

29.12.2020

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 reports of Sagmania Limestone mines for the period from July, 2020 to December, 2020.

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

Dear Sir,

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

A Specific Conditions

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 Sagmania Limestone Mines was granted by Govt. of Madhya Pradesh on dated 19.10.56 and renewed vide letter no-F3-234/97/12/1 dated 13.10.10 and same was executed on 06.03.2013 for mining of limestone, Copy of grant order and lease deed in enclosed for reference as Annexure -1. It is subsequently renewed vide letter no. F-19-5/2015/12-1, Bhopal dated 12.03.2015 till 31.03.2030 Annexure -1A.
(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 is already implemented, Copy of NOC vide letter no. 4834/TS/MPPCB/2006 dated 24.05.2006 and detailed compliance status is enclosed as Annexure -2. NOC Compliance points: 1) The waste water generated at workshop is properly treated and segregated at ETP in different settling tanks. Clean water collected from ETP is used for plantation. 2) Dedicated water tanker with water sprinkling system is deployed at Mines for haul road. Crusher is equipped with four Bag Dust Collector, Pocket filters, Belt curtain at hopper with water fogging, water sprinkling at conveyor

		<p>belt etc. to avoid fugitive dust.</p> <p>3) Four ambient air quality monitoring stations established & Two CAAQMS installed to for continuous monitoring of AAQ data.</p> <p>4) Proper Catch drains and siltation ponds of appropriate size have been constructed for the working pit to arrest flow of silt and sediment.</p> <p>5) Till date about 2.0 Lacs plantation has been done within Mines Lease area. This year also we have planted 20,000 saplings within lease area.</p>
(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.	<p>Mining operation is restricted to above ground water table.</p> <p>Prior permission will be taken for mining below water table.</p>
(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 temporarily stacked with proper slope at earmarked site (s) only with adequate measures and should not be kept unutilized for a period more than 3years. The topsoil should be used for land reclamation and plantation.	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 65080 and 131248 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. The entire backfilled area of 166ha shall be reclaimed by plantation. The back filling should be carried out in such a manner that it is restored to the normal ground level. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	<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 & OC and RO, Bhopal. Last compliance submitted vide letter no SCW/Mines/18/2020-21 dated 13.07.2020</p>

	Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office Bhopal on six monthly basis.	
(vii)	The void left unfilled in an area of 565.78ha 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 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. 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.	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 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 251ha including a 7.5m wide green belt in the safety zone around the mining lease by planting the native species around ML area, reclaimed and	We have planted total 20,000 Nos of trees in 9 Hectare area in year 2019-20. Till date we have planted more than 2.0 lacs saplings in our Mines. Afforestation programme is being carried out with consultation of local Forest department, and as per their advice saplings are being

	<p>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.</p>	<p>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)</p>
(x)	<p>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.</p>	<p>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.</p>
(xi)	<p>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.</p>	<p>Mining operation started in 1959 and considering future water need and to recharge ground water table, three big Rain Water Harvesting Ponds were created to augment ground water resources in the mine out area. However, above activities were carried out in initial phases of mining operation, and hence the information on various initiatives for water conservations was mentioned and communicated in our application to CGWB for abstracting ground water. Copy attached as Annexure-4A for your reference. In addition to above 15 Nos of Ground Water Recharge Structures are constructed at Colony, nearby Schools and villages. Photographs of water reservoir attached as Annexure -4</p>
(xii)	<p>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 constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year - pre-monsoon (April-May), monsoon</p>	<p>Ground Water level & Quality monitoring is carried out in & around mining lease area in all the four seasons. The monitoring Report is carried out four times in a year-pre-monsoon (April-May), Monsoon (August), post monsoon (November) & winter (January). All collected data is also sent regularly to concerned authority. Reference Sheet is attached. Online Water level monitoring data by Piezometer is attached as Annexure-11.</p>

	(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.
(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 1959 and over a period of time, the mine cut 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>However, above activities were carried out in initial phase of mining operation, and hence the information on various initiatives for water conservations was mentioned and communicated in our application to CGWB for abstracting ground water.</p> <p>Copy attached as Annexure-4A for your reference</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> <ul style="list-style-type: none"> A) 15 Nos of Ground water recharge structures are constructed in Staff colony, SCW plant, R K Missionary School etc. B) 17 nos. are planned and work shall start shortly 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
(xiv)	<p>The project authorities shall obtain prior approval of the competent authority for drawal 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)	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. These should be properly maintained and operated.	Existing Crushers are equipped with Bag dust collectors, Pocket filters, De-dusting cyclones etc. which ensures adequate suppression of air borne dust in crusher and conveyor belt transfer points. There is also adequate arrangement of water spraying at crusher hopper and conveyor belts. Details are as follows: 1) Four nos. of BDC installed at crusher. 2) Water spraying system at Crusher hopper 3) PVC curtain provided at Crusher hopper. 4) Water sprinkling system provided at transfer points. Water sprinkling on haul road by a dedicated water tanker. Photograph of belt curtains at hopper and water sprinkling at Crusher hopper and Conveyor belt, BDC at belt transfer point are attached as Annexure-B.
(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 particle velocity likely to be generated) with each blast.	Vibration (Peak Particle Velocity-PPV) is being monitored at regular interval by new Instantel Micromate 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.	Complied. Consent to Operate from MPPCB is attached as Annexure-15.
(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	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

	vehicles should be covered with a tarpaulin and shall not be 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 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 Certified 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 Certified 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 the local forest and wildlife department.	Conservation measures for protection of flora & fauna in the core & buffer zone is taken up. A detailed plan is prepared for plantation program and accordingly plantation activities are being carried out. Till date 2.0 lacs saplings has been planted

