | 20x30 cm | 3 से 5 फिट | 300 | 50.00 | 15000.00 |
| | | आपला | 15x25 cm | 2 से 3 फिट | 100 | 30.00 | 3000.00 |
| | | सफेद खैर | 15x25 cm | 3 से 5 फिट | 100 | 17.00 | 1700.00 |
| | | योग | | | 600 | | 21400.00 |
| 2 | 09.07.2020 | करज | 15x25 cm | 3 से 4 फिट | 500 | 17.00 | 8500.00 |
| | | सीताफल | 20x30 cm | 3 से 4 फिट | 50 | 50.00 | 2500.00 |
| | | सफेद खैर | 15x25 cm | 3 से 5 फिट | 400 | 17.00 | 6800.00 |
| | | आम | 20x30 cm | 2 से 3 फिट | 50 | 50.00 | 2500.00 |
| | | योग | | | 1000 | | 20300.00 |
| 3 | 18.07.2020 | सागौन | 15x25 cm | 3 फिट | 1000 | 17.00 | 17000.00 |
| | | योग | | | 1000 | | 17000.00 |
| 4 | 22.07.2020 | करज | 15x25 cm | 3 से 4 फिट | 300 | 17.00 | 5100.00 |
| | | पेल्टाकार्म | 15x25 cm | 2 से 3 फिट | 200 | 17.00 | 3400.00 |
| | | काला सिरस | 15x25 cm | 2 से 3 फिट | 200 | 17.00 | 3400.00 |
| | | काला सिरस | 20x30 cm | 3 से 4 फिट | 100 | 50.00 | 5000.00 |
| | | पेल्टाकार्म | 20x30 cm | 4 से 6 फिट | 50 | 50.00 | 2500.00 |
| | | बापुलर | 20x30 cm | 6 से 7 फिट | 150 | 50.00 | 7500.00 |
| | | योग | | | 1000 | | 26900.00 |
| 5 | 28.07.2020 | अर्जुन | 15x25 cm | 2 से 3 फिट | 500 | 30.00 | 15000.00 |
| | | कपोक | 15x25 cm | 3 से 4 फिट | 100 | 17.00 | 1700.00 |
| | | जामुन | 20x30 cm | 3 से 5 फिट | 200 | 50.00 | 10000.00 |
| | | सफेद सिरस | 15x25 cm | 2 से 3 फिट | 50 | 17.00 | 850.00 |
| | | अमरुद | 15x25 cm | 3 से 5 फिट | 50 | 30.00 | 1500.00 |
| | | सागौन | 15x25 cm | 3 फिट | 100 | 17.00 | 1700.00 |
| | | योग | | | 1000 | | 30750.00 |
| 6 | 30.07.2020 | पेल्टाकार्म | 15x25 cm | 3 से 4 फिट | 500 | 17.00 | 8500.00 |
| | | काला सिरस | 15x25 cm | 2 से 3 फिट | 200 | 17.00 | 3400.00 |
| | | गुलमोहर | 15x25 cm | 2 से 3 फिट | 200 | 17.00 | 3400.00 |
| | | कपोक | 15x25 cm | 3 से 4 फिट | 100 | 17.00 | 1700.00 |
| | | योग | | | 1000 | | 17000.00 |
| | | कुलयोग | | | 5600 | | 133350.00 |

Annexure 8: Photographs showing Plantation at Birholi Mines



Water Sprinkling System



Annexure- 9

Bag Dust Collector with Pocket filters



Belt curtain at hopper



Fully Covered Crusher Housing with Bag Dust Collector



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :
Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :
July, 2020

| Description | Quarry_Station_1-CO(pphm) | Quarry_Station_1-NOx(pphm) | Quarry_Station_1-PM2.5(pphm) | Quarry_Station_1-PM10(pphm) | Quarry_Station_1-SO2(pphm) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 1.12 | 37.98 | 37.50 | 46.73 | 13.63 |
| Minimum Data | 0.13 | 3.95 | 4.63 | 16.83 | 3.4 |
| Data Availability % | 99.37% | 90.33% | 83.86% | 99.37% | 90.33% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :
Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :
August, 2020

| Description | Quarry_Station_1-CO(pphm) | Quarry_Station_1-NOx(pphm) | Quarry_Station_1-PM2.5(pphm) | Quarry_Station_1-PM10(pphm) | Quarry_Station_1-SO2(pphm) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 1.87 | 23.10 | 17.05 | 92.33 | 26.32 |
| Minimum Data | 0.25 | 11.22 | 6.49 | 12.91 | 13.66 |
| Data Availability % | 90.40% | 96.67% | 96.67% | 96.67% | 80.23% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :
Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :
Sept, 2020

| Description | Quarry_Station_1-CO(pphm) | Quarry_Station_1-NOx(pphm) | Quarry_Station_1-PM2.5(pphm) | Quarry_Station_1-PM10(pphm) | Quarry_Station_1-SO2(pphm) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.63 | 42.78 | 25.29 | 90.63 | 17.88 |
| Minimum Data | 0.20 | 11.43 | 8.13 | 11.04 | 5.2 |
| Data Availability % | 90.25% | 92.30% | 87.96% | 89.78% | 98.47% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Aera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satra

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Oct,2020

| Description | Quarry_Station_1-CO(mgm3) | Quarry_Station_1-NOx(mgm3) | Quarry_Station_1-PM2.5(mgm3) | Quarry_Station_1-PM10(mgm3) | Quarry_Station_1-SO2(mgm3) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.66 | 22.06 | 36.87 | 93.60 | 13.33 |
| Minimum Data | 0.35 | 14.09 | 28.97 | 48.15 | 2.5 |
| Data Availability % | 87.42% | 90.00% | 88.00% | 99.00% | 90.00% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Aera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satra

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Nov,2020

| Description | Quarry_Station_1-CO(mgm3) | Quarry_Station_1-NOx(mgm3) | Quarry_Station_1-PM2.5(mgm3) | Quarry_Station_1-PM10(mgm3) | Quarry_Station_1-SO2(mgm3) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.85 | 24.48 | 55.00 | 94.71 | 28.96 |
| Minimum Data | 0.17 | 17.45 | 23.57 | 47.89 | 12.40 |
| Data Availability % | 82.78% | 92.50% | 82.78% | 82.78% | 82.76% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Aera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satra

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Dec,2020

| Description | Quarry_Station_1-CO(mgm3) | Quarry_Station_1-NOx(mgm3) | Quarry_Station_1-PM2.5(mgm3) | Quarry_Station_1-PM10(mgm3) | Quarry_Station_1-SO2(mgm3) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.86 | 31.27 | 43.98 | 93.20 | 20.17 |
| Minimum Data | 0.39 | 18.50 | 21.95 | 41.99 | 3.7 |
| Data Availability % | 97.00% | 85.71% | 97.00% | 80.71% | 97.00% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2468180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satna

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

July, 2020

| Description | Quarry_Station_2-CO ₂ (mg/m ³) | Quarry_Station_2-NO ₂ (mg/m ³) | Quarry_Station_2-PM _{2.5} (mg/m ³) | Quarry_Station_2-PM ₁₀ (mg/m ³) | Quarry_Station_2-SO ₂ (mg/m ³) |
|----------------------|---|---|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 30 | 0 - 60 | 0 - 108 | 0 - 80 |
| Maximum Data | 0.48 | 28.83 | 30.61 | 87.82 | 11.92 |
| Minimum Data | 0.25 | 2.59 | 6.71 | 18.58 | 9.17 |
| Data Availability % | 88.84% | 74.12% | 88.84% | 88.84% | 88.81% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2468180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satna

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Aug, 2020

| Description | Quarry_Station_2-CO ₂ (mg/m ³) | Quarry_Station_2-NO ₂ (mg/m ³) | Quarry_Station_2-PM _{2.5} (mg/m ³) | Quarry_Station_2-PM ₁₀ (mg/m ³) | Quarry_Station_2-SO ₂ (mg/m ³) |
|----------------------|---|---|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 30 | 0 - 60 | 0 - 108 | 0 - 80 |
| Maximum Data | 0.32 | 21.35 | 33.88 | 95.69 | 17.59 |
| Minimum Data | 0.11 | 3.36 | 8.78 | 11.22 | 5.31 |
| Data Availability % | 96.65% | 96.65% | 96.65% | 93.33% | 96.65% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2468180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satna

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Sept, 2020

| Description | Quarry_Station_2-CO ₂ (mg/m ³) | Quarry_Station_2-NO ₂ (mg/m ³) | Quarry_Station_2-PM _{2.5} (mg/m ³) | Quarry_Station_2-PM ₁₀ (mg/m ³) | Quarry_Station_2-SO ₂ (mg/m ³) |
|----------------------|---|---|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 30 | 0 - 60 | 0 - 108 | 0 - 80 |
| Maximum Data | 0.31 | 29.84 | 55.91 | 94.81 | 33.90 |
| Minimum Data | 0.11 | 3.03 | 17.63 | 36.72 | 6.48 |
| Data Availability % | 89.66% | 89.66% | 89.66% | 81.38% | 89.66% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :

Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Oct, 2020

| Description | Quarry_Station_2-CO ₂ (ppm) | Quarry_Station_2-NO _x (ppm) | Quarry_Station_2-PM _{2.5} (ug/m ³) | Quarry_Station_2-PM ₁₀ (ug/m ³) | Quarry_Station_2-SO ₂ (ug/m ³) |
|----------------------|--|--|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.69 | 23.70 | 52.88 | 95.28 | 28.36 |
| Minimum Data | 0.34 | 1.94 | 23.27 | 47.37 | 7.92 |
| Data Availability % | 90.00% | 90.00% | 90.00% | 90.00% | 90.00% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :

Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Nov, 2020

| Description | Quarry_Station_2-CO ₂ (ppm) | Quarry_Station_2-NO _x (ppm) | Quarry_Station_2-PM _{2.5} (ug/m ³) | Quarry_Station_2-PM ₁₀ (ug/m ³) | Quarry_Station_2-SO ₂ (ug/m ³) |
|----------------------|--|--|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.88 | 31.36 | 49.69 | 92.55 | 12.86 |
| Minimum Data | 0.47 | 4.83 | 24.51 | 65.34 | 3.98 |
| Data Availability % | 96.55% | 96.55% | 96.55% | 96.55% | 93.10% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :

Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Dec, 2020

| Description | Quarry_Station_2-CO ₂ (ppm) | Quarry_Station_2-NO _x (ppm) | Quarry_Station_2-PM _{2.5} (ug/m ³) | Quarry_Station_2-PM ₁₀ (ug/m ³) | Quarry_Station_2-SO ₂ (ug/m ³) |
|----------------------|--|--|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.63 | 67.27 | 54.94 | 83.24 | 33.71 |
| Minimum Data | 0.13 | 2.05 | 23.01 | 12.86 | 2.61 |
| Data Availability % | 96.43% | 96.43% | 96.43% | 93.67% | 96.43% |

| Drishti-2018 : Encardio-rite Electronics Pvt. Ltd. | | | | |
|--|---------------------|------------------------|--------------------------|---------------------------|
| SiteName : Birla Corporation Ltd Satna M.P | | | | |
| Date : From 2020-06-01 00:00:59 To 2020-12-30 08:37:59 | | | | |
| Datetime | Battery Voltage (V) | Ground Water Level (m) | Water Temperature (degC) | Barometric Pressure (hPa) |
| 2020-06-01 06:00:00 | 7.34 | -16.2 | 27.5 | 968.4 |
| 2020-06-01 18:00:00 | 7.33 | -16.27 | 27.4 | 966.8 |
| 2020-06-02 06:00:00 | 7.35 | -15.49 | 27.5 | 967.6 |
| 2020-06-02 18:00:00 | 7.35 | -15.51 | 27.5 | 966 |
| 2020-06-03 06:00:00 | 7.35 | -15.5 | 27.5 | 966.4 |
| 2020-06-03 18:00:00 | 7.34 | -15.65 | 27.5 | 964.7 |
| 2020-06-04 06:00:00 | 7.35 | -15.89 | 27.5 | 965.2 |
| 2020-06-04 18:00:00 | 7.35 | -14.97 | 27.5 | 961.6 |
| 2020-06-06 18:00:00 | 7.34 | -13.68 | 27.4 | 963.2 |
| 2020-06-07 06:00:00 | 7.36 | -13.85 | 27.4 | 964.6 |
| 2020-06-07 18:00:00 | 7.34 | -13.84 | 27.4 | 962.2 |
| 2020-06-08 06:00:00 | 7.35 | -13.87 | 27.4 | 964 |
| 2020-06-08 18:00:00 | 7.34 | -14.04 | 27.4 | 962.4 |
| 2020-06-09 06:00:00 | 7.35 | -14.12 | 27.4 | 964.2 |
| 2020-06-09 18:00:00 | 7.34 | -14.2 | 27.4 | 962.1 |
| 2020-06-10 06:00:00 | 7.35 | -14.18 | 27.4 | 963.5 |
| 2020-06-10 18:00:00 | 7.33 | -14.38 | 27.4 | 960.4 |
| 2020-06-11 06:00:00 | 7.35 | -14.48 | 27.4 | 961.8 |
| 2020-06-11 18:00:00 | 7.33 | -14.58 | 27.4 | 959.2 |
| 2020-06-12 06:00:00 | 7.34 | -14.69 | 27.4 | 961.2 |
| 2020-06-12 18:00:00 | 7.34 | -14.35 | 27.4 | 957.9 |
| 2020-06-13 06:00:00 | 7.34 | -14.18 | 27.4 | 960.8 |
| 2020-06-13 18:00:00 | 7.34 | -13.72 | 27.4 | 959.9 |
| 2020-06-14 06:00:00 | 7.35 | -14.11 | 27.4 | 962.1 |
| 2020-06-14 18:00:00 | 7.35 | -13.16 | 27.4 | 961.4 |
| 2020-06-15 06:00:00 | 7.34 | -13.36 | 27.4 | 962.3 |
| 2020-06-15 18:00:00 | 7.35 | -12.5 | 27.4 | 959 |
| 2020-06-16 06:00:00 | 7.35 | -12.51 | 27.4 | 959.2 |
| 2020-06-16 18:00:00 | 7.35 | -12.16 | 27.4 | 957.1 |
| 2020-06-17 06:00:00 | 7.35 | -12.37 | 27.4 | 958.3 |
| 2020-06-17 18:00:00 | 7.34 | -12.51 | 27.4 | 957.4 |
| 2020-06-18 06:00:00 | 7.35 | -12.7 | 27.4 | 959.1 |
| 2020-06-18 18:00:00 | 7.35 | -11.85 | 27.4 | 959 |
| 2020-06-19 06:00:00 | 7.35 | -12.24 | 27.4 | 960.9 |
| 2020-06-19 18:00:00 | 7.35 | -12.21 | 27.4 | 960.2 |
| 2020-06-20 06:00:00 | 7.35 | -12.15 | 27.4 | 962.1 |
| 2020-06-20 18:00:00 | 7.34 | -11.7 | 27.4 | 961.1 |
| 2020-06-21 06:00:00 | 7.35 | -12.6 | 27.4 | 961 |
| 2020-06-21 18:00:00 | 7.35 | -12.84 | 27.4 | 960.3 |
| 2020-06-22 06:00:00 | 7.35 | -12.94 | 27.4 | 960.8 |
| 2020-06-22 18:00:00 | 7.35 | -13.07 | 27.4 | 960.9 |
| 2020-06-23 06:00:00 | 7.35 | -13.06 | 27.4 | 962 |
| 2020-06-23 18:00:00 | 7.35 | -12.38 | 27.4 | 962 |