		<p>which include majority of local species. Most of the plant saplings are from local Forest and Wild life Department.</p> <p>In addition to above Vermi compost is being used for plantation, in order to develop thick green belt in and around the mines area.</p> <p>Vermi composting is used and sprinkling system is also provided for plantation</p>
(iv)	<p>At least four ambient air quality monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO₂, 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, SO₂, 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.</p>	<p>Four ambient air quality monitoring stations are already established for monitoring of PM10, PM2.5, SO₂ and NO_x. 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.</p> <p>Third Party AAQ Report is enclosed as Annexure 19A</p>
(v)	<p>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.</p>	<p>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.</p> <p>Photographs on Fugitive Dust Emission enclosed as Annexure-18.</p>
(vi)	<p>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.</p>	<p>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</p> <p>Third Party noise monitoring reports are attached as Annexure-19</p>
(vii)	<p>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</p>	<p>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).</p>

	1993 or as amended from time to time. Oil and grease trap 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 by 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 undertaken 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 years 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 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	Environmental Expenses for the year 2019-20 is attached as Annexure-24.

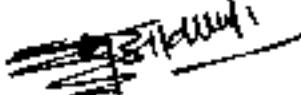
	Environment and Forests and its Regional Office, Bhopal	
(xiii)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/monitoring reports.	Complied
(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 We have already informed to DM , Satna & District Industry Center, Satna after getting EC letter Copy of letter is enclosed as Annexure 24A for reference
(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	Advertisement had been published during EC process. Paper cutting is attached as Annexure-25.

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.

We hope the above given information are in order.

With regards,

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


Sunil Kasture
Head - Sustainable Development

c.c.to:

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



मध्य प्रदेश MADHYA PRADESH

K 459300



File No.

AGREEMENT Dt.

To go with sanctioned Second Renewal Mining Lease for Limestone in Village Puraini, Barikals etc. Teh. Raghuraj Nagar, District Satna over an area of 852.500 Hect. for a Period Twenty years vide Govt. order No.-3-234/97/12/1 Bhoral dated 15.09.2011 in favour of M/s Birla Corporation Ltd., Satna Cement Works Satna (M.P.)

Agreement executed Between the Governor of M.P. through the Collector Satna (M.P.) and M/s Birla Corporation Ltd., Through Shri P.S. Marwah (President) M/s Birla Corporation Ltd. Satna Cement Works Satna (M.P.)

For : BIRLA CORPORATION LTD.
Unit : Satna Cement Works

[Signature]
(P. S. MARWAH)
President

[Signature]
सतना कैमिंटर्स
सतना-उत्तर प्रदेश



मध्य प्रदेश MADHYA PRADESH

K 459299

प्राचीन शिल्पकला

For: BIRLA CORPORATION LTD.
Unit : Salma Cement Works

P.S. MARWARI
President

FORM - K

MODEL FORM OF MINING LEASE

(See Rule 31)



When the
Lessee is an
individual



When the
Lessee are more
than one individual

When the Lessee is
a Registered Firm

When the Lessee is
a Registered
Company



कृतज्ञ (M.P.)

राजनीति कार्यालय
फैसला भवन (पु. ४१)

THIS INDENTURE made this 6th day of March 2013 between the Governor of M.P. through the Collector, Satna, 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.

and _____ (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

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

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 LIMITED, UNIT: SATNA CEMENT WORKS, SATNA, (Name of Company) a company registered under the COMPANY'S ACT 1956 under which incorporated) and having its registered office at 9/1 R.N. Mukherjee Road, Kolkata (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.1000/- as security & the sum of Rs.2500/- for meeting the preliminary expenses for a mining 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 rails situated lying and being in or under the lands which are referred to in

or: BIRLA CORPORATION LTD.
Unit : Satna Cement Works

P.S. MARWAH
President

उप सचिवालय (खणिज प्रशासन)
कालेपट्टा स्थार्यालय
खानी गाड़ा, कलारा (म.प.)



part I of the said schedule together with the liberties powers and privileges 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 19 day October, 1996 for the term of 20 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 WHEREOF 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 village PURAINI, BARIKALAN, BARAJ, NIMI, BHARJUNAKALAN, BATHIAKHURD, & NAINA Description of area or are 852.50 Hectare in (Pargana) in Reghurajnagar the Registration Dist. Satna, Thana Kolgawan bear Cadastral Survey Nos. KHASRA NO.SCHEDULE ENCLOSED containing an area of 8.52 Sq. K.M. or there about delineated on the plan here to annexed and thereon coloured RED and bounded as follows.

On the North by Part of village Bharjunakalan, Barikalan, Baraj and Nimi thereafter Bharjunakhurd and Poindha.

On the South by - Part of village Bathiakhurd, Naina, BCL Mining Lease area of Birhuli and Sakaria village.

On the East by - Village Birhuli, Phutaundha and Barkalan

end

On the West by - Part of village Bathiakhurd, Bharjunakalan and thereafter Umri.

hereinafter referred to as "the said lands"

Sl.No.	Name of the Village	Area in Acres	Area in Hectares
01.	Purauni	207.07	84.106
02.	Baraj	288.00	116.630
03.	Barikalan	268.10	108.540
04.	Nimri	268.10	108.540
05.	Naina	333.10	134.860
06.	Bathiakhurd	328.00	132.793
07.	Bharjunakalan	413.30	167.327
Total		2105.67	852.50

For : BIRLA CORPORATION LTD.
Unit : Satna Cement Works

Cement Works
P. S. Marwah
(P. S. MARWAH)
President

५) संचालक (समिक्षा प्रबन्ध),
कालेवलप्रकाशनालय
मेरिवार्ड, बंगलुरु (क.र.)

P A R T - II

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

To enter upon land
and search for win
work etc

To sink drive &
make pits shafts &
incline etc

To bring and use
machinery
equipment, etc

To make roads and
ways and use
existing roads and
ways

To get building and
road materials etc.

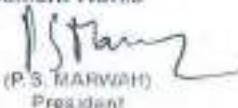
To use water from
streams etc

To use land for
staking heaping
depositing
purposes

Beneficiation and
conveying away of
production

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.
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]
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 brikkilns workshops store houses bungalows godowns sheds and other buildings and other works and conveniences of the like nature on or under the said lands.
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.
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 brick or tiles and to use such bricks or tiles but not to sell any such material bricks or tiles.
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.
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.
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

For: BIRLA CORPORATION LTD.
Unit : Satna Cement Works


(P.S. MARWAH)
President

कार्यालय
सतना (म.प.)

उपरिकृत (लिखित प्राप्ति)
प्रतीक्षा वापरित
सतना, मध्य प्रदेश

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 otherwise 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.

- 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 be 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.
Unit : Satna Cement Works

कृषि अधिकारी
फॉर्म- संग्रह (प- १०)

P. S. Marwah
(P. S. MARWAH)
President

पा. संग्रहालय (संग्रह प्रभु
विभाग कार्यालय
सनि शासा, झज्जा (म.र.)

use until the area shall cease to be occupied or used and shall as far 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.



Rent and
royalties to be free
from deductions etc

Mode of
computation of
royalty

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

Lessee to pay rents
& royalties taxes
etc

To maintain & keep
boundary mark in
good order

राजि अमिकरा
नियंत्रण (१० रु.)

P A R T - 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.
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.

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.

P A R T - 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.

For: BIRLA CORPORATION LTD.
Unit: Satna Cement Works

(P.S. MARWAH)
President

प्रधान सचिवालय (संसदीय प्रशासन)
फलोवर कार्यालय
खनि भारत, सतना (म.ग.)

To report discovery
of other Minerals

To keep records &
accounts
recording production
& employees etc



To maintain plans
etc.

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.
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 or 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:-

For: BIRLA CORPORATION LTD.
Unit : Satna Cement Works

P. S. MARWAH
President

उप सचिवालय (समिति प्रशासन)
वालोकन वार्षिकीय
खनि शाखा, बहुता (म.प्र.)

बांधन अधिनियम
विधा- छात्र (द० ४०)

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 weighting 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 pay
compensation for
injury or third parties

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.

Not to obstruct
working of other
minerals

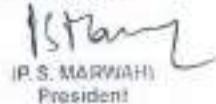
16. The lessee/lessees will exercise the liberties and powers here by granted in such a manner as to offer no unnecessary or reasonably avoidable obstruction or interruption to the development and working within the said land, of any minerals not included in this lease and shall at all times afford to 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.

Transfer of lease

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

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

For : BIRLA CORPORATION
Unit : Satna Cement Works


P.S. MARWAH
President

संदीपन मरवाह (खालील प्रतापान)
सतना कैम्बिट एंड पर्सनल
सतना, राजस्थान (प.र.)

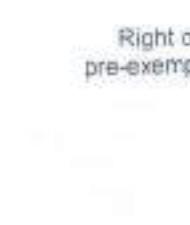
स्वामी अमिताधि
विष्णु दाम (प.र. #)

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
- 19 Whenever the security deposit of Rs.1000/- 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 he 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.1000/-.


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

- 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 disengaged 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 al respects for further working of the said mines and said minerals


Right of pre-emption

- 21 (a) The State Government shall from time to time and all times during the said term have the right (i) to 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 lime in the manner and at the place specified in the notice exercising the said right.
- (b) Should the right or 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 port 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.
Unit : Salina Cement Works


(P. S. MARWAH)
President

नियालक (राजीव गांधी),
संसदीय सचिव
लोकसभा (प.स.)