| | | | | |
|---------------------|------|--------|------|-------|
| 2020-06-24 06:00:00 | 7.35 | -12.23 | 27.4 | 964.6 |
| 2020-06-24 18:00:00 | 7.35 | -12.18 | 27.4 | 963.2 |
| 2020-06-25 06:00:00 | 7.36 | -12.26 | 27.4 | 963.8 |
| 2020-06-25 18:00:00 | 7.35 | -12.22 | 27.4 | 962.1 |
| 2020-06-26 06:00:00 | 7.35 | -12.49 | 27.4 | 962.6 |
| 2020-06-26 18:00:00 | 7.35 | -11.35 | 27.4 | 961.6 |
| 2020-06-27 06:00:00 | 7.35 | -12.88 | 27.4 | 963.5 |
| 2020-06-27 18:00:00 | 7.34 | -12.97 | 27.4 | 961.2 |
| 2020-06-28 06:00:00 | 7.35 | -13.12 | 27.4 | 962.9 |
| 2020-06-28 18:00:00 | 7.35 | -13.28 | 27.4 | 960.8 |
| 2020-06-29 06:00:00 | 7.35 | -12.18 | 27.4 | 965.6 |
| 2020-06-29 18:00:00 | 7.35 | -11.68 | 27.4 | 962.6 |
| 2020-06-30 06:00:00 | 7.35 | -11.52 | 27.4 | 964.3 |
| 2020-06-30 18:00:00 | 7.34 | -11.29 | 27.4 | 962.3 |
| 2020-07-01 06:00:00 | 7.35 | -11.1 | 27.4 | 963.2 |
| 2020-07-01 18:00:00 | 7.35 | -11.14 | 27.4 | 960.2 |
| 2020-07-02 06:00:00 | 7.35 | -11.27 | 27.4 | 960.6 |
| 2020-07-02 18:00:00 | 7.34 | -11.62 | 27.4 | 959.2 |
| 2020-07-03 06:00:00 | 7.35 | -11.98 | 27.4 | 960.3 |
| 2020-07-03 18:00:00 | 7.34 | -12.25 | 27.4 | 958.9 |
| 2020-07-04 06:00:00 | 7.34 | -12.47 | 27.4 | 960.4 |
| 2020-07-04 18:00:00 | 7.34 | -12.73 | 27.4 | 959.1 |
| 2020-07-05 06:00:00 | 7.35 | -13.01 | 27.4 | 959.4 |
| 2020-07-05 18:00:00 | 7.35 | -12.03 | 27.4 | 958.2 |
| 2020-07-06 06:00:00 | 7.35 | -11.26 | 27.4 | 959.2 |
| 2020-07-06 18:00:00 | 7.35 | -10.27 | 27.4 | 958.4 |
| 2020-07-07 06:00:00 | 7.35 | -9.89 | 27.4 | 961.4 |
| 2020-07-07 18:00:00 | 7.35 | -9.86 | 27.4 | 962.4 |
| 2020-07-08 06:00:00 | 7.35 | -9.81 | 27.4 | 964.6 |
| 2020-07-08 18:00:00 | 7.35 | -9.85 | 27.4 | 962.4 |
| 2020-07-09 06:00:00 | 7.35 | -9.69 | 27.4 | 962.8 |
| 2020-07-09 18:00:00 | 7.35 | -9.77 | 27.4 | 960.4 |
| 2020-07-10 06:00:00 | 7.34 | -10.18 | 27.4 | 961.1 |
| 2020-07-10 18:00:00 | 7.34 | -10.05 | 27.4 | 961.2 |
| 2020-07-11 06:00:00 | 7.35 | -9.84 | 27.4 | 961.1 |
| 2020-07-11 18:00:00 | 7.35 | -9.93 | 27.4 | 961.2 |
| 2020-07-12 06:00:00 | 7.35 | -10.12 | 27.4 | 962.2 |
| 2020-07-12 18:00:00 | 7.35 | -10.52 | 27.4 | 961.1 |
| 2020-07-13 06:00:00 | 7.35 | -10.9 | 27.4 | 962.6 |
| 2020-07-13 18:00:00 | 7.34 | -11.35 | 27.4 | 960 |
| 2020-07-14 06:00:00 | 7.35 | -10.11 | 27.4 | 962.3 |
| 2020-07-14 18:00:00 | 7.34 | -9.79 | 27.4 | 961.3 |
| 2020-07-15 06:00:00 | 7.35 | -9.44 | 27.4 | 962.9 |
| 2020-07-15 18:00:00 | 7.34 | -9.36 | 27.4 | 960.4 |
| 2020-07-16 06:00:00 | 7.35 | -9.35 | 27.4 | 961.2 |
| 2020-07-16 18:00:00 | 7.34 | -9.93 | 27.4 | 959.5 |
| 2020-07-17 06:00:00 | 7.35 | -10.22 | 27.4 | 962.1 |
| 2020-07-17 18:00:00 | 7.34 | -10.53 | 27.4 | 961.1 |
| 2020-07-18 06:00:00 | 7.35 | -10.86 | 27.4 | 964 |
| 2020-07-18 18:00:00 | 7.34 | -11.3 | 27.4 | 963.1 |

| | | | | |
|---------------------|------|--------|------|-------|
| 2020-07-19 06:00:00 | 7.34 | -11.55 | 27.4 | 964.1 |
| 2020-07-19 18:00:00 | 7.34 | -11.76 | 27.4 | 961.4 |
| 2020-07-20 06:00:00 | 7.35 | -11.9 | 27.4 | 962 |
| 2020-07-20 18:00:00 | 7.34 | -12.16 | 27.4 | 962 |
| 2020-07-21 06:00:00 | 7.35 | -10.23 | 27.4 | 963.3 |
| 2020-07-21 18:00:00 | 7.34 | -11.57 | 27.4 | 965 |
| 2020-07-22 06:00:00 | 7.35 | -11.19 | 27.4 | 965.2 |
| 2020-07-22 18:00:00 | 7.34 | -11.2 | 27.4 | 963.1 |
| 2020-07-23 06:00:00 | 7.35 | -11.19 | 27.4 | 964 |
| 2020-07-23 18:00:00 | 7.34 | -11.47 | 27.4 | 963 |
| 2020-07-24 06:00:00 | 7.35 | -11.67 | 27.4 | 966.3 |
| 2020-07-24 18:00:00 | 7.34 | -11.87 | 27.4 | 965.2 |
| 2020-07-25 06:00:00 | 7.34 | -12.06 | 27.4 | 967.7 |
| 2020-07-25 18:00:00 | 7.35 | -12.23 | 27.4 | 967.1 |
| 2020-07-26 06:00:00 | 7.35 | -12.43 | 27.4 | 969.1 |
| 2020-07-26 18:00:00 | 7.34 | -12.73 | 27.4 | 966.6 |
| 2020-07-27 06:00:00 | 7.35 | -12.88 | 27.4 | 967.8 |
| 2020-07-27 18:00:00 | 7.34 | -12.98 | 27.4 | 963.8 |
| 2020-07-28 06:00:00 | 7.34 | -13.04 | 27.4 | 965 |
| 2020-07-28 18:00:00 | 7.34 | -13.09 | 27.4 | 963.8 |
| 2020-07-29 06:00:00 | 7.35 | -13.09 | 27.4 | 964.5 |
| 2020-07-29 18:00:00 | 7.34 | -13.21 | 27.4 | 964.8 |
| 2020-07-30 06:00:00 | 7.34 | -13.21 | 27.4 | 965.6 |
| 2020-07-30 18:00:00 | 7.34 | -13.25 | 27.4 | 965.1 |
| 2020-07-31 06:00:00 | 7.35 | -13.24 | 27.4 | 965.2 |
| 2020-07-31 18:00:00 | 7.34 | -13.3 | 27.4 | 963.8 |
| 2020-08-01 06:00:00 | 7.35 | -13.29 | 27.4 | 965.2 |
| 2020-08-01 18:00:00 | 7.35 | -13.29 | 27.4 | 962.7 |
| 2020-08-02 06:00:00 | 7.34 | -13.26 | 27.4 | 964.3 |
| 2020-08-02 18:00:00 | 7.34 | -13.32 | 27.4 | 960.2 |
| 2020-08-03 06:00:00 | 7.35 | -13.32 | 27.4 | 960.7 |
| 2020-08-03 18:00:00 | 7.35 | -13.3 | 27.4 | 957.9 |
| 2020-08-04 06:00:00 | 7.35 | -13.25 | 27.4 | 957.3 |
| 2020-08-04 18:00:00 | 7.35 | -13.27 | 27.4 | 954.2 |
| 2020-08-05 06:00:00 | 7.35 | -13.29 | 27.4 | 955.9 |
| 2020-08-05 18:00:00 | 7.35 | -13.38 | 27.4 | 954.4 |
| 2020-08-06 06:00:00 | 7.35 | -13.45 | 27.4 | 956.4 |
| 2020-08-06 18:00:00 | 7.35 | -12.73 | 27.4 | 958.6 |
| 2020-08-07 06:00:00 | 7.35 | -12.76 | 27.4 | 963.2 |
| 2020-08-07 18:00:00 | 7.34 | -12.88 | 27.4 | 961.8 |
| 2020-08-08 06:00:00 | 7.35 | -12.93 | 27.4 | 962.6 |
| 2020-08-09 06:00:00 | 7.35 | -12.7 | 27.4 | 961.6 |
| 2020-08-09 18:00:00 | 7.34 | -12.82 | 27.4 | 959.2 |
| 2020-08-10 06:00:00 | 7.35 | -12.9 | 27.4 | 961.6 |
| 2020-08-10 18:00:00 | 7.34 | -12.97 | 27.4 | 960.3 |
| 2020-08-11 06:00:00 | 7.35 | -12.01 | 27.4 | 961.4 |
| 2020-08-11 18:00:00 | 7.35 | -12.61 | 27.4 | 961 |
| 2020-08-12 06:00:00 | 7.35 | -12.7 | 27.4 | 961.8 |
| 2020-08-12 18:00:00 | 7.35 | -10.53 | 27.4 | 960.8 |
| 2020-08-13 06:00:00 | 7.35 | -10.48 | 27.4 | 961 |

| | | | | |
|---------------------|------|--------|------|-------|
| 2020-08-13 18:00:00 | 7.34 | -10.4 | 27.4 | 958.9 |
| 2020-08-14 06:00:00 | 7.35 | -10.16 | 27.4 | 959.4 |
| 2020-08-14 18:00:00 | 7.35 | -10.16 | 27.4 | 958.6 |
| 2020-08-15 06:00:00 | 7.34 | -10.39 | 27.4 | 959.3 |
| 2020-08-15 18:00:00 | 7.35 | -10.43 | 27.4 | 959.3 |
| 2020-08-16 06:00:00 | 7.35 | -9.92 | 27.4 | 960.7 |
| 2020-08-16 18:00:00 | 7.34 | -9.33 | 27.4 | 959.4 |
| 2020-08-17 06:00:00 | 7.34 | -8.81 | 27.4 | 960.2 |
| 2020-08-17 18:00:00 | 7.34 | -8.79 | 27.4 | 959.4 |
| 2020-08-18 06:00:00 | 7.35 | -8.54 | 27.4 | 960.6 |
| 2020-08-24 06:00:00 | 7.35 | -8.64 | 27.4 | 965.8 |
| 2020-08-24 18:00:00 | 7.34 | -9.05 | 27.4 | 965 |
| 2020-08-25 06:00:00 | 7.35 | -9.46 | 27.4 | 967.5 |
| 2020-08-25 18:00:00 | 7.34 | -9.99 | 27.4 | 966.7 |
| 2020-08-26 06:00:00 | 7.35 | -10.4 | 27.4 | 968 |
| 2020-08-26 18:00:00 | 7.34 | -10.72 | 27.4 | 965.7 |
| 2020-08-27 06:00:00 | 7.34 | -8.8 | 27.4 | 965.6 |
| 2020-08-27 18:00:00 | 7.35 | -9.64 | 27.4 | 962 |
| 2020-08-28 06:00:00 | 7.35 | -9 | 27.4 | 961 |
| 2020-09-01 06:00:00 | 7.35 | -8.83 | 27.4 | 968.9 |
| 2020-09-01 18:00:00 | 7.34 | -9.45 | 27.4 | 968.3 |
| 2020-09-02 06:00:00 | 7.35 | -10.04 | 27.4 | 970.2 |
| 2020-09-02 18:00:00 | 7.35 | -9.07 | 27.4 | 967.9 |
| 2020-09-03 06:00:00 | 7.35 | -9.57 | 27.4 | 969.2 |
| 2020-09-03 18:00:00 | 7.34 | -9.98 | 27.4 | 968.2 |
| 2020-09-04 06:00:00 | 7.34 | -10.2 | 27.4 | 970 |
| 2020-09-04 18:00:00 | 7.34 | -10.57 | 27.4 | 968.8 |
| 2020-09-05 06:00:00 | 7.35 | -10.81 | 27.4 | 968 |
| 2020-09-05 18:00:00 | 7.34 | -11.04 | 27.4 | 966.4 |
| 2020-09-06 06:00:00 | 7.35 | -11.12 | 27.4 | 967.2 |
| 2020-09-06 18:00:00 | 7.34 | -11.29 | 27.4 | 965.7 |
| 2020-09-07 06:00:00 | 7.35 | -11.39 | 27.4 | 967.4 |
| 2020-09-07 18:00:00 | 7.34 | -11.49 | 27.4 | 966.7 |
| 2020-09-08 06:00:00 | 7.34 | -11.48 | 27.4 | 968.1 |
| 2020-09-08 18:00:00 | 7.34 | -11.62 | 27.4 | 967 |
| 2020-09-09 06:00:00 | 7.35 | -11.66 | 27.4 | 968.3 |
| 2020-09-10 06:00:00 | 7.35 | -10.61 | 27.4 | 965.7 |
| 2020-09-10 18:00:00 | 7.35 | -10.23 | 27.4 | 963.2 |
| 2020-09-11 06:00:00 | 7.35 | -9.99 | 27.4 | 965.6 |
| 2020-09-11 18:00:00 | 7.35 | -10.08 | 27.4 | 964.5 |
| 2020-09-12 06:00:00 | 7.34 | -10.4 | 27.4 | 967.9 |
| 2020-09-12 18:00:00 | 7.34 | -10.86 | 27.4 | 967.2 |
| 2020-09-13 06:00:00 | 7.35 | -10.97 | 27.4 | 968.2 |
| 2020-09-13 18:00:00 | 7.34 | -9.71 | 27.4 | 966.9 |
| 2020-09-14 06:00:00 | 7.35 | -10.12 | 27.4 | 967.4 |
| 2020-09-14 18:00:00 | 7.34 | -10.16 | 27.4 | 965.2 |
| 2020-09-15 06:00:00 | 7.35 | -10.48 | 27.4 | 966.8 |
| 2020-09-15 18:00:00 | 7.34 | -10.53 | 27.4 | 964.8 |
| 2020-09-16 06:00:00 | 7.35 | -11 | 27.4 | 966 |
| 2020-09-16 18:00:00 | 7.34 | -11.23 | 27.4 | 964.9 |