संसदीय सचिव
लोकसभा (प.स.)

PART - VIII

The covenants of the State Government

Leesee/Lessees
may hold enjoy
rights quietly.

Acquisition of lands
of third parties and
compensation
thereof

To Renew

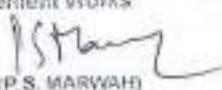
1. The lessee/lessees paying the rents and royalties hereby reserved and observing and performing all the covenants and agreements contained and on the part of the lease/lessees to be observed and performed shall and may quietly hold and enjoy the rights and premises hereby demised for an during the 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.
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 explanation 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 explanation 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 Twenty 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 explanation of the term hereby granted.

For : BIRLA CORPORATION LTD.
Unit : Satna Cement Works


(P.S. MARWAH)

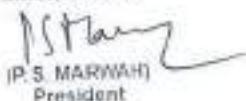
President

सत्ना अधिकारी
निम्न- वडा (५० एकड़ी)

प्रभाग (राजिय प्रभाग)
मोरठा वार्ड नं. १
सत्ना, उत्तर प्रदेश

- Penalty for repeated
breaches to
covenants**
- Failure to fulfill the
terms of lease due
to 'Force Majeure'**
- Lessee/Lessee 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 dues (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 fulfil any of the terms and conditions of this lease shall not give the central or 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 fulfilment 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 [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 held 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.
Unit : Satna Cement Works


P.S. MARWAH
President

उमा संचालक (एनिज प्रशासा,
कालेक्टर कार्यालय
खनि शाखा, सतना (प्र.)

लोग शिवाय
विष- घटा (५० रु.)

16

(3) 3

मध्यप्रदेश शासन
खटनीज साधन विभाग
मंत्रालय

:- आदेश :-

भोपाल, दिनांक - 13/10/10

क्रमांक - एफ 3-234/97/12/1 - यह कि जिला सतना के ग्राम पुरेनी, बारीकला, बटाज, नीमी, भुजुनाकला, बठियाखुर्द, नैना में 1000 हेक्टेयर क्षेत्र पर मेसर्स विरला जूट इण्डस्ट्रीज लिमिटेड (अब मेसर्स विरला कार्पोरेशन लिमिटेड) के नाम पर विभागीय आदेश क्रमांक एफ 3-183/76/12/6 दिनांक 22.04.77 द्वारा घूना पत्थर के खनिपट्टे का प्रथम नवकरण स्वीकृत था। प्रथम नवकरण पर खनिपट्टे की अवधि दिनांक 19.10.76 से 18.10.96 तक ये लिए स्वीकृत था। उपत स्वीकृत क्षेत्र 1000 हेक्टेयर में से 939.787 हेक्टेयर क्षेत्र पर मेसर्स विरला जूट इण्डस्ट्रीज लिमिटेड (अब मेसर्स विरला कार्पोरेशन लिमिटेड) द्वारा आगामी बीस वर्ष की अवधि के लिए द्वितीय नवकरण आवेदन पत्र दिनांक 13.10.95 दो प्रख्युल किया गया है। द्वितीय नवकरण में आवेदित क्षेत्र का यामवार विवरण निम्नानुसार है :-

क्र.	ग्राम का नाम	स्वीकृत क्षेत्र का विवरण (हेक्टेयर में)
01.	पुरेनी	83.980
02.	बारीकला	162.890
03.	बटाज	149.600
04.	नीमी	108.500
05.	भुजुनाकला	227.080
06.	बठियाखुर्द	132.750
07.	नैना	135.200
	बोग	1000.000

02. आवेदक कंपनी मेसर्स विरला जूट कंपनी लिमिटेड का नाम दिनांक 31.03.97 से विरला पॉवर लिमिटेड हो गया था। इसके पश्चात् दिनांक 27.10.97 से विरला पॉवर लिमिटेड से विरला कार्पोरेशन लिमिटेड हो गया है।

03. भारतीय लाल झूटो, नागपुर के पत्र क्रमांक एन-11011/17/आट.एम.एल./97/सी.सी.ओ.एम./1277 नागपुर, दिनांक 27.12.07 से द्वितीय नवकरण किये जाने की अनुशंसा की गई है। भारत सरकार, पर्यावरण एवं वन मंत्रालय के पत्र क्रमांक जे-11015/271/2006/आइ.ए.-2(एम). दिनांक 27.12.07 से इनवायरनेंटल फिल्डरेस भी पटाधारी को प्राप्त है।

04. द्वितीय नवकरण में आवेदित क्षेत्र 939.787 हेक्टेयर क्षेत्र में से 57.000 हेक्टेयर क्षेत्र (142 एकड़ क्षेत्र) वन भूमि था। अपर मुख्य सचिव, वन यी अध्यक्षता