| | | | | |
|---------------------|------|--------|------|-------|
| 2020-09-17 06:00:00 | 7.34 | -11.37 | 27.4 | 966.2 |
| 2020-09-17 18:00:00 | 7.33 | -11.65 | 27.4 | 964.9 |
| 2020-09-18 06:00:00 | 7.35 | -11.79 | 27.4 | 965.6 |
| 2020-09-18 18:00:00 | 7.34 | -11.94 | 27.4 | 963.7 |
| 2020-09-19 06:00:00 | 7.35 | -11.99 | 27.4 | 964.4 |
| 2020-09-19 18:00:00 | 7.34 | -11.91 | 27.4 | 962.9 |
| 2020-09-20 06:00:00 | 7.35 | -12.04 | 27.4 | 964 |
| 2020-09-20 18:00:00 | 7.34 | -12.26 | 27.4 | 961.6 |
| 2020-09-21 06:00:00 | 7.35 | -12.13 | 27.4 | 962.5 |
| 2020-09-21 18:00:00 | 7.34 | -12.17 | 27.4 | 960.8 |
| 2020-09-22 06:00:00 | 7.34 | -12.17 | 27.4 | 962.1 |
| 2020-09-22 18:00:00 | 7.35 | -12.16 | 27.4 | 960.4 |
| 2020-09-23 06:00:00 | 7.35 | -11.68 | 27.4 | 961.2 |
| 2020-09-23 18:00:00 | 7.35 | -11.08 | 27.4 | 961.6 |
| 2020-09-24 06:00:00 | 7.35 | -10.52 | 27.4 | 963.7 |
| 2020-09-24 18:00:00 | 7.35 | -10.35 | 27.4 | 964.8 |
| 2020-09-25 06:00:00 | 7.34 | -10.35 | 27.4 | 965.5 |
| 2020-09-25 18:00:00 | 7.34 | -10.65 | 27.4 | 965.1 |
| 2020-09-26 06:00:00 | 7.35 | -10.87 | 27.4 | 965 |
| 2020-09-26 18:00:00 | 7.34 | -11.12 | 27.4 | 964.8 |
| 2020-09-27 06:00:00 | 7.34 | -11.25 | 27.4 | 967.5 |
| 2020-09-27 18:00:00 | 7.34 | -11.41 | 27.4 | 967.1 |
| 2020-09-28 06:00:00 | 7.35 | -11.5 | 27.4 | 969.1 |
| 2020-09-28 18:00:00 | 7.34 | -11.91 | 27.4 | 967.8 |
| 2020-09-29 06:00:00 | 7.35 | -11.74 | 27.4 | 968.8 |
| 2020-09-29 18:00:00 | 7.34 | -11.87 | 27.4 | 967.8 |
| 2020-09-30 06:00:00 | 7.35 | -11.87 | 27.4 | 967.4 |
| 2020-09-30 18:00:00 | 7.34 | -12.18 | 27.4 | 966.3 |
| 2020-10-01 06:00:00 | 7.35 | -12.01 | 27.4 | 967 |
| 2020-10-01 18:00:00 | 7.34 | -12.07 | 27.4 | 966.2 |
| 2020-10-02 06:00:00 | 7.35 | -12.07 | 27.4 | 966.6 |
| 2020-10-02 18:00:00 | 7.34 | -12.13 | 27.4 | 966.5 |
| 2020-10-03 06:00:00 | 7.35 | -12.09 | 27.4 | 967.6 |
| 2020-10-03 18:00:00 | 7.34 | -12.09 | 27.4 | 966.8 |
| 2020-10-04 06:00:00 | 7.35 | -12.12 | 27.4 | 968.7 |
| 2020-10-04 18:00:00 | 7.34 | -12.2 | 27.4 | 967.1 |
| 2020-10-05 06:00:00 | 7.35 | -12.17 | 27.4 | 968.4 |
| 2020-10-05 18:00:00 | 7.35 | -12.22 | 27.4 | 967.2 |
| 2020-10-06 06:00:00 | 7.35 | -12.18 | 27.4 | 968.4 |
| 2020-10-06 18:00:00 | 7.34 | -12.22 | 27.4 | 967.9 |
| 2020-10-07 06:00:00 | 7.34 | -12.2 | 27.4 | 970.2 |
| 2020-10-07 18:00:00 | 7.34 | -12.54 | 27.4 | 968.9 |
| 2020-10-08 06:00:00 | 7.35 | -12.27 | 27.4 | 971.1 |
| 2020-10-08 18:00:00 | 7.33 | -12.31 | 27.4 | 969.4 |
| 2020-10-09 06:00:00 | 7.35 | -12.24 | 27.4 | 971.8 |
| 2020-10-09 18:00:00 | 7.34 | -12.29 | 27.4 | 969.5 |
| 2020-10-10 06:00:00 | 7.35 | -12.25 | 27.4 | 970.8 |
| 2020-10-10 18:00:00 | 7.34 | -12.33 | 27.4 | 968 |
| 2020-10-11 06:00:00 | 7.35 | -12.22 | 27.4 | 969.1 |
| 2020-10-11 18:00:00 | 7.33 | -12.48 | 27.4 | 966.1 |

| | | | | |
|---------------------|------|--------|------|-------|
| 2020-10-12 06:00:00 | 7.34 | -12.29 | 27.4 | 967.8 |
| 2020-10-12 18:00:00 | 7.34 | -12.38 | 27.4 | 965.2 |
| 2020-10-13 06:00:00 | 7.34 | -12.31 | 27.4 | 967 |
| 2020-10-13 18:00:00 | 7.33 | -12.33 | 27.4 | 966.1 |
| 2020-10-14 06:00:00 | 7.34 | -12.25 | 27.4 | 967.8 |
| 2020-10-14 18:00:00 | 7.33 | -12.34 | 27.4 | 966.9 |
| 2020-10-15 06:00:00 | 7.35 | -12.27 | 27.4 | 968.6 |
| 2020-10-15 18:00:00 | 7.34 | -12.35 | 27.4 | 967.1 |
| 2020-10-16 06:00:00 | 7.35 | -12.34 | 27.4 | 968.7 |
| 2020-10-16 18:00:00 | 7.34 | -12.38 | 27.4 | 967.2 |
| 2020-10-17 06:00:00 | 7.35 | -12.31 | 27.4 | 969.6 |
| 2020-10-17 18:00:00 | 7.34 | -12.38 | 27.4 | 968.2 |
| 2020-10-18 06:00:00 | 7.35 | -12.31 | 27.4 | 970.4 |
| 2020-10-18 18:00:00 | 7.34 | -12.37 | 27.4 | 969 |
| 2020-10-19 06:00:00 | 7.35 | -12.31 | 27.4 | 969.8 |
| 2020-10-19 18:00:00 | 7.33 | -12.37 | 27.4 | 968.1 |
| 2020-10-20 06:00:00 | 7.35 | -12.32 | 27.4 | 969.1 |
| 2020-10-20 18:00:00 | 7.34 | -12.38 | 27.4 | 968.7 |
| 2020-10-21 06:00:00 | 7.35 | -12.33 | 27.4 | 971 |
| 2020-10-21 18:00:00 | 7.34 | -12.39 | 27.4 | 968.8 |
| 2020-10-22 06:00:00 | 7.35 | -12.34 | 27.4 | 969.1 |
| 2020-10-22 18:00:00 | 7.34 | -12.45 | 27.4 | 967.5 |
| 2020-10-23 06:00:00 | 7.35 | -12.38 | 27.4 | 968.3 |
| 2020-10-23 18:00:00 | 7.34 | -12.45 | 27.4 | 967.5 |
| 2020-10-24 06:00:00 | 7.35 | -12.38 | 27.4 | 969.4 |
| 2020-10-24 18:00:00 | 7.34 | -12.49 | 27.4 | 969.2 |
| 2020-10-25 06:00:00 | 7.35 | -12.47 | 27.4 | 972 |
| 2020-10-25 18:00:00 | 7.34 | -12.49 | 27.4 | 971.3 |
| 2020-10-26 06:00:00 | 7.35 | -12.49 | 27.4 | 973.5 |
| 2020-10-26 18:00:00 | 7.34 | -12.55 | 27.4 | 972.1 |
| 2020-10-27 06:00:00 | 7.35 | -12.51 | 27.4 | 972.2 |
| 2020-10-27 18:00:00 | 7.34 | -12.51 | 27.4 | 972.4 |
| 2020-10-28 06:00:00 | 7.35 | -12.57 | 27.4 | 973.3 |
| 2020-10-28 18:00:00 | 7.34 | -12.72 | 27.4 | 972.5 |
| 2020-10-29 06:00:00 | 7.35 | -12.6 | 27.4 | 974 |
| 2020-10-29 18:00:00 | 7.34 | -12.7 | 27.4 | 973.2 |
| 2020-10-30 06:00:00 | 7.35 | -12.7 | 27.4 | 974.3 |
| 2020-10-30 18:00:00 | 7.34 | -12.79 | 27.4 | 972.7 |
| 2020-10-31 06:00:00 | 7.36 | -12.77 | 27.4 | 974 |
| 2020-10-31 18:00:00 | 7.34 | -12.81 | 27.4 | 973.1 |
| 2020-11-01 06:00:00 | 7.34 | -12.75 | 27.4 | 974.7 |
| 2020-11-01 18:00:00 | 7.35 | -12.79 | 27.4 | 973.9 |
| 2020-11-02 06:00:00 | 7.35 | -12.72 | 27.4 | 975 |
| 2020-11-02 18:00:00 | 7.34 | -12.85 | 27.4 | 975.3 |
| 2020-11-03 06:00:00 | 7.35 | -12.75 | 27.4 | 975.8 |
| 2020-11-03 18:00:00 | 7.34 | -12.9 | 27.4 | 974.9 |
| 2020-11-04 06:00:00 | 7.35 | -12.91 | 27.4 | 974.5 |
| 2020-11-04 18:00:00 | 7.34 | -12.81 | 27.4 | 972.7 |
| 2020-11-05 06:00:00 | 7.35 | -13.02 | 27.4 | 973.8 |
| 2020-11-05 18:00:00 | 7.34 | -13.03 | 27.4 | 975.1 |

| | | | | |
|---------------------|------|--------|------|-------|
| 2020-11-06 06:00:00 | 7.35 | -13.1 | 27.4 | 977 |
| 2020-11-06 18:00:00 | 7.35 | -13.14 | 27.4 | 977.4 |
| 2020-11-07 06:00:00 | 7.35 | -13.13 | 27.4 | 978 |
| 2020-11-07 18:00:00 | 7.34 | -13.12 | 27.4 | 978.2 |
| 2020-11-08 06:00:00 | 7.35 | -13.16 | 27.4 | 978.4 |
| 2020-11-08 18:00:00 | 7.35 | -13.32 | 27.4 | 977.9 |
| 2020-11-09 06:00:00 | 7.35 | -13.23 | 27.4 | 977.5 |
| 2020-11-09 18:00:00 | 7.34 | -13.31 | 27.4 | 975.5 |
| 2020-11-10 06:00:00 | 7.35 | -13.32 | 27.4 | 975.4 |
| 2020-11-10 18:00:00 | 7.35 | -13.43 | 27.4 | 974.4 |
| 2020-11-11 06:00:00 | 7.35 | -13.34 | 27.4 | 976.3 |
| 2020-11-11 18:00:00 | 7.35 | -13.45 | 27.4 | 975.8 |
| 2020-11-12 06:00:00 | 7.35 | -13.42 | 27.4 | 977.6 |
| 2020-11-12 18:00:00 | 7.34 | -13.7 | 27.4 | 976.5 |
| 2020-11-14 06:00:00 | 7.35 | -13.33 | 27.4 | 975.9 |
| 2020-11-14 18:00:00 | 7.34 | -13.44 | 27.4 | 974 |
| 2020-11-15 06:00:00 | 7.35 | -13.25 | 27.4 | 975.4 |
| 2020-11-15 18:00:00 | 7.34 | -13.31 | 27.4 | 973.6 |
| 2020-11-16 06:00:00 | 7.35 | -13.31 | 27.4 | 975.1 |
| 2020-11-16 18:00:00 | 7.34 | -13.43 | 27.4 | 975.6 |
| 2020-11-17 06:00:00 | 7.35 | -13.41 | 27.4 | 975.6 |
| 2020-11-17 18:00:00 | 7.35 | -13.49 | 27.4 | 972.8 |
| 2020-11-18 06:00:00 | 7.35 | -13.42 | 27.4 | 972.8 |
| 2020-11-18 18:00:00 | 7.35 | -13.12 | 27.4 | 973.3 |
| 2020-11-19 06:00:00 | 7.34 | -13.12 | 27.4 | 972.3 |
| 2020-11-19 18:00:00 | 7.35 | -13.11 | 27.4 | 972 |
| 2020-11-20 06:00:00 | 7.35 | -13.07 | 27.4 | 974.3 |
| 2020-11-20 18:00:00 | 7.34 | -13.12 | 27.4 | 973.8 |
| 2020-11-21 06:00:00 | 7.34 | -13.12 | 27.4 | 976.2 |
| 2020-11-21 18:00:00 | 7.35 | -13.16 | 27.4 | 975.8 |
| 2020-11-22 06:00:00 | 7.35 | -13.13 | 27.4 | 976.6 |
| 2020-11-22 18:00:00 | 7.35 | -13.18 | 27.4 | 976.7 |
| 2020-11-23 06:00:00 | 7.35 | -13.15 | 27.4 | 977.4 |
| 2020-11-23 18:00:00 | 7.35 | -13.17 | 27.4 | 976.3 |
| 2020-11-24 06:00:00 | 7.35 | -13.14 | 27.4 | 976.5 |
| 2020-11-24 18:00:00 | 7.35 | -13.15 | 27.4 | 975.4 |
| 2020-11-25 06:00:00 | 7.34 | -13.09 | 27.4 | 975.8 |
| 2020-11-25 18:00:00 | 7.35 | -13.16 | 27.4 | 975.7 |
| 2020-11-26 06:00:00 | 7.35 | -13.15 | 27.4 | 976.1 |
| 2020-11-26 18:00:00 | 7.34 | -13.17 | 27.4 | 976.7 |
| 2020-11-27 06:00:00 | 7.35 | -13.19 | 27.4 | 979 |
| 2020-11-27 18:00:00 | 7.35 | -13.26 | 27.4 | 979.1 |
| 2020-11-28 06:00:00 | 7.34 | -13.24 | 27.4 | 979.8 |
| 2020-11-28 18:00:00 | 7.34 | -13.29 | 27.4 | 978.2 |
| 2020-11-29 06:00:00 | 7.34 | -13.27 | 27.4 | 978.6 |
| 2020-11-29 18:00:00 | 7.35 | -13.31 | 27.4 | 977 |
| 2020-11-30 06:00:00 | 7.35 | -13.28 | 27.4 | 977.4 |
| 2020-11-30 18:00:00 | 7.35 | -13.32 | 27.4 | 976.6 |
| 2020-12-01 06:00:00 | 7.35 | -13.3 | 27.4 | 977.5 |
| 2020-12-01 18:00:00 | 7.35 | -13.36 | 27.4 | 976.3 |