छोड़ित समिति के सम्बन्ध में इस प्रकारण को दिनांक 26.12.09 को रखा गया था। पर समिति द्वारा सर्व सम्भव से यह निर्णय लिया गया था कि नवकरण प्रतियोगिता के भीतर जो 57.000 हेक्टेयर क्षेत्र बन भूमि है, उसे छोड़कर तथा 1,000 हेक्टेयर की सीमा से चारों ओर की 50.00 मीटर की दूरी का क्षेत्र छोड़फले शेष क्षेत्र उपलब्ध होता हो उस पर नवकरण की कार्यवाही करने में कोई आपात्कालीन घाव है। कलेक्टर, सतना से इस सम्बन्ध में प्राप्तियोदयन प्राप्त करने पर कलेक्टर द्वारा अनुसार 852.50 हेक्टेयर क्षेत्र उपलब्ध होना प्रतियोगिता किया है। यह उपलब्ध अवासों में है। उपलब्ध क्षेत्र का याम्यार विवरण निम्नानुसार है :-

क्र.	याम का नाम	रकमा एकड़ में
1.	पुरेनी	207.00
2.	बदाज	288.00
3.	बाटीकला	268.10
4.	नीमी	268.10
5.	नेना	333.10
6.	बठियाखुर्द	328.00
7.	भर्जुनाकला	413.30
	दोग	2105.67 एकड़
		852.50 हेक्टेयर

05. अतः राज्य शासन द्वारा पूर्ण विचारोपरांत खात्र एवं खनिज (विकास एवं विनियमन) अधिनियम 1957 थी धारा 6(1)(सी) के तहत शिथिलीकरण प्रदान करते हुए उक्त उपलब्ध क्षेत्र 852.50 हेक्टेयर (2105.67 एकड़) क्षेत्र पर चूना पत्थर खनिज के खनिपट्टे का द्वितीय नवकरण निम्नलिखित शर्तों एवं विवरण पर स्वीकृत जाता है।

- (1) जावेदक का नाम : मेसर्ट बिट्ला कार्पोरेशन लिमिटेड पा. आ. बिट्ला विकास, सतना म.प्र. - फ़िन - 485005।
- (2) स्वीकृत क्षेत्र का विवरण : जिला सतना के ग्राम पुरेनी, बदाज, बाटीकला, नीमी, नेना, बठियाखुर्द, भर्जुनाकला का कुल रकमा 852.50 हेक्टेयर (2105.67 एकड़) (संलग्न शेड्यूल अनुसार)
- (3) खनिज का नाम : चूना पत्थर
- (4) द्वितीय नवकरण में स्वीकृत अवधि : दिनांक 19.10.96 से 20 वर्ष (दोसा वर्ष)
- (5) रायल्टी/डैंडरेट आदि : नियमों में प्राप्यधानित दर से
- (6) खियोडोलाईट सर्व आदि : यादि आवश्यक हो तो किया जावे।

This document is a copy
of the original document.
ARVIND SHRIVAS, A.I.P.
Advocate.

- (7) अनुबंध निष्पादन के पूर्व यह सुनिश्चित कर लिया जावे कि आवेदक के ऊपर म.प्र. ग्रामीण अवसंरचना तथा सड़कों विकास नियम 2005 के तहत देय कर की राशि पूर्णतः जमा हो।
- (8) अनुबंध निष्पादन के पूर्व यह भी सुनिश्चित कर लिया जावे कि आवेदक के ऊपर खनिज राजस्व की राशि/ 1:1.6 परिवर्तन सूत्र के तहत निकाली गई अतिरिक्त राशि में से माननीय न्यायालय द्वारा उपर्युक्त राशि छोड़कर शेष राशि नव्य ब्याज सहित पूर्णतः जमा हो।
- (9) यह सुनिश्चित कर लिया जाये कि स्वीकृत क्षेत्र बन संरक्षण अधिनियम से 1980 के प्रावधानों से प्रभावित तो नहीं होता है।
- (10) भारत सरकार, वर्ष एवं पर्यावरण मंत्रालय की अधिसूचना दिनांक 14-9-2006 की अपेक्षा अनुसार कार्यवाही की जावे।
- (11) आवेदक ब्यारा स्वीकृत क्षेत्र पर ही रुक्नन कार्य किया जावे।
यदि आवेदक को उपरोक्त शर्त मान्य हो तो नियमानुसार जमानत राशि जमा कराई जाकर छः माह के अंदर अनुबंध का निष्पादन कराया जावे एवं निष्पादित अनुबंध की एक प्रति तत्काल इस विभाग को भेजी जावे।

मध्यप्रदेश के राज्यपाल के नाम से
तथा आवेदाननुसार

(एस. के. शिवानी)