| | | | | |
|---------------------|------|--------|------|-------|
| 2020-12-02 06:00:00 | 7.35 | -13.36 | 27.4 | 976.7 |
| 2020-12-02 18:00:00 | 7.34 | -13.4 | 27.4 | 974.4 |
| 2020-12-03 06:00:00 | 7.35 | -13.38 | 27.4 | 975.1 |
| 2020-12-03 18:00:00 | 7.35 | -13.45 | 27.4 | 974.2 |
| 2020-12-04 06:00:00 | 7.35 | -13.42 | 27.4 | 973.8 |
| 2020-12-04 18:00:00 | 7.34 | -13.5 | 27.4 | 972.8 |
| 2020-12-05 06:00:00 | 7.35 | -13.45 | 27.4 | 974 |
| 2020-12-05 18:00:00 | 7.34 | -13.51 | 27.4 | 973.8 |
| 2020-12-06 06:00:00 | 7.34 | -13.48 | 27.4 | 975.5 |
| 2020-12-06 18:00:00 | 7.35 | -13.56 | 27.4 | 975.3 |
| 2020-12-07 06:00:00 | 7.35 | -13.52 | 27.4 | 976.2 |
| 2020-12-07 18:00:00 | 7.34 | -13.59 | 27.4 | 977.1 |
| 2020-12-08 06:00:00 | 7.35 | -13.54 | 27.4 | 978.1 |
| 2020-12-08 18:00:00 | 7.35 | -13.62 | 27.4 | 976.2 |
| 2020-12-09 06:00:00 | 7.35 | -13.59 | 27.4 | 976.7 |
| 2020-12-09 18:00:00 | 7.34 | -13.63 | 27.4 | 974.7 |
| 2020-12-10 06:00:00 | 7.35 | -13.65 | 27.4 | 974.8 |
| 2020-12-10 18:00:00 | 7.34 | -13.72 | 27.4 | 974.6 |
| 2020-12-11 06:00:00 | 7.34 | -13.73 | 27.4 | 975.7 |
| 2020-12-11 18:00:00 | 7.34 | -13.81 | 27.4 | 975.3 |
| 2020-12-12 06:00:00 | 7.35 | -13.78 | 27.4 | 974.9 |
| 2020-12-12 18:00:00 | 7.34 | -13.87 | 27.4 | 974.9 |
| 2020-12-13 06:00:00 | 7.35 | -13.82 | 27.4 | 974.6 |
| 2020-12-13 18:00:00 | 7.34 | -13.91 | 27.4 | 973.6 |
| 2020-12-14 06:00:00 | 7.35 | -13.89 | 27.4 | 974.4 |
| 2020-12-14 18:00:00 | 7.34 | -13.92 | 27.4 | 975.8 |
| 2020-12-15 06:00:00 | 7.34 | -13.89 | 27.4 | 976.3 |
| 2020-12-15 18:00:00 | 7.34 | -13.97 | 27.4 | 977.4 |
| 2020-12-16 06:00:00 | 7.35 | -14 | 27.4 | 978.3 |
| 2020-12-16 18:00:00 | 7.34 | -14.02 | 27.4 | 978.6 |
| 2020-12-17 06:00:00 | 7.34 | -14.02 | 27.4 | 979.3 |
| 2020-12-17 18:00:00 | 7.35 | -14.11 | 27.4 | 977.8 |
| 2020-12-18 06:00:00 | 7.34 | -14.15 | 27.4 | 978 |
| 2020-12-18 18:00:00 | 7.34 | -14.11 | 27.4 | 978.1 |
| 2020-12-19 06:00:00 | 7.34 | -14.26 | 27.4 | 978.9 |
| 2020-12-19 18:00:00 | 7.34 | -14.43 | 27.4 | 978.8 |
| 2020-12-20 06:00:00 | 7.34 | -14.43 | 27.4 | 979.8 |
| 2020-12-20 18:00:00 | 7.34 | -14.55 | 27.4 | 977.9 |
| 2020-12-21 06:00:00 | 7.34 | -14.65 | 27.4 | 977.9 |
| 2020-12-21 18:00:00 | 7.34 | -14.62 | 27.4 | 975.8 |
| 2020-12-22 06:00:00 | 7.34 | -14.63 | 27.4 | 976.3 |
| 2020-12-22 18:00:00 | 7.34 | -14.77 | 27.4 | 974.7 |
| 2020-12-23 06:00:00 | 7.34 | -14.74 | 27.4 | 975.2 |
| 2020-12-23 18:00:00 | 7.34 | -14.94 | 27.4 | 973.8 |
| 2020-12-24 06:00:00 | 7.34 | -14.97 | 27.4 | 974.7 |
| 2020-12-24 18:00:00 | 7.34 | -15.1 | 27.4 | 974.1 |
| 2020-12-25 06:00:00 | 7.34 | -15.08 | 27.4 | 976.2 |
| 2020-12-25 18:00:00 | 7.34 | -15.09 | 27.4 | 975.8 |
| 2020-12-26 06:00:00 | 7.34 | -15.13 | 27.4 | 975.9 |
| 2020-12-26 18:00:00 | 7.34 | -15.25 | 27.4 | 975.8 |

| | | | | |
|---------------------|------|--------|------|-------|
| 2020-12-27 06:00:00 | 7.34 | -15.23 | 27.4 | 976 |
| 2020-12-27 18:00:00 | 7.34 | -15.15 | 27.4 | 973.2 |
| 2020-12-28 06:00:00 | 7.34 | -15.2 | 27.4 | 973.2 |
| 2020-12-28 18:00:00 | 7.34 | -15.09 | 27.4 | 973.7 |
| 2020-12-29 06:00:00 | 7.34 | -15.09 | 27.4 | 976 |
| 2020-12-29 18:00:00 | 7.33 | -15.14 | 27.4 | 975.5 |

Date/Time: Vert at 12:58:28 November 5, 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_20201105125828.IDFW

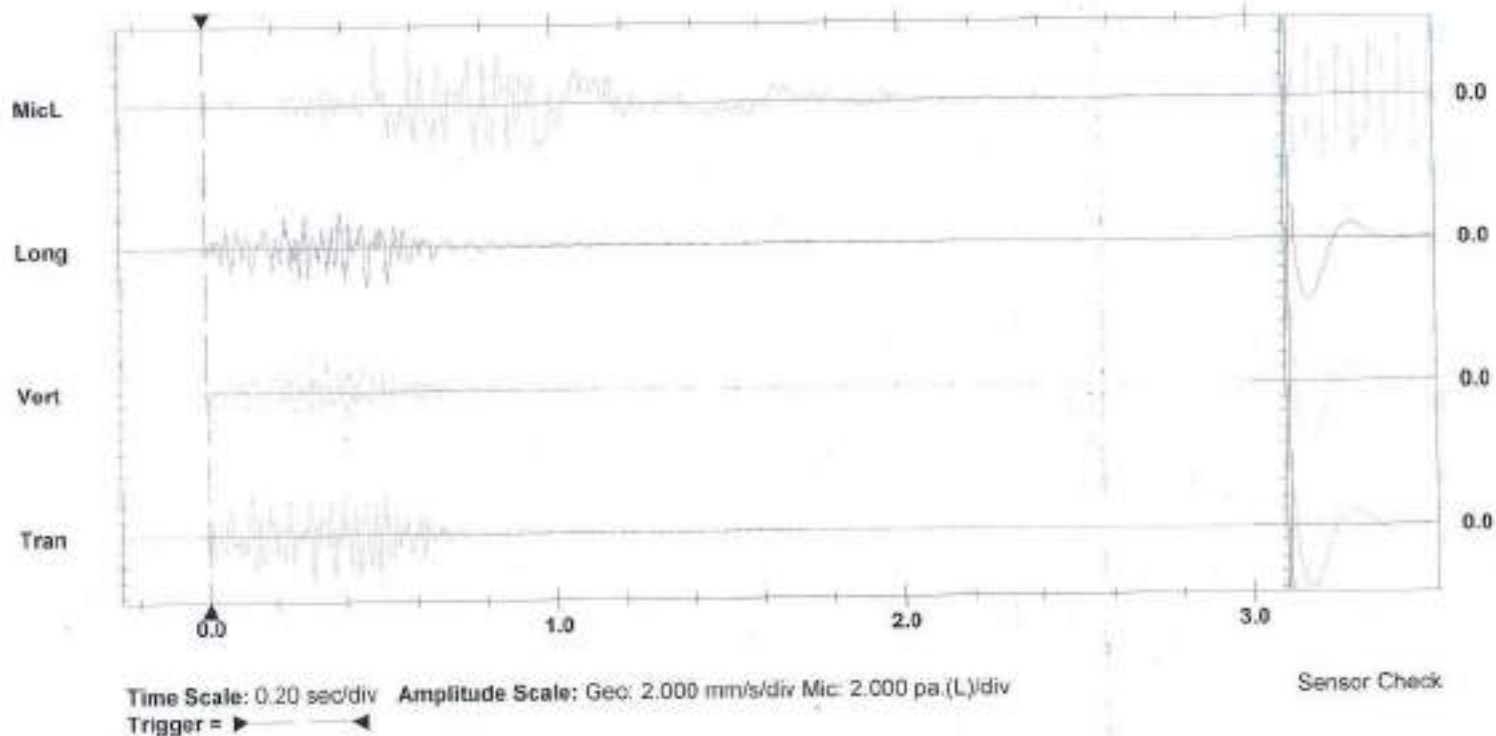
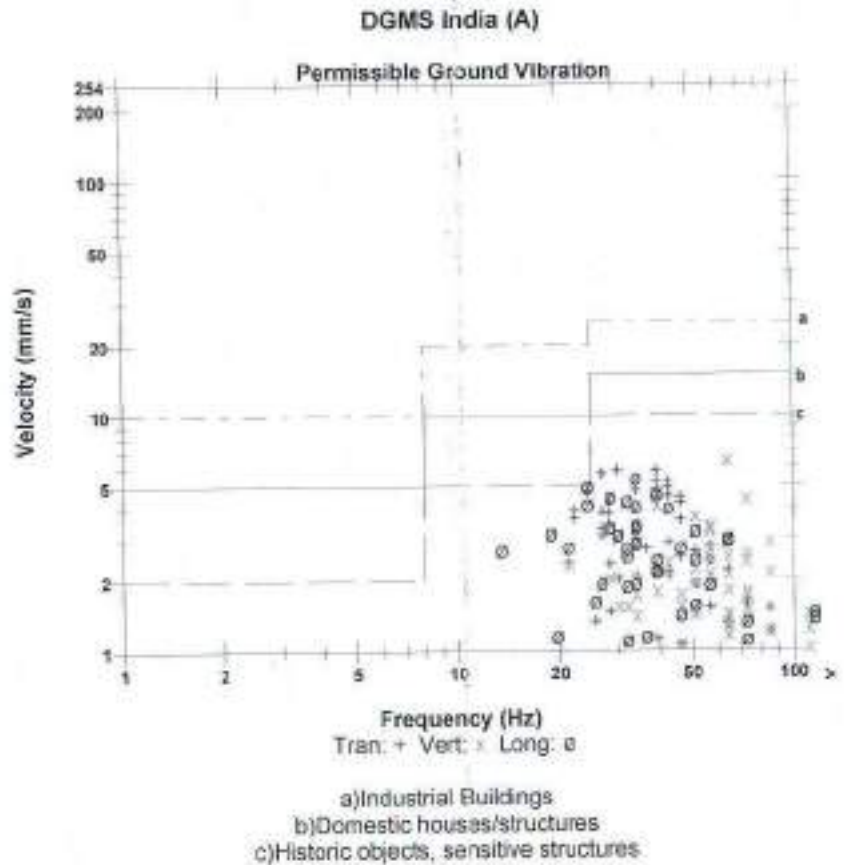
Notes:
 Location:
 Client:
 User Name:
 General:

Post Event Notes
 Bihuli MF SM, Blast no. 2020-11-08.
 Distance from blasting site to monitoring station 100m.

Microphone: Linear Weighting
 PSPL: 109.1 dB(L) 5.725 pa.(L) at 0.496 sec
 ZC Freq: 12 Hz
 Channel Test: Passed (Freq = 19.7 Hz Amp = 1201 mv)

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 5.809 | 6.432 | 5.399 | mm/s |
| ZC Freq | 30 | 64 | 34 | Hz |
| Time (Rel. to Trig) | 0.513 | 0.407 | 0.466 | sec |
| Peak Acceleration | 0.165 | 0.238 | 0.189 | g |
| Peak Displacement | 0.032 | 0.015 | 0.026 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.5 | 7.7 | 7.3 | Hz |
| Overswing Ratio | 4.2 | 3.9 | 4.3 | |

Peak Vector Sum: 7.867 mm/s at 0.407 sec



Drilling machine equipped with dust extraction system



AAQMS



Micromate - Vibration Monitoring Instrument





Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Bansgharua, Bhopal - 462 016
Tele : 0755-2466191. Fax-0755-2463742

RED-MEDIUM

CCA-Renewal

CONSENT NO: ***

PCB ID: 19449

Date of Issue: 27/02/2020

Consent No. MW-51227

To,
The Occupier,
M/s. Birla Corporation Ltd. (Birahtime Stone Mines),
56.20 HECT., BIRLA VIKAS,
BIRAHULI, City : BIRHULI,
Tal : Raghurajnagar, Dist : Satna, (M.P.)

Subject: Grant of Renewal of Consent under section 25 of the Water (Prevention & Control of Pollution) Act, 1974 under section 21 of the Air (Prevention & Control of Pollution) Act, 1986

Re: Your Renewal of Consent Application Receipt No. 903346 Dt. 23/12/2019 and last communication received on Dt. 19/02/2020

With reference to your above application for Renewal of Consent has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to 31/03/2021, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

SUBJECT TO THE FOLLOWING CONDITIONS :-

- Location: Village - BIRAHULI, Tehsil - Raghurajnagar, Dist. - Satna (M.P.)
- Mining Lease area: 56.20 ha
- Product & Production Capacity:

| Product | Qty / year |
|-----------------------------|-----------------------------------|
| MINING OF LIME STONE | 600000 Metric Ton per year |

Note - For any change in above industry, draft should be submitted from the board

The Validity of the consent is up to 31/03/2021 and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required

Enclosures:-

- * Conditions under Water Act
- * Conditions under Air Act
- * General conditions

CC to

1. District Mining Officer, (Mining Section), Collector office, Satna Dist. Satna (M.P.) for information.
2. Director, Geology & Mining Bhawan 29-A, Arera Hills, Bhopal (M.P.) for necessary action please
3. Regional officer, Regional office, MP PCB, Satna (M.P.)

e-Signed On 27/02/2020 19:18:26
(Organic Authentication on AADHAR from UIDAI Server)
TPAVCRJAGQI7UH2

R.S. Kori
R.S. KORI
Member Secretary



Consent Order

M.P. Pollution Control Board
E-5, Aerca Colony
Paryavaran Parkar, Bhopal - 46 MP
Tele : 0755-2466191, Fax-0755-2463742

CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :

1. The daily quantity of sewage output of the unit shall not exceed 0.50 KL/day
2. The applicant shall provide gulland drain and settling tank for the control of surface run off generated in the lease area during rains.
3. Sewage Treatment :- The applicant shall provide septic tank and soak pit and maintain the same properly to achieve following standards:-

| | | |
|------------------|------------|-----------|
| pH | Between | 6.5 - 9.0 |
| Suspended Solids | Not exceed | 100 mg/l |
| BOD (Days 27°C) | Not exceed | 30 mg/l |
| COD | Not exceed | 250 mg/l |
| Oil and grease | Not exceed | 10 mg/l |

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt development/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises

5. The Consent does not authorize or approve the Construction of any physical structures or facilities or the undertaking of any work in any water course or within its high flood level (HFL) area

6. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions

7. Compilation of Monitoring data:-

- i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.
- iii. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.

8. Recording of Monitoring Activities & Results:-

- i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent
- ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:-

- (i) The date, exact place and time of sampling
- (ii) The dates on which analysis were performed
- (iii) Who performed the analysis?
- (iv) The analytical techniques or methods used and
- (v) The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.

iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

9. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board

Consent No: AM-54227



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parishad, Bhopal - 462 017
Tele : 0755-2466101, Fax-0755-2463742

10. Limitation of discharge of oil/Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

11. Limitation of visible floating solids and foam

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam

12. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water. Any live fish, shell fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to waters body habitat.

13. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent

14. Prohibition of By pass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except

- where unavoidable to prevent loss of life or severe property damage, or
- Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

15. Industry/Institute/mine management shall submit the information online through XQN in reference to compliance of consent conditions.

Additional Water condition:-

- 1) Mine shall provide toilets for laborers along with septic tank and soak pit.
- 2) Mine shall treat mine water to the extent that it should meet the quality of drinking water source quality standards. The treated mine water should be used for beneficitation purposes such as plantation, irrigation etc



Consent Order

M.P. Pollution Control Board
E-5, Aera Colony
Paryavaran Parisar, Bhopal - 46 311
Tele : 0755-2446181, Fax-0755-2461742

CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis. The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated 16/11/09. Some of the parameters are as follows:
 - a. Particulate Matter (less than 10 micron) - $100 \mu\text{g}/\text{m}^3$ ($\text{PM}_{10} \mu\text{g}/\text{m}^3$ 24 hrs. basis)
 - b. Particulate Matter (less than 2.5 micron) - $60 \mu\text{g}/\text{m}^3$ ($\text{PM}_{2.5} \mu\text{g}/\text{m}^3$ 24 hrs. basis)
 - c. Sulphur Dioxide (SO_2) (24 hrs. Basis) - $80 \mu\text{g}/\text{m}^3$
 - d. Nitrogen Oxides (NO_x) (24 hrs. Basis) - $80 \mu\text{g}/\text{m}^3$
 - e. Carbon Monoxide (CO) (8 hrs. Basis) - $2000 \mu\text{g}/\text{m}^3$
2. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.
3. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.
4. Approach roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements.
5. Mine management shall take effective steps for extensive tree plantation of the local tree species with minimum spacing of 4X4 meter within or around the industry/unit premises for general improvement of environmental conditions and as stated in additional condition

Additional Air condition:-

- 1) Fixed type of water sprinkler system shall be provided on haul road.
- 2) Dense plantation shall be carried out all around the quarry lease area.
- 3) Proper & regular maintenance of the vehicles shall be under taken to suppress the frictional noise.
- 4) Transportation shall be done through covered vehicle.
- 5) Transportation should not be done through forest area.
- 6) The vehicle used for transportation of material shall be PU certified.
- 7) Water sprinkler shall be provided to avoid dust generation during material unloading.
- 8) Regular wetting/sprinkling of haul road & transportation road shall be carried out by tankers.
- 9) Over loading shall be avoided.



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Parvatan Parinar, Bhopal - 466 011
Tel : 0755-2466198, Fax: 0755-2463742

GENERAL CONDITIONS:

- The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials
 - To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board
 - To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
 - To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
 - To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent; or,
 - To sample at reasonable times any discharge or pollutants.
- This consent/authorisation is transferable, in case of change of ownership/management and addresses of new Owner/partner/Directors/proprietor should immediately apply for the same.
- The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.
- This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.
- Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date
- The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the date of expiration of this consent/authorisation
- Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act
- After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :
 - (a) Violation of any terms and conditions of this Consent.
 - (b) Obtaining this Consent by misrepresentation or failure to disclose fully all relevant facts.
 - (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.
- On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

Additional condition:-

- The Mine shall optimize the water abstraction from the surface water source by utilizing the mine discharge for spraying on haul roads, mine area and loading / unloading area after proper treatment.
- Extensive tree plantation shall be carried out in open areas available within and around the mine premises in consultation with expert agency. Good house keeping practice shall be adopted.
- Mine management shall demarcate a barrier zone as no mining zone in the periphery of mining lease area and developed a green belt
- Overburden dumps shall be stored at the earmarked location along with proper stabilization arrangements and retaining wall. Maximum height of the OB dumps shall not exceed 20 meters and each stage shall be of 10 meter height with slope of shall not exceed 35°. Mine shall have to take effective steps to check the soil erosion from overburden/waste material dumping area, causing silting problem into nearby nullah/river/pond during the rainy season.
- Mine Management shall construct Garland drain of with stone pitching all around, and with settling tank of appropriate size. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.
- Top soil shall be scraped & separately stacked with proper slope and adequate safeguards; it shall be utilized for carpeting over the backfilled area and rehabilitation of mined out area.
- Mine management shall provide artificial recharger measures, rain water harvesting system.
- Mine management shall provide fencing all around the lease area to prevent the accident hazard.
- The Mine shall improve their existing pollution control facilities and maintain the same properly so that the emission could be maintained within the prescribed standards.



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Parvatanar Park, Bhopal - 466 016
Tel : 4755-2466191. Fax: 4755-2463742

10. Controlled blasting should be practiced with the use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented
11. Mine management shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.
12. Mine management shall ensure the compliance of conditions of Environmental clearance.
13. Mine shall comply the provisions of all the relevant Acts/Rules/Directives/Guidelines issued by MoEF/CPCB/MPPCB time to time as required and if applicable.
14. Mine shall comply the Directions/ Orders issued by Hon'ble Supreme Court/ High Court/ NGT time to time in the relevant Writ Petitions.
15. Mine management shall install industrial grade HD IP (Internet Protocol) Pan-Tilt-Zoom (PTZ) Camera with minimum 5X zoom and night vision facility for remote surveillance and constant vigil of emission source.
16. Mine management shall establish suitable connectivity of IP-Camera with Environment Surveillance Centre at the HQ of M.P. Pollution Control Board for monitoring and data transmission purpose

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorisation. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

For and on behalf of
M.P. Pollution Control Board

e-Signed On 27/02/2020 19:18:26
(Organic Authentication on AADHAR from UIDAI Server)
TPAV # RJAGQJ7UH2

R.S. KORI
Member Secretary

Consent No: AM-51227

| REPORT DATE :29/12/2020 | | | | | | | | | | |
|--|------------------|------------|---------|------------|---------------------|----------------------|--------------|------------|--------|--------|
| DETAILED DIESEL REPORT | | | | | | | | | | |
| DEALER CODE : BIRLA/01 | | | | | | | | | | |
| DEALER NAME : BIRLA CORPORATION LIMITED UNIT SATNA | | | | | | | | | | |
| ADDRESS : BIRLA CORPORATION LIMITED UNIT SATNA CEMENT | | | | | | | | | | |
| For Duration from : 11/11/2020 to 13/11/2020 PUC Checked From: 0001 To: 600004280,1112 | | | | | | | | | | |
| PTC No. | V. Reg. No. | Test Date | Time | Valid UpTo | Make | Model | Category | Reg. Year | % HSU | Result |
| 1112 | DOZER NO-10 | 11/12/2020 | 12:08PM | 5/11/2021 | KOMATSU | D155A | DOZER | 12/7/2006 | 63.9% | PASS |
| 1113 | DOZER NO-12 | 11/13/2020 | 12:18PM | 5/12/2021 | KOMATSU | D155A | DOZER | 16/03/2009 | 62.70% | PASS |
| 1114 | DOZER NO-13 | 11/13/2020 | 12:29PM | 5/12/2021 | KOMATSU | D155A | DOZER | 16/03/2009 | 61.80% | PASS |
| 1115 | DOZER NO-14 | 11/13/2020 | 12:37PM | 5/12/2021 | CAT | D8R | DOZER | 12/9/2011 | 56.50% | PASS |
| 1116 | DOZER NO-15 | 11/13/2020 | 12:52PM | 5/12/2021 | CAT | D8R | DOZER | 19/12/2013 | 54.80% | PASS |
| 1117 | DRILL NO-7 | 11/13/2020 | 01:12PM | 5/12/2021 | ATLAS COPCO | IR IBH-10 | DRILL | 11/6/2000 | 42.80% | PASS |
| 1118 | DRILL NO-9 | 11/13/2020 | 01:27PM | 5/12/2021 | ATLAS COPCO | IR IBH-10 | DRILL | 5/4/2004 | 44.60% | PASS |
| 1119 | DRILL NO-10 | 11/13/2020 | 01:39PM | 5/12/2021 | ATLAS COPCO | ATLAS COPCO IBH-12 | DRILL | 18/10/2005 | 40.80% | PASS |
| 1120 | DRILL NO-11 | 11/13/2020 | 01:57PM | 5/12/2021 | ATLAS COPCO | ATLAS COPCO IBH-12 | DRILL | 18/06/2008 | 46.80% | PASS |
| 1121 | DRILL NO-12 | 11/13/2020 | 02:17PM | 5/12/2021 | ATLAS COPCO | ROC L8 | DRILL | 3/11/2012 | 33.90% | PASS |
| 1122 | CAT DUMPER NO-1 | 11/13/2020 | 01:17PM | 5/12/2021 | CATRPILLAR | CAT773D | CAT DUMPER | 00/12/2008 | 47.70% | PASS |
| 1123 | CAT DUMPER NO-2 | 11/13/2020 | 01:29PM | 5/12/2021 | CATRPILLAR | CAT773D | CAT DUMPER | 00/12/2008 | 43.60% | PASS |
| 1124 | CAT DUMPER NO-3 | 11/13/2020 | 01:42PM | 5/12/2021 | CATRPILLAR | CAT773D | CAT DUMPER | 00/01/2009 | 50.60% | PASS |
| 1125 | CAT DUMPER NO-4 | 11/13/2020 | 01:55PM | 5/12/2021 | CATRPILLAR | CAT773E | CAT DUMPER | 00/02/2011 | 45.80% | PASS |
| 1126 | CAT DUMPER NO-5 | 11/13/2020 | 02:25PM | 5/12/2021 | CATRPILLAR | CAT773E | CAT DUMPER | 00/02/2011 | 37.80% | PASS |
| 1127 | CAT DUMPER NO-6 | 11/13/2020 | 02:49PM | 5/12/2021 | CATRPILLAR | CAT773E | CAT DUMPER | 00/03/2011 | 39.50% | PASS |
| 1128 | CAT DUMPER NO-7 | 11/13/2020 | 03:19PM | 5/12/2021 | CATRPILLAR | CAT773E | CAT DUMPER | 00/01/2017 | 29.80% | PASS |
| 1129 | CAT DUMPER NO-8 | 11/13/2020 | 03:49PM | 5/12/2021 | CATRPILLAR | CAT773E | CAT DUMPER | 00/01/2018 | 26.60% | PASS |
| 1130 | CAT DUMPER NO-9 | 11/13/2020 | 04:19PM | 5/12/2021 | CATRPILLAR | CAT773E | CAT DUMPER | 00/02/2019 | 27.40% | PASS |
| 1132 | EXCAVATOR P-5 | 11/13/2020 | 04:26PM | 5/12/2021 | L&T | L&T 300 CK | EXCAVATOR | 00/04/2009 | 42.40% | PASS |
| 1133 | EXCAVATOR PC-1 | 11/13/2020 | 04:34PM | 5/12/2021 | KOMATSU | K-PC1250-7 | EXCAVATOR | 00/07/2009 | 44.50% | PASS |
| 1134 | LOADER | 11/13/2020 | 04:46PM | 5/12/2021 | CAT | LWL988H | LOADER | 00/10/2011 | 50.70% | PASS |
| 1135 | TATA HITACHI | 11/13/2020 | 04:55PM | 5/12/2021 | TATA HITACHI | ZX650H | TATA HITACHI | 00/12/2013 | 46.40% | PASS |
| 1136 | VOLVO NO-1 | 11/13/2020 | 05:25PM | 5/12/2021 | VOLVO | EC750 DL | VOLVO | 00/11/2016 | 35.70% | PASS |
| 1137 | VOLVO NO-2 | 11/13/2020 | 05:18PM | 5/12/2021 | VOLVO | EC750 DL | VOLVO | 00/11/2019 | 15.90% | PASS |
| 1138 | ROCK BREAKER-3 | 11/13/2020 | 05:25PM | 5/12/2021 | L&T | 90CK | ROCK BREAKER | 00/12/2005 | 59.30% | PASS |
| 1139 | ROCK BREAKER-4 | 11/13/2020 | 05:36PM | 5/12/2021 | L&T | 90CK | ROCK BREAKER | 00/12/2008 | 50.30% | PASS |
| 1140 | ROCK BREAKER-5 | 11/13/2020 | 05:46PM | 5/12/2021 | L&T | 300CK | ROCK BREAKER | 00/03/2011 | 40.30% | PASS |
| 7 | MP19GA0199 | 11/11/2020 | 02:58PM | 5/10/2021 | TATA MOTORS | TATA 207 DI | MINI TRUCK | 3/31/2006 | 46.50% | PASS |
| 8 | MKA-9708 (NO-1) | 11/11/2020 | 03:18PM | 5/10/2021 | TATA MOTORS | EXPLOSIVE VAN-1210 S | TRUCK | 10/2/1989 | 63.70% | PASS |
| 9 | MP19GA0847 | 11/11/2020 | 03:18PM | 5/10/2021 | TATA MOTORS | EXPLOSIVE 1613 | TRUCK | 11/6/2009 | 49.80% | PASS |
| 10 | MP19GA1091 | 11/11/2020 | 03:28PM | 5/10/2021 | TATA MOTORS | TATA 407 BS2 | MINI TRUCK | 12/23/2010 | 59.50% | PASS |
| 11 | MBA-7239 | 11/11/2020 | 03:38PM | 5/10/2021 | FORD | TRACTOR | TRACTOR | 14/10/1983 | 57.90% | PASS |
| 12 | MP19-9845 (NO-2) | 11/11/2020 | 03:54PM | 5/10/2021 | HMT | TRACTOR | TRACTOR | 14/11/1991 | 55.60% | PASS |
| 13 | MP19AB2956 | 11/11/2020 | 04:04PM | 5/10/2021 | ESCORTS | FARM TRACTOR 35 | TRACTOR | 11/9/2009 | 40.60% | PASS |
| 14 | MP19AB4177 | 11/11/2020 | 04:12PM | 5/10/2021 | ESCORTS | FARM TRACTOR 65 | TRACTOR | 5/3/2011 | 41.90% | PASS |
| 600004279 | MP19GA1046 | 11/13/2020 | 09:34AM | 5/12/2021 | MAHINDRA & MAHINDRA | BOLERO CAMPAR | MINI TRUCK | 10/14/2010 | 30.60% | PASS |
| 16 | MP19GA2737 | 11/11/2020 | 04:32PM | 5/10/2021 | TATA MOTORS | TATA 407 BS4 | MINI TRUCK | 21/11/2014 | 35.50% | PASS |
| 17 | MP19GA3725 | 11/11/2020 | 04:47PM | 5/10/2021 | TATA MOTORS | TATA 407 BS4 | MINI TRUCK | 10/16/2017 | 26.50% | PASS |
| 600004278 | MP19CB6624 | 11/13/2020 | 09:32AM | 5/12/2021 | MAHINDRA & MAHINDRA | BOLERO EX BS4 | JEEP | 8/31/2017 | 20.30% | PASS |
| 600004275 | MP19CA9591 | 11/13/2020 | 09:23AM | 5/12/2021 | MAHINDRA & MAHINDRA | BOLERO EX BS3 | JEEP | 12/13/2013 | 37.34% | PASS |
| 600004280 | MP19CA8438 | 11/13/2020 | 09:35AM | 5/12/2021 | MAHINDRA & MAHINDRA | BOLERO EX BS3 | JEEP | 2/18/2013 | 53.89% | PASS |
| 600004276 | MP19L0369 | 11/13/2020 | 09:25AM | 5/12/2021 | TATA MOTORS | WINGER BS2 | JEEP | 10/14/2009 | 45.83% | PASS |
| TOTAL : | | | | | | | | | 43 | |