अवृत्त सचिव,

म.प्र.शासन, खनिज साधन विभाग

पृ. क्रमीक - एफ 3-234/97/12/1

भोपाल, दिनांक - 13/10/10

प्रतिलिपि -

01. यालेयटर, जिला सतना म.प्र।
02. संघालक, भौमिकी तथा खनिकर्म मध्यप्रदेश, भोपाल।
03. डायरेक्टर जनरल ऑफ माइन्स एण्ड लेपटी, घनबाद (झारखण्ड)।
04. कन्फ्रोलर जनरल, इंडियन ल्यूटो ऑफ माइन्स, नागपुर।
05. क्षेत्रीय खान नियंत्रक, भारतीय खान ल्यूटो, जंबलपुर।
06. मेसर्स चिट्ठा कार्पोरेशन लिमिटेड, थो. आ. चिट्ठा विकास, सतना म.प्र. - 485005।

को ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अप्रेषित।

07. गार्ड फाईल।

अवृत्त सचिव
13/10/10

म.प्र.शासन, खनिज साधन विभाग



MADHYA PRADESH POLLUTION CONTROL BOARD

Parashuram Parivar, E-5, Agra Colony, BIJOPAL- 462 016

No. L 1834 /TS/MPPCB/2006

Date: 24 - S - 06 -

To,

M/s. Birla Corporation Ltd.,
[Unit: Sagmania Lime Stone Mines]
P.O. Birla Vikas,
Distt. Satna-485 005 [M. P.]

Sub: No Objection Certificate for obtaining Environmental Clearance from Govt. of India for proposed expansion of **Captive Lime Stone Mines** at Sagmania, P.O. Birla Vikas, Distt. SATNA {M. P.}.

Ref: Your application No. NIL dated:10/08/2005.

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. 318(E) dated: 10/04/97, No objection certificate is hereby issued for proposed expansion of **Captive Lime Stone** for Mining project from **3.3 MTPA to 4.9 MTPA [Three Point Three to Four Point Nine Million Tonnes per Annum]** at Sagmania Teh. Raghurajnagar, Distt. Satna [M. P.], subject to following conditions:

1. The Mine discharge water/domestic waste shall be properly treated and fully utilized in plantation/sprinkling or other useful purpose. No treated/untreated water shall be let out at any point of time outside of mine premises. Treated effluent quality shall meet the standards prescribed by M. P. Pollution Control Board in gazette Notification of M.P. dated: 25/03/88.
2. The construction of effluent treatment plant shall be taken up simultaneously with other civil work. Sewage treatment plant shall be installed for the residential colony. ETP should also be provided for workshop waste water. Mine shall make arrangement of suitable drains/pipe networks to ensure adequate flow, for full utilization of treated effluent insides of the premises.
3. Appropriate air pollution control equipments shall be installed at all points of emission sources and shall ensure that these are always kept running and in good working order all the time. Effective steps shall be taken to control fugitive emissions during excavation of mine, its handling/crushing/transportation etc.
4. Crushers at the mine handling plant should be operated with high efficiency bag filters, water sprinkling system should be provided to control fugitive emissions from crushing operations, haulage roads, transfer points etc.
5. Fugitive dust emission from all the sources should be controlled effectively and duly monitored. Water required for spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) points should be provided and properly maintained.



MADHYA PRADESH POLLUTION CONTROL BOARD
Paryavaran Parivar, E-5, Arera Colony, BIJOPAL- 462 016

6. Mine shall ensure that the concentration of particulate matter from point sources shall not exceed 150 Mg/Nm³
7. Ambient air quality at the boundary of the mine premises shall conform to the following limits:
- | | <u>24 Hours</u> | <u>Annual</u> | |
|---------------------------------------|---------------------------|---------------|-----------------------|
| a. Suspended Particulate Matter | 300 Microgram/Cubic Meter | 500 | Microgram/Cubic Meter |
| b. Sulphur Dioxide [SO ₂] | 80 | " | 120 |
| c. Nitrogen Oxides [NOx] | 80 | " | 120 |
| d. Carbon Monoxide [CO] | -- | 5000 | -- |
| e. RSPM | 180 | " | 250 |
8. Mines shall take effective steps to check the soil erosion from waste material dumping area and causing siltation problem in nearby nulla/river pond during rainy season. All the slopes of external dumps of over burden should be maintained at a maximum of 28 degrees.
9. The Mine shall take proper action to control the noise pollution. The ambient noise level shall not exceed the limit 75dB [A] during the day time and 70dB [A] during the night time.
10. Extensive tree plantation shall be done on both sides of transportation roads and around mining lease area. The tree plantation shall be carried out in phase manner preferably with local species.
11. Mining activity shall be carried out in such a way so that prime land area may not get degraded.
12. Mines shall obtain necessary permission from Central Ground Water Board before start of the Mining activity.
13. 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.
14. Vehicular emissions should be kept under control and regularly monitored for compliance of emission norms. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.
15. A separate Environmental Cell with suitably qualified technical personnel to carryout various functions should be set up under the control of senior executive who will report directly to head of the organization.
16. Digital processing of the entire lease area using remote sensing techniques should be done regularly once in three years for monitoring land use pattern and report submitted to Board.



MADHYA PRADESH POLLUTION CONTROL BOARD
Paryawaran Parishad, E.S. Arera Colony, BHOPAL - 462 016

- 46
17. Good house keeping practice shall be adopted by the Mine.
 18. The Board reserves the right to amend cancel any of the above conditions as a whole or in part as and when deemed necessary.