Annexure 17A - Birhuli Mines Production Report
July to Dec 2020

| Sr. No. | Month | Production |
|---------|----------|------------|
| 1 | July | 32688 |
| 2 | August | 40926 |
| 3 | Sept. | 25120 |
| 4 | October | 45909 |
| 5 | November | 44103 |
| 6 | December | 48675 |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :
Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :
July, 2020

| Description | Quarry_Station_1-CO(pphm) | Quarry_Station_1-NOx(pphm) | Quarry_Station_1-PM2.5(pphm) | Quarry_Station_1-PM10(pphm) | Quarry_Station_1-SO2(pphm) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 1.12 | 37.98 | 37.50 | 46.73 | 13.63 |
| Minimum Data | 0.13 | 3.95 | 4.63 | 16.83 | 3.4 |
| Data Availability % | 99.37% | 90.33% | 83.86% | 99.37% | 90.33% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :
Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :
August, 2020

| Description | Quarry_Station_1-CO(pphm) | Quarry_Station_1-NOx(pphm) | Quarry_Station_1-PM2.5(pphm) | Quarry_Station_1-PM10(pphm) | Quarry_Station_1-SO2(pphm) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 1.87 | 23.10 | 17.05 | 92.33 | 26.32 |
| Minimum Data | 0.25 | 11.22 | 6.49 | 12.91 | 13.66 |
| Data Availability % | 90.40% | 96.67% | 96.67% | 96.67% | 80.23% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :
Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :
Sept, 2020

| Description | Quarry_Station_1-CO(pphm) | Quarry_Station_1-NOx(pphm) | Quarry_Station_1-PM2.5(pphm) | Quarry_Station_1-PM10(pphm) | Quarry_Station_1-SO2(pphm) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.63 | 42.78 | 25.29 | 90.63 | 17.88 |
| Minimum Data | 0.20 | 11.43 | 8.13 | 11.04 | 5.2 |
| Data Availability % | 90.25% | 92.30% | 87.95% | 89.78% | 98.47% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Aera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satra

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Oct,2020

| Description | Quarry_Station_1-CO(mgm3) | Quarry_Station_1-NOx(mgm3) | Quarry_Station_1-PM2.5(mgm3) | Quarry_Station_1-PM10(mgm3) | Quarry_Station_1-SO2(mgm3) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.66 | 22.06 | 36.87 | 93.60 | 13.33 |
| Minimum Data | 0.35 | 14.09 | 28.97 | 48.15 | 2.5 |
| Data Availability % | 87.42% | 90.00% | 88.00% | 99.00% | 90.00% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Aera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satra

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Nov,2020

| Description | Quarry_Station_1-CO(mgm3) | Quarry_Station_1-NOx(mgm3) | Quarry_Station_1-PM2.5(mgm3) | Quarry_Station_1-PM10(mgm3) | Quarry_Station_1-SO2(mgm3) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.85 | 24.48 | 55.00 | 94.71 | 28.96 |
| Minimum Data | 0.17 | 17.45 | 23.57 | 47.89 | 12.40 |
| Data Availability % | 82.78% | 92.50% | 82.78% | 82.78% | 82.76% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parisar, E-5, Aera Colony, Bhopal - 462016 (M.P.)
Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satra

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Dec,2020

| Description | Quarry_Station_1-CO(mgm3) | Quarry_Station_1-NOx(mgm3) | Quarry_Station_1-PM2.5(mgm3) | Quarry_Station_1-PM10(mgm3) | Quarry_Station_1-SO2(mgm3) |
|----------------------|---------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.86 | 31.27 | 43.98 | 93.20 | 20.17 |
| Minimum Data | 0.39 | 16.50 | 21.95 | 41.99 | 3.7 |
| Data Availability % | 97.00% | 85.71% | 97.00% | 80.71% | 97.00% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2468180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satna

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

July, 2020

| Description | Quarry_Station_2-CO ₂ (mg/m ³) | Quarry_Station_2-NO _x (mg/m ³) | Quarry_Station_2-PM _{2.5} (mg/m ³) | Quarry_Station_2-PM ₁₀ (mg/m ³) | Quarry_Station_2-SO ₂ (mg/m ³) |
|----------------------|---|---|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 30 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.48 | 28.63 | 30.61 | 97.62 | 11.92 |
| Minimum Data | 0.25 | 2.59 | 6.71 | 18.58 | 9.17 |
| Data Availability % | 88.84% | 74.12% | 88.84% | 88.84% | 88.81% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2468180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satna

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Aug, 2020

| Description | Quarry_Station_2-CO ₂ (mg/m ³) | Quarry_Station_2-NO _x (mg/m ³) | Quarry_Station_2-PM _{2.5} (mg/m ³) | Quarry_Station_2-PM ₁₀ (mg/m ³) | Quarry_Station_2-SO ₂ (mg/m ³) |
|----------------------|---|---|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 30 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.32 | 21.35 | 33.88 | 95.69 | 17.59 |
| Minimum Data | 0.11 | 3.36 | 8.76 | 11.22 | 5.31 |
| Data Availability % | 96.65% | 96.65% | 96.65% | 93.33% | 96.65% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2468180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :

Satna

R.O. :

15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Sept, 2020

| Description | Quarry_Station_2-CO ₂ (mg/m ³) | Quarry_Station_2-NO _x (mg/m ³) | Quarry_Station_2-PM _{2.5} (mg/m ³) | Quarry_Station_2-PM ₁₀ (mg/m ³) | Quarry_Station_2-SO ₂ (mg/m ³) |
|----------------------|---|---|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 30 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.31 | 29.84 | 55.91 | 94.81 | 33.90 |
| Minimum Data | 0.11 | 3.03 | 17.63 | 36.72 | 6.48 |
| Data Availability % | 89.66% | 89.66% | 89.66% | 81.38% | 89.66% |

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :

Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Oct, 2020

| Description | Quarry_Station_2-CO ₂ (ppm) | Quarry_Station_3-NO _x (ppm) | Quarry_Station_3-PM _{2.5} (ug/m ³) | Quarry_Station_3-PM ₁₀ (ug/m ³) | Quarry_Station_2-SO ₂ (ug/m ³) |
|----------------------|--|--|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.69 | 23.70 | 52.88 | 95.28 | 28.36 |
| Minimum Data | 0.34 | 1.94 | 23.27 | 47.37 | 7.92 |
| Data Availability % | 90.00% | 90.00% | 90.00% | 90.00% | 90.00% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :

Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Nov, 2020

| Description | Quarry_Station_2-CO ₂ (ppm) | Quarry_Station_3-NO _x (ppm) | Quarry_Station_3-PM _{2.5} (ug/m ³) | Quarry_Station_3-PM ₁₀ (ug/m ³) | Quarry_Station_2-SO ₂ (ug/m ³) |
|----------------------|--|--|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.88 | 31.36 | 49.69 | 92.55 | 12.86 |
| Minimum Data | 0.47 | 4.83 | 24.51 | 65.34 | 3.98 |
| Data Availability % | 96.55% | 96.55% | 96.55% | 96.55% | 93.10% |



Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parikar, E-5, Arera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : erc.mppcb@nic.in, Web : www.erc.mp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :

Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period :

Dec, 2020

| Description | Quarry_Station_2-CO ₂ (ppm) | Quarry_Station_3-NO _x (ppm) | Quarry_Station_3-PM _{2.5} (ug/m ³) | Quarry_Station_3-PM ₁₀ (ug/m ³) | Quarry_Station_2-SO ₂ (ug/m ³) |
|----------------------|--|--|---|--|---|
| Prescribed Standards | 0 - 4 | 0 - 80 | 0 - 60 | 0 - 100 | 0 - 80 |
| Maximum Data | 0.63 | 67.27 | 54.94 | 83.24 | 33.71 |
| Minimum Data | 0.13 | 2.05 | 23.01 | 12.86 | 2.61 |
| Data Availability % | 96.43% | 96.43% | 96.43% | 93.67% | 96.43% |



HDD 272, Phase III - Near J.P. Chowk
Ring Road No. 2, Kabi Nagar, Raipur (C.G.) - 492009
Ph : 0771 - 4027777 Email: ultimateenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

| | | |
|---|---------------------------------------|--|
| Form & Address Of The Customer
To,
Birla Corporation Limited
Unit-Sagmaha Limestone Mines
(A Unit of MP Birla Group)
PO : Birla Vikas, Satna -485005,
M.P. India | | REPORT NO
UTS/TR/20-21/03515 |
| | | LAB REF NO
UTS/20-21/M/03162 |
| | | DATE OF REPORT
23/12/2020 |
| | | DATE OF SAMPLING
15/12/2020 to 16/12/2020 |
| SAMPLE DETAILS | | |
| MONITORING FOR | AMBIENT NOISE LEVEL MONITORING | |
| CUSTOMER REF. NO. & DATE | 4580448372, DATED :04.12.2020 | |
| SAMPLING LOCATION | SAGMAHA LIMESTONE MINES | |
| SAMPLE COLLECTED BY | LABORATORY CHEMIST | |
| SAMPLING PROCEDURE | MANUFACTURER'S INSTRUCTION | |

| TEST REPORT | | | | | |
|-----------------------------|-------|----------|------------|------------------------------|------------|
| LOCATION | UNIT | RESULT | | CPCB LIMIT (INDUSTRIAL ZONE) | |
| | | DAY TIME | NIGHT TIME | DAY TIME | NIGHT TIME |
| LABOUR COLONY (EAST) | dB(A) | 66.3 | 49.6 | 75 | 70 |
| A-QUARRY PUMP HOUSE(WEST) | dB(A) | 66.8 | 52.1 | | |
| ANFO MIXING SHELTER (NORTH) | dB(A) | 72.6 | 58.2 | | |
| QUARRY DISPENSARY (SOUTH) | dB(A) | 71.8 | 54.8 | | |

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of this report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for (noise level) only.

| | | |
|-------------------------------|--|--|
| PREPARED BY

23/12/2020 | | For ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY
23/12/2020 |
|-------------------------------|--|--|

End of the test report

| | | | |
|---|--------------------------------------|------------------|--------------------------|
| Name & Address Of The Customer | | REPORT NO | UES/TR/20-21/03517 |
| To, | | LAB REF NO | UES/20-21/N/03164 |
| Birla Corporation Limited | | DATE OF REPORT | 23/12/2020 |
| Unit-Sagmamba Limestone Mines | | DATE OF SAMPLING | 15/12/2020 to 16/12/2020 |
| (A Unit of MP Birla Group) | | | |
| PO : Birla Vikas, Satna -485005, | | | |
| M.P. India | | | |
| SAMPLE DETAILS | | | |
| MONITORING FOR | WORK ZONE NOISE LEVEL MONITORING | | |
| CUSTOMER REF. NO. & DATE | 458448372, DATED 04.12.2020 | | |
| SAMPLING LOCATION | SAGMAMBA LIMESTONE MINES NOISE LEVEL | | |
| SAMPLE COLLECTED BY | LABORATORY CHEMIST | | |
| SAMPLING PROCEDURE | MANUFACTURER'S INSTRUCTION | | |

| TEST REPORT | | | |
|------------------------------------|---------|-------|-----------------|
| LOCATION | | UNIT | RESULT
dB(A) |
| NEAR 1200 TPH CRUSHER | INSIDE | dB(A) | 82.0 |
| | OUTSIDE | dB(A) | 82.8 |
| NEAR 800 TPH | INSIDE | dB(A) | 84.6 |
| | OUTSIDE | dB(A) | 80.4 |
| NEAR DUMPER GARAGE | | dB(A) | 76.3 |
| NEAR MECHANICAL WORKSHOP | INSIDE | dB(A) | 72.8 |
| | OUTSIDE | dB(A) | 77.1 |
| NEAR MINES OFFICE | INSIDE | dB(A) | 77.5 |
| | OUTSIDE | dB(A) | 79.7 |
| NEAR ROM HOPPER (1200 TPH CRUSHER) | | dB(A) | 80.4 |
| NEAR ROM HOPPER (800 TPH CRUSHER) | | dB(A) | 82.9 |
| 1200 TPH CRUSHER INSIDE COR | | dB(A) | 82.9 |
| 800 TPH CRUSHER INSIDE COR | | dB(A) | 81.4 |
| NEAR MINES MAIN GATE | | dB(A) | 76.6 |
| INSIDE PHYSICAL LAB | | dB(A) | 80.8 |
| NEAR CONVEYOR BELT (BC-S BELT) | | dB(A) | 84.8 |
| NEAR MINES STAFF COLONY | | dB(A) | 71.8 |

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The use of the report for publication, arbitration or as legal document is forbidden.
- Test sample will be released for 3 days after issue of report unless otherwise agreed with customer.
- Plus info information as the party has called for above.

| | | |
|--|---|---|
| 
PREPARED BY |  | for ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY |
|--|---|---|

End of the test report

HDD 272, Phase II - Near J.P. Chowk
Ring Road No-2, Katar Nigah, Haridwar (C.O.) - 492099
Ph: 0771-4027777 | Email: ultimateenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

| | | | | | |
|--|--|--|--|--------------------------|-----------------|
| Name & Address Of The Customer
To,
Birla Corporation Limited
Unit-Sagmania Limestone Mines
(A Unit of MP Birla Group)
PO : Birla Vikas, Satna -485005, M.P.
India | | Report No. | | UES/TR/20-21/03514 | |
| | | Lab Ref No. | | UES/20-21/AACM/00065 | |
| | | Date of Sampling | | 14/12/2020 to 15/12/2020 | |
| | | Date of Receipt | | 17/12/2020 | |
| | | Date of Report | | 22/12/2020 | |
| | | Date of Analysis | | Start: 18/12/2020 | End: 22/12/2020 |
| SAMPLE DETAILS | | | | | |
| Monitoring for | | Ambient Air Quality Monitoring | | | |
| Sampling Location | | Labour Colony (East) | | | |
| Customer Ref. No. & Date | | 4566445372, DATED 04.12.2020 | | | |
| Duration Of Sampling | | As per CPCB norms | | | |
| Sample Collected By | | Laboratory Chemist | | | |
| Sampling Procedure | | As Per Method Reference | | | |
| Sample Quantity/Packing | | Filter Paper (PM10): 141 No., Filter Paper (PM2.5): 131 No. SO2: 30ml03 No. PVC Bottle, NO2: 30ml03 No. PVC BOTTLE, Rubber Bladder 210 No., ORNG: CARBONAL TUBE, OZONE: 30ml03 No. Brown PVC Bottle, NH3: 100ml03 No. Brown PVC Bottle | | | |

| TEST REPORT | | | | |
|--|-------------------|---|---------------|-------------------------------|
| PARAMETER | UNIT | METHOD REFERENCE | CPCB STANDARD | RESULT
Labour Colony (EAS) |
| Particulate Matter size less than 10 microns (PM ₁₀) | µg/m ³ | IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I | 100 | 98.0 |
| Particulate Matter size less than 2.5 microns (PM _{2.5}) | µg/m ³ | CPCB Guidelines Vol.-I | 60 | 42.0 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | IS 5182 (Part 21): 2003, MA 2006 & CPCB Guidelines Vol.-I | 80 | 10.6 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | IS 5182 (Part 21): 2003 & CPCB Guidelines Vol.-I | 80 | 24.0 |
| Carbon Monoxide (CO)* | µg/m ³ | IS 5182 (Part 10): 1999, MA 2003 | 4.0 | 0.64 |
| Lead (Pb) | µg/m ³ | CPCB Guidelines Vol-I and AAS Method | 1.0 | N.D. |
| Nickel (Ni) | µg/m ³ | CPCB Guidelines Vol-I and AAS Method | 20 | N.D. |
| Arsenic (As) | µg/m ³ | CPCB Guidelines Vol-I and AAS Method | 6.0 | N.D. |
| Ozone (O ₃)† | µg/m ³ | CPCB Guidelines Vol-I | 180 | 6.4 |
| Ammonia (NH ₃) | µg/m ³ | CPCB Guidelines Vol-I | 400 | 12.4 |
| Benzene (C ₆ H ₆) | µg/m ³ | IS 5182 (Part 12): 2004 | 5.0 | N.D. |
| Benzotriazole Pyrene | µg/m ³ | IS 5182 (Part 12): 2014 | 1.0 | N.D. |