This "No Objection Certificate" is issued 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.

The mine shall be required to obtain following permissions from the Board prior to commencement of expansion:

- 46
- (a) Consent under the Water [Prevention & Control of Pollution] Act, 1974.
 - (b) Consent under the Air [Prevention & Control of Pollution] Act, 1981.
 - (c) Membership of Emergency Response Centre.
 - (d) Authorization under the provisions of the manufacture, storage & import of Hazardous Chemicals Rules, 1989 [as amended in 2003].

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

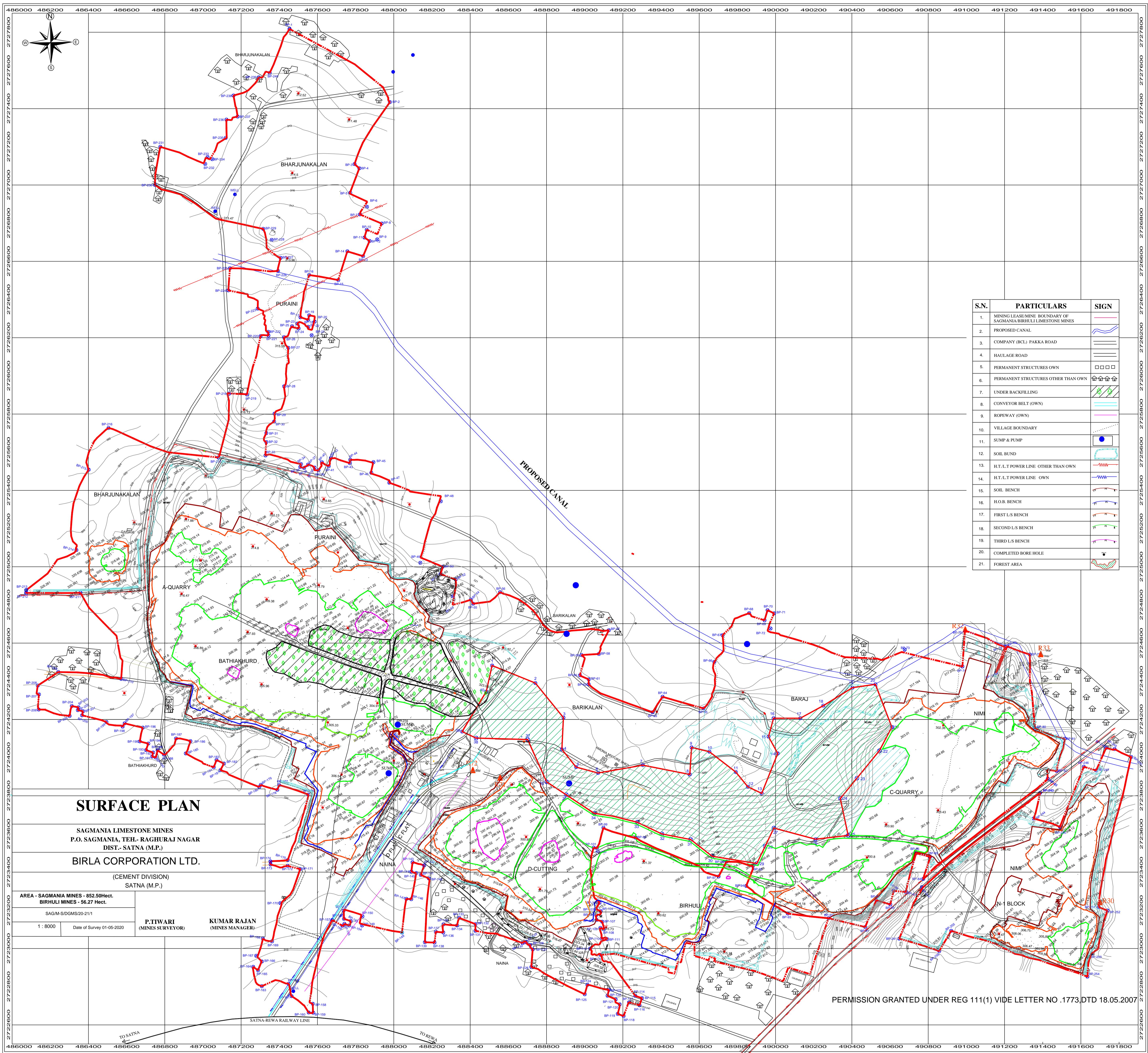
O/C (B. K. Singh)
Member Secretary

Encl No. U 835/TS/MPPCB/2006
Copy to:-

Date: 24-5-06-

1. Secretary, Govt. of India, MoEF, CGO Complex, Paryawaran Bhawan, CGO complex, Lodhi Road, New Delhi for information please.
2. Regional Officer, M.P. Pollution Control Board, Satna.
3. IT Section, M.P. Pollution Control Board, Bhopal.