REMARKS:- These Results are on the basis of 1 hour sampling. N.D.: Not Detected

Terms & conditions:

- The use of the report for publication, circulation or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of the report unless otherwise agreed with customer.
- This is for information of the party has asked for test analysis.

| | | |
|---|---|--|
| 
PREPARED BY |  | 
AUTHORIZED SIGNATORY |
|---|---|--|

End of the test report

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

| | | | | | |
|---|--|--|--|--------------------------|-----------------|
| Name & Address Of The Customer
To,
Birla Corporation Limited
Unit-Sagmania Limestone Mines
(A Unit of MP Birla Group)
PO : Birla Vikas, Satna -485005, M.P.
India | | Report No. | | UES/TB/20-22/0812 | |
| | | Lab Ref No. | | UES/20-22/AAQM/08159 | |
| | | Date of Sampling | | 14/12/2020 to 15/12/2020 | |
| | | Date of Receipt | | 17/12/2020 | |
| | | Date of Report | | 23/12/2020 | |
| | | Date of Analysis | | Starts 15/12/2020 | End: 23/12/2020 |
| SAMPLE DETAILS | | | | | |
| Monitoring For | | Ambient Air Quality Monitoring | | | |
| Sampling Location | | A-Quarry Pump House (West) | | | |
| Customer Ref. No. & Date | | 4149448572, DATED: 04.12.2020 | | | |
| Duration Of Sampling | | As per CPCB norms | | | |
| Sample Collected By | | Laboratory Chemist | | | |
| Sampling Procedure | | As Per Method Reference | | | |
| Sample Quantity/Packing | | Filter Paper (PM10): 1X1 No., Filter Paper (PM2.5): 1X1 No. SO2: 30mDL No. PVC Bottle, NO2: 30mDL No. PVC BOTTLE, Sulphur Dioxide: 1X1 No., CANE: CARCONAL Tube, OZONE: 30mDL No. Brown PVC Bottle, NH4 10mDL No. Brown PVC Bottle | | | |

| TEST REPORT | | | | |
|--|--------------------|---|---------------|--------------------------------------|
| PARAMETER | UNIT | METHOD REFERENCE | CPCB STANDARD | RESULT
A-Quarry Pump House (West) |
| Particulate Matter size less than 10 microns (PM ₁₀) | µg/m ³ | IS 5182 (Part 2): 2004 & CPCB Guidelines Vol.-I | 100 | 92.0 |
| Particulate Matter size less than 2.5 microns (PM _{2.5}) | µg/m ³ | CPCB Guidelines Vol.-I. | 60 | 39.0 |
| Sulphur Dioxide (SO ₂) | ppb/m ³ | IS 5182 (Part 2): 2001, & 2006 & CPCB Guidelines Vol.-I | 80 | 12.4 |
| Nitrogen Dioxide (NO ₂) | ppb/m ³ | IS 5182 (Part 4): 2004 & CPCB Guidelines Vol.-I | 80 | 22.6 |
| Carbon Monoxide (CO) * | ppb/m ³ | IS 5182(Part 10):1999, & 2003 | 4.0 | 0.42 |
| Lead (Pb) | µg/m ³ | CPCB Guidelines Vol.-I and AAS method | 1.0 | N.D. |
| Nickel (Ni) | ng/m ³ | CPCB Guidelines Vol.-I and AAS method | 20 | N.D. |
| Arsenic (As) | ng/m ³ | CPCB Guidelines Vol.-I and AAS method | 6.0 | N.D. |
| Ozone (O ₃) * | µg/m ³ | CPCB Guidelines Vol.-I | 180 | 6.5 |
| Amonia (NH ₃) | µg/m ³ | CPCB Guidelines Vol.-I | 400 | 12.4 |
| Benzene (C ₆ H ₆) | ppb/m ³ | IS 5182 (Part 11):2004 | 5.0 | N.D. |
| Benzo(a) Pyrene | ng/m ³ | IS 5182 (Part 12):2014 | 1.0 | N.D. |

REMARKS: These Results are on the basis of 1 hour sampling. N.D.: Not Detected**Terms & conditions**

- The use of the report for publication, circulation or as legal evidence is forbidden.
- Test sample will be retained for 15 days after issue of report unless otherwise agreed with customer.
- This is for information as the party has asked for.

| | | |
|--|---|---|
| 
PREPARED BY
23/12/2020 |  | 
AUTHORIZED SIGNATORY
23/12/2020 |
|--|---|---|

End of the test report



POD-372, Phase II - Near J.P. Chowk
Ring Road No-02, Kashi Nagar, Rajpur (C.G.) - 482005
Ph: 0771-4827771 E-mail: ultimateenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

| | | | |
|--|------------------|--------------------------|-----------------|
| Name & Address Of The Customer
To,
Birla Corporation Limited
Unit-Sagmania Limestone Mines
(A Unit of MP Birla Group)
PO : Birla Vikas, Satna -485005, M.P.
India | Report No. | UES/TR/20-21/03513 | |
| | Lab Ref No. | UES/20-21/AACM/03104 | |
| | Date of Sampling | 14/12/2020 to 15/12/2020 | |
| | Date of Receipt | 17/12/2020 | |
| | Date of Report | 23/12/2020 | |
| | Date of Analysis | Start: 18/12/2020 | End: 23/12/2020 |

| SAMPLE DETAILS | |
|--------------------------|--|
| Monitoring For | Ambient Air Quality Monitoring |
| Sampling Location | ANFO Mining Shelter (North) |
| Customer Ref. No. & Date | 4580446372, DATED: 08.12.2020 |
| Duration Of Sampling | As per CPCB norms |
| Sample Collected By | Laboratory Chemist |
| Sampling Procedure | As Per Method Reference |
| Sample Quantity/Packing | Filter Paper (PM10): 1X1 No., Filter Paper (PM2.5): 1X1 No. 100: 30WBC No. PVC BOTTLE, 100: 30WBC No. PVC BOTTLE, Rubber bladder: 10L No., OSHG: CARBON Tube, OZONE: 100ML No. Brown PVC Bottle, 100: 30WBC No. Brown PVC Bottle |

| TEST REPORT | | | | |
|--|-------------------|--|---------------|---------------------------------------|
| PARAMETER | UNIT | METHOD REFERENCE | CPCB STANDARD | RESULT
ANFO Mining Shelter (North) |
| Particulate Matter size less than 10 microns (PM ₁₀) | ug/m ³ | IS 5182 (Part 23): 2004 & CPCB Guidelines Vol.-I | 100 | 70.0 |
| Particulate Matter size less than 2.5 microns (PM _{2.5}) | ug/m ³ | CPCB Guidelines Vol.-I | 60 | 34.0 |
| Sulphur Dioxide (SO ₂) | ug/m ³ | IS 5182 (Part 2): 2001, BA 2000 & CPCB Guidelines Vol.-I | 80 | 10.8 |
| Nitrogen Dioxide (NO ₂) | ug/m ³ | IS 5182 (Part 4): 2004 & CPCB Guidelines Vol.-I | 80 | 26.2 |
| Carbon Monoxide (CO)* | mg/m ³ | IS 5182 (Part 10): 1999, BA 2002 | 4.0 | 0.42 |
| Lead (Pb) | ug/m ³ | CPCB Guidelines Vol.-I and AAS Method | 1.0 | N.D. |
| Nickel (Ni) | ng/m ³ | CPCB Guidelines Vol.-I and AAS Method | 20 | N.D. |
| Arsenic (As) | ng/m ³ | CPCB Guidelines Vol.-I and AAS Method | 6.0 | N.D. |
| Ozone (O ₃)* | ug/m ³ | CPCB Guidelines Vol.-I | 180 | 0.2 |
| Ammonia (NH ₃) | ug/m ³ | CPCB Guidelines Vol.-I | 400 | 16.4 |
| Benzene (C ₆ H ₆) | ug/m ³ | IS 5182 (Part 11): 2004 | 5.0 | N.D. |
| Benzotriazole pyrene | ng/m ³ | IS 5182 (Part 22): 2014 | 1.0 | N.D. |

REMARKS:- These Results are on the basis of 2 hour sampling, N.D.: Not Detected

Terms & conditions

- > The use of the report for publication, advertisement or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for analysis only.

| | | |
|---|---|---|
| 
PREPARED BY |  | For ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY |
|---|---|---|

End of the test report

AN ISO : 9001:2015 / ISO. 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



HDD-272 Phase I Near JP Chowk
Ring Road No. 2, Kankar Nagar, Raipur (C.G.) - 492009
Ph: 9771 4027777 | Email: ultimateenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

| | | | |
|---|------------------|--------------------------|-----------------|
| Name & Address Of The Customer
To,
Birla Corporation Limited
Unit-Sagmaria Limestone Mines
(A Unit of MP Birla Group)
PO : Birla Vikas, Satna-485005, M.P.
India | Report No. | UES/TH/28-23/08511 | |
| | Lab Ref No. | UES/28-23/ARQM/08128 | |
| | Date of Sampling | 14/12/2020 to 15/12/2020 | |
| | Date of Receipt | 27/12/2020 | |
| | Date of Report | 23/12/2020 | |
| | Date of Analysis | Start: 19/12/2020 | End: 23/12/2020 |

| SAMPLE DETAILS | |
|--------------------------|---|
| Monitoring for | Ambient Air Quality Monitoring |
| Sampling location | A-Quarry Dispensary (South) |
| Customer Ref. No. & Date | 4560446372, DATED: 14.12.2020 |
| Duration of Sampling | As per CPCB norms |
| Sample Collected by | Laboratory Chemist |
| Sampling Procedure | As Per Method Reference |
| Sample Quantity/Packing | Filter Paper (PM10): 1X1 No., Filter Paper (PM2.5): 1X1 No., SO2: 30mL No. PVC Bottle, NO2: 30mL No. PVC BOTTLE, Rubber Bladder: 1X1 No., CPM: CARCOAL Tube, OZONE: 10mL No. Brown PVC Bottle, NITROGEN DIOXIDE: 1X1 No. Brown PVC Bottle |

| TEST REPORT | | | | |
|--|-------------------|---|---------------|---------------------------------------|
| PARAMETER | UNIT | METHOD REFERENCE | CPCB STANDARD | RESULT
(Quarry Dispensary (South)) |
| Particulate Matter size less than 10 microns (PM ₁₀) | µg/m ³ | IS 5102 (Part 2): 2006 & CPCB Guidelines Vol.-I | 100 | 81.0 |
| Particulate Matter size less than 2.5 microns (PM _{2.5}) | µg/m ³ | CPCB Guidelines Vol.-I. | 50 | 48.0 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | IS 5102 (Part 2): 2006 & CPCB Guidelines Vol.-I | 80 | 8.2 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | IS 5102 (Part 2): 2006 & CPCB Guidelines Vol.-I | 80 | 26.4 |
| Carbon Monoxide (CO) * | mg/m ³ | IS 5102 (Part 10): 1999. SA 2002 | 4.0 | 0.36 |
| Lead (Pb) | µg/m ³ | CPCB Guidelines Vol-1 and AAS Method | 1.0 | N.D. |
| Nickel (Ni) | µg/m ³ | CPCB Guidelines Vol-1 and AAS Method | 20 | N.D. |
| Arsenic (As) | µg/m ³ | CPCB Guidelines Vol-1 and AAS Method | 6.0 | N.D. |
| Ozone (O ₃) * | µg/m ³ | CPCB Guidelines Vol-1 | 100 | 4.9 |
| Ambient (NH ₃) | µg/m ³ | CPCB Guidelines Vol-I | 400 | 9.6 |
| Benzene (C ₆ H ₆) | µg/m ³ | IS 5102 (Part 11): 2006 | 5.0 | N.D. |
| Benzo (a) Pyrene | ng/m ³ | IS 5102 (Part 12): 2014 | 1.0 | N.D. |

REMARKS: These Results are on the basis of 1 hour sampling, N.D.: Not Detected

Terms & conditions

- The use of the report for publication, arbitration or as legal evidence is forbidden.
- Test samples will be retained for 15 days after issue of the report unless otherwise agreed with customer.
- This is for information on the party has asked for analysis only.

| | | |
|------------------------|-----------------------------------|---------------------------------|
|
PREPARED BY |
End of the test report |
AUTHORIZED SIGNATORY |
|------------------------|-----------------------------------|---------------------------------|

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



POD-2/2 Phase I - Near JP Chowk
Ring Road No. 2, Khar Nagar, Bhubaneswar (O.G.) - 751009
Ph : 0771 - 4077777 | Email : ultimateenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

| | | | | | |
|----------------------------------|--|-----------------------------|------------------------------|--------------------|-----------------|
| Name & Address of The Customer | | REPORT NO | | UES/TH/20-21/03523 | |
| To, | | LAB. REF. NO. | | UES/20-21/W/03276 | |
| Birla Corporation Limited | | DATE OF SAMPLING | | 26/12/2020 | |
| Unit-Sagmala Limestone Mines | | DATE OF RECEIPT | | 17/12/2020 | |
| (A Unit of NPL Birla Group) | | DATE OF REPORT | | 23/12/2020 | |
| PO : Birla Vikas, Satna -485005, | | DATE OF ANALYSIS | | START: 12/12/2020 | END: 21/12/2020 |
| N.P. India | | | | | |
| SAMPLE DETAILS | | | | | |
| CUSTOMER SAMPLE ID | SAGMALA MINES ETP WATER | CUSTOMER REF. NO. & DATE | 454048372, DATED -01-11-2019 | | |
| SAMPLE TYPE | ETP WATER SAMPLE | SAMPLE CONDITION AT RECEIPT | OK | | |
| PACKING OF SAMPLE | JERRY CANE (3 LTR.)
GLASS BOTTLE (100 ml. *1) | SAMPLE COLLECTED BY | LABORATORY CHEMIST | | |
| OTHER DETAILS | SEALED | QUANTITY RECEIVED | APPROX. 3.3 LTR. | | |

| TEST REPORT | | | | | |
|-------------|--|------|---------------------------------|-----------------------|--------|
| SR. NO. | PARAMETER | UNIT | METHOD OF TEST | LIMITS AS PER COMMENT | RESULT |
| 1 | pH Value at 25.2°C | - | IS:3025:(Part-11):1983, RA 2012 | 5.5 To 9.0 | 7.53 |
| 2 | Total Suspended Solid | mg/L | IS:3025:(Part-17):1984, RA 2012 | 100 | 56.8 |
| 3 | Chemical Oxygen Demand | mg/L | IS:3025:(Part-56):2006, RA 2012 | 250 | 62.0 |
| 4 | Bio-chemical Oxygen Demand at 27°C for three day | mg/L | IS:3025:(Part-41):1993 RA 2014 | 30 | 10.4 |
| 5 | Oil & Grease | mg/L | IS:3025:(Part-39)-1986 | 10 | N.D. |
| 6 | Total dissolved solids | mg/L | IS:3025:(Part-16):1984 | -- | 420.5 |

Note: mg/Ltr.: milligram per liter. N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for (this test) only.

| | | |
|-----------------------------------|---|---|
|
ANALYST
PREPARED BY |
ULTIMATE ENVIRONMENTAL SOLUTIONS | For ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY |
|-----------------------------------|---|---|

End of the test report



Birla Corporation Limited

Unit: Satna Cement Works

P.O.: Birla Vikas, Satna - 485005

Madhya Pradesh

P: 07672 412000/01 F: 07672 257456

E: admin.scw@birlacorp.com

Regd. A/D

SCW/Q/VT/24/2020-21

15.07.2020

The Director General of Mines Safety
Dhanbad-826001 (Jharkhand)

Sub: Progress Chart of Quarter ending June'2020 and Programme Chart of Quarter ending September'2020 of Sagmania Limestone Mines Vocational Training Center as per Mines Vocational Training Rules,1966 (Revised training module).

Please find enclosed herewith the Progress Chart for quarter ending June'2020 and Programme Chart for quarter ending September'2020 of Sagmania Limestone Mines Vocational Training Center as per Mines Vocational Training Rules 1966.

Thanking you,

Yours faithfully,
For Satna Cement Works

(Kumar Rajan)
Mines Manager
Sagmania Limestone Mines

Encl: As above.

Cc: 1) Director of Mines Safety,
Plot No.1936 to 1949,
JDA Scheme No.5
Behind Joy Higher Secondary School
Vijay Nagar, Jabalpur-482002 (M.P.).

2) Quarry

MINES VOCATIONAL TRAINING RULES - 1965

SCHEDULE - XII
APPENDIX IN FORM - 7

Progress Chart of Training Centre for the Quarter Ending-June -2020

Name of Centre : Sagmania Limestone Mines
Vocational Training Centre
State/District in which it is situated : Madhya Pradesh, Satna
Name of Mine Catered : Sagmania Limestone Mines

| Sl. No. | Category of workers | Type of Course | Batch No. | Schedule | Date of commencement of course | Date of completion of course | Number of trainees | | Successful in the test | Remark |
|---------|--|----------------|-----------|----------------------------|--------------------------------|------------------------------|-----------------------|----------------------|------------------------|--------|
| | | | | | | | Enrolled in the batch | Completed the Course | | |
| 1 | Safe Practice -Blasting/ Explosive Carrier, Driver and General Majdoor | R | 512 | 4{(ix) & Self made modules | 19.05.20 | 30.05.20 | 14
2 | 14
2 | 14
1 | |
| 2 | Safe Operation & Maintenance - Driver, Fitter, Heber & General Mazdoor | R | 513 | 4{(ix) & Self made | 14.06.20 | 26.06.20 | 15
2 | 15
2 | 15
1 | |

Note: (1) For Session - Use M for morning, E for Evening

(2) Category of workers

(3) Type of Course - Use B for basic, S for Special, R for Refresher.

Signature of Training Officer
Date : 15.07.2020
Name in block letter : V.N. SINGH



MINES VOCATIONAL TRAINING RULES - 1966

SCHEDULE - XII

Notice of Programme of Training during Quarter Ending - September 2020

APPENDIX IN FORM - I

Name of Centre : Sagmania Limestone Mines
Vocational Training Centre
State/District in which it is situated : Madhya Pradesh, Satna
Name of Mine/Centred : Sagmania Limestone Mines
Approximate No. of Student in each Centre :

Code No. of Training Centre- Nil

| No. of week | Actual Date | | Session | Category of workers | Type of Course | Schedule | Batch No. |
|-------------|-------------|----------|---------|--|----------------|--------------------------|-----------|
| | From | To | | | | | |
| second | 12.08.20 | 24.08.20 | M&E | Safe Operation :- Dumper Driver, Shovel Operator
Dozer operator & General Majdoor | R | 4(k) & Self made modules | 514 |
| second | 14.09.20 | 26.09.20 | M&E | Safe Working Practice :- Filter, Welder
Attendant and General Majdoor | R | " | 515 |

Note: (1) For Session - Use M for morning, E for Evening.

(2) Category of workers

(3) Type of Course - Use B for basic, S for Special, R for Refresher.

Signature of Training Officer
Date : 15.07.2020
Name in block letter : V.N. SINGH



Programme Title
Date 24/7/20
Faculty
Venue

Participation Record

Training regarding Health & Safety Practices

M.H.V.N. Singh
V.T. Center

| SN | Code | Name | Designation | Dept | Signature |
|-----|-------|---------------|--------------|------|---------------|
| 1. | 59540 | दिनेश सिंह | Examiner | Misc | दिनेश सिंह |
| 2. | 59533 | शंकर मल्ल | Blender | " | शंकर मल्ल |
| 3. | 59535 | बलदेव | Helper | " | बलदेव |
| 4. | 68057 | सरमन सेन | Ex. " | " | सरमन सेन |
| 5. | 87412 | रामकपाल | Ex. " | " | रामकपाल |
| 6. | 94901 | पुष्पराज सिंह | Ex. " | " | पुष्पराज सिंह |
| 7. | 87410 | शंकर लाल खोल | " " | " | शंकर लाल खोल |
| 8. | 87400 | शंकर लाल खोल | " " | " | शंकर लाल खोल |
| 9. | 59537 | गोरे लाल | Blender | " | गोरे लाल |
| 10. | 87403 | मोहराज सिंह | Ex. Helper | " | मोहराज सिंह |
| 11. | 88607 | बबलू | " " | " | बबलू |
| 12. | 88618 | कमल मागाहि | Ex. Magdalen | " | कमल मागाहि |
| 13. | 88630 | राम देव | " " | " | राम देव |
| 14. | 68100 | रामसुजा | " " | " | रामसुजा |
| 15. | 67303 | नटयु लाल साव | " " | " | नटयु लाल साव |
| 16. | 67306 | रामविश्व | " " | " | रामविश्व |
| 17. | 94294 | अनूप कुमार | " " | " | अनूप कुमार |
| 18. | 88630 | राम देव | " " | " | राम देव |
| 19. | 87490 | सुरेश | " " | " | सुरेश |
| 20. | 87491 | दिनेश | " " | " | दिनेश |
| 21. | 94661 | राम देव | " " | " | राम देव |
| 22. | 94824 | सोनी राम | " " | " | सोनी राम |
| 23. | 88641 | रामविश्व | " " | " | रामविश्व |
| 24. | 94672 | अनूप कुमार | " " | " | अनूप कुमार |
| 25. | 94826 | राम देव | " " | " | राम देव |
| 26. | 87503 | राम | " " | " | राम |
| 27. | 94673 | विश्वनाथ | " " | " | विश्वनाथ |

IP
M.H.V.N. Singh

Participation Record

Programme Title
Date 25/7/20
Faculty
Venue

Training for proper Usage of Personal
Protective equipment
M.H.V.N. Singh
V.T. Center

| SN | Code | Name | Designation | Dept | Signature |
|-----|-------|-----------------|---------------|----------|-----------------|
| 1. | 59540 | विनोद सिंह | Ex. V. Driver | ministry | विनोद सिंह |
| 2. | 59533 | शंकर लाल | Blanket | " | शंकर लाल |
| 3. | 59511 | महेन्द्र कुमार | Blanket | " | महेन्द्र कुमार |
| 4. | 59535 | बलदेव | Ex. Helper | " | बलदेव |
| 5. | 68057 | सरमन सेन | " | " | सरमन सेन |
| 6. | 87412 | राम लाल | " | " | राम लाल |
| 7. | 94901 | पुष्पराज सिंह | " | " | पुष्पराज सिंह |
| 8. | 87410 | शंकर लाल कोन | " | " | शंकर लाल कोन |
| 9. | 87400 | शंकर लाल झाड़ा | " | " | शंकर लाल झाड़ा |
| 10. | 59537 | गिरि लाल | Blanket | " | गिरि लाल |
| 11. | 87403 | महेन्द्र सिंह | " Helper | " | महेन्द्र सिंह |
| 12. | 88607 | बलदेव | " Helper | " | बलदेव |
| 13. | 88646 | कमल माता सिंह | Gr. Manager | " | कमल माता सिंह |
| 14. | 88630 | राम देव | " | " | राम देव |
| 15. | 94294 | अनूप कुमार | " | " | अनूप कुमार |
| 16. | 67303 | नल्लु लाल साहिब | " | " | नल्लु लाल साहिब |
| 17. | 67306 | राम शिवा पांडे | " | " | राम शिवा पांडे |
| 18. | 68100 | शमसुजान विवा | " | " | शमसुजान विवा |
| 19. | 87490 | सुरेश वर्मा | " | " | सुरेश |
| 20. | 94661 | कमल वर्मा | " | " | कमल |
| 21. | 94672 | अजय रजक | " | " | अजय |
| 22. | 87401 | विश्वनाथ | " | " | विश्वनाथ |
| 23. | 86058 | सत्यनारायण कौर | " | " | सत्यनारायण |
| 24. | 94673 | विश्व प्रसाद | " | " | विश्व प्रसाद |
| 25. | 88635 | रजति | " | " | रजति |
| 26. | 87491 | विश्व सुनील | " | " | विश्व सुनील |
| 27. | 87503 | रजति | " | " | रजति |


M.H.V.N. Singh


V.T. Center

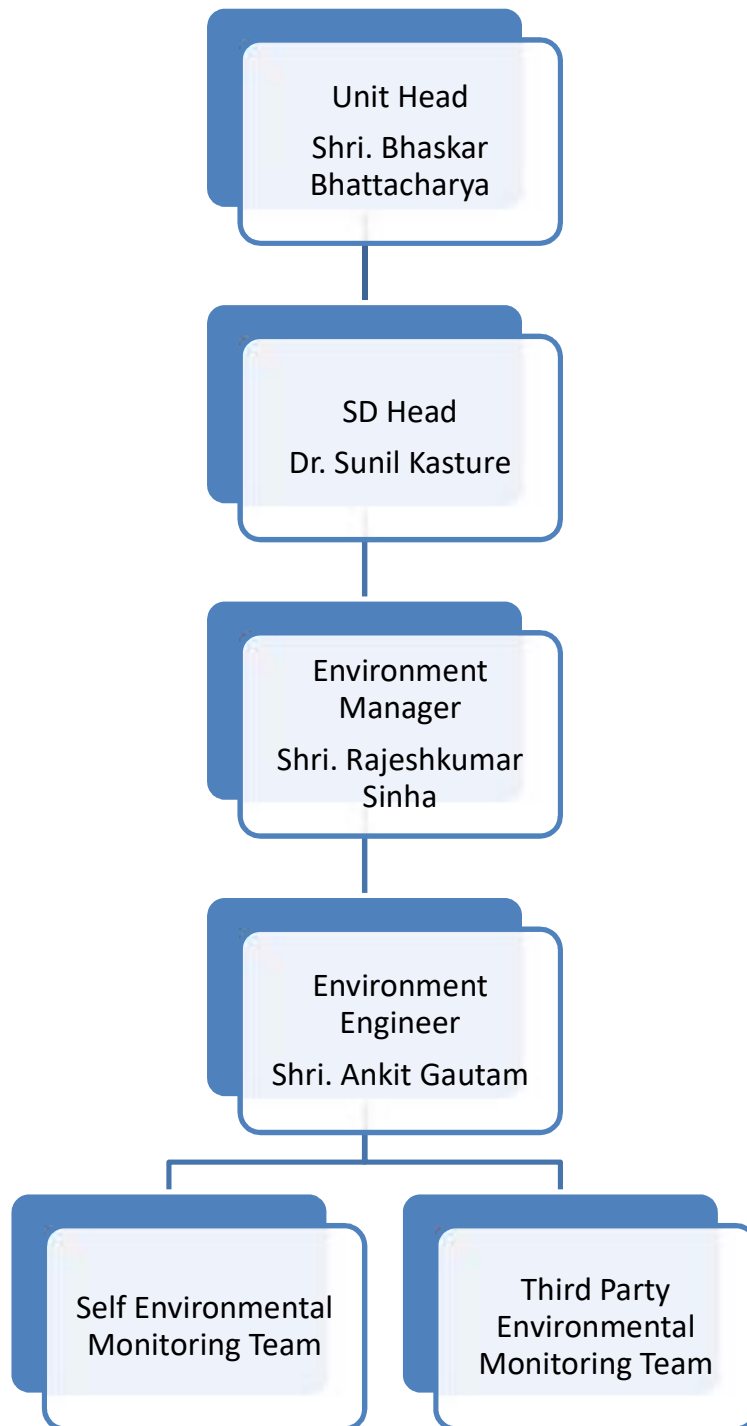
Annexure-22

Fully Equipped Air & Water Environmental Laboratory



Annexure: 23

Organization Structure: Environment Management Cell



Annexure-24**Details of Expenditure for Environmental protection at Mines**

| Sr.No. | Description | Amount
(In Lacs Rs) |
|-------------------|------------------------------------|--------------------------------|
| 1 | Dust suppression & Monitoring | 5.87 |
| 2 | Water sprinkling cost | 7.5 |
| 3 | Automatic Wiper cum dust collector | 4.59 |
| 4 | Fencing work | 3.39 |
| 5 | Reclamation cost | 70.30 |
| 6 | Plantation cost | 5.9 |
| Total cost | | 97.55 |

११ दैनिक भास्कर

सतना, मंगलवार 21 अगस्त 2007

आम सूचना

सर्व साधारण को सूचित किया जाता है कि बिरला कार्पोरेशन लिमिटेड की ग्राम बिरहुली, तहसील रघुराजनगर, जिला सतना म.प्र. स्थित बिरहुली लाईम स्टोन माइन्स को पर्यावरण एवं वन मंत्रालय, भारत सरकार, नई दिल्ली द्वारा अपने पत्र क्रमांक J-11015/122/2005/I-A. II (M) दिनांक 6 अगस्त 2007 द्वारा लाईम स्टोन के उत्खनन हेतु स्वीकृति प्रदान की गई है। बिरहुली लाईम स्टोन माइन्स का माईनिंग लीज एरिया 56.2 हे. है।

उपरोक्त पत्र की प्रति मध्यप्रदेश प्रदूषण नियंत्रण बोर्ड एवं पर्यावरण एवं वन मंत्रालय की वेबसाइट <http://envfor.inc.in> पर उपलब्ध है।