O/C (B. K. Singh)
Member Secretary



Annexure- 4

Water Reservoir





BIRLA CORPORATION LIMITED
Unit : SATNA CEMENT WORKS, SATNA

SCW/Quarry/GW/17-18/47

Date 05.06.2017

To:

Regional Director
Central Ground Water Board
North Central Region
Block-1, 4th Floor, Paryavas Bhawan,
38 Area Hills, Jail Road
Bhopal - 462 011

Subject: Hard copy of online application number 21-4/485/MP/MIN/2017 for Ground water NOC of Sagmaina Lime stone Mine of Birla Corporation Limited

Reference: Online application number 21-4/485/MP/MIN/2017 date d 31.05.2017.

Sir,

With reference to above mentioned subject, we are enclosing here hard copy of online application number number 21-4/485/MP/MIN/2017 in duplicate with DD no 599424 dated 30.05.2017 of Rs. 1000/- for permission to use ground water at our brahuli lime stone mine.

If you need any further information / clarification in this regards we shall be pleased to provide the same.

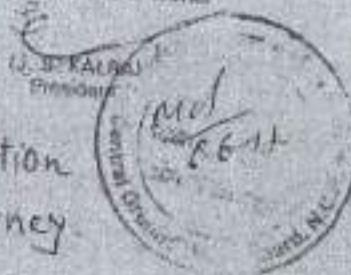
Thanking you,

Yours faithfully,

For Birla Corporation, Ltd.

Authorized Signatory

For BIRLA CORPORATION LTD.
Unit : Satna Cement Works



- Encl. 1. On Line application
2- Power of Attorney



INDIA'S LEADING BUSINESS GROUP
Birla Group of Companies includes Birla Group of Industries, Birla
Group of Services, Birla Group of Financial Institutions, Birla
Group of Infrastructure and Birla Group of Retail Businesses.





BIRLA CORPORATION LIMITED

Unit : SATNA CEMENT WORKS, SATNA

P.O. Birla Vikas, Satna - 485 005, Madhya Pradesh, Phone : 07672 - 412000 - 01
Fax : (07672) 257456 / 257576, E-mail : admin.scw@birlacorp.com

SCW/Quarry/GW/17-18/47

Date: 05.06.2017

To,
Regional Director
Central Ground Water Board
North Central Region
Block-1, 4th Floor, Paryavas Bhawan,
38 Area Hills, Jail Road
Bhopal – 462 011

Subject: Hard copy of online application number 21-4/485/MP/MIN/2017 for Ground water NOC of Sagmaina Lime stone Mine of Birla Corporation Limited.

Reference: Online application number 21-4/485/MP/MIN/2017 date d 31.05.2017.

Sir,

With reference to above mentioned subject, we are enclosing here hard copy of online application number number 21-4/485/MP/MIN/2017 in duplicate with DD no 599424 dated 30.05.2017 of Rs. 1000/- for permission to use ground water at our birahuli lime stone mine.

If you need any further information / clarification in this regards we shall be pleased to provide the same.

Thanking you,

Yours faithfully,

For Birla Corporation, Ltd.,

For BIRLA CORPORATION LTD.
Unit: Satna Cement Works

Authorized Signatory

(J.S. KALRA)
President



REGISTERED & PRINCIPAL OFFICE :

Birla Building, 9/1 R.N. Mulherjee Road, Kolkata 700 001

CIN-L01132WB1919PLC003304

Phone : - (91) (33) 30573700/30410800, Fax : - (91) (33) 22249247/7048



Central Ground Water Authority (CGWA)
 Ministry of Water Resources, River Development and Ganga Rejuvenation
 Applications for Issue of NOC to Abstract Ground Water (NOCAP)

**Application for Permission to Dewater Ground Water for Mining Industry
 (Application for New NOC)**

Application Number : 21-4/485/MP/MIN/2017

1. General Information:	
Water Quality:	Fresh Water
Whether Ground Water Utilization for:	Existing Industry
Date of Commencement Mine/Project:	30/10/2010
Date of Expansion:	
Application Type Category/ Type of Application	Limestone
2. Name of Mine/Project:	SAGMANIA LIMESTONE MINE
3. Location Details of the Mining Unit- (Attach Site, Approved Mining Plan, Toposketch of Surrounding 10km Radius Outside) (\$):	
Address Line 1 :	PO: BIRLA VIKAS
Address Line 2 :	
Address Line 3 :	
State:	MADHYA PRADESH
District:	SATNA
Sub-District:	SOHAWAL
Village/Town:	Naina
Area Type :	Non-Notified
Area Type Category :	Critical
4. Communication Address	
Address Line 1:	SAGMANIYA LIMESTONE MINES, PO: BIRLA VIKAS
Address Line 2:	
Address Line 3:	
State:	MADHYA PRADESH
District:	SATNA
Sub-District:	
Pincode:	485005
Phone Number with Area Code:	
Mobile Number:	91 9425888088
Fax Number:	
E-Mail:	maashardaenergetics@gmail.com
5. Salient Features of the Activity:	
We are operating Sagmania limestone mine for captive use of Birla Corporation Ltd. The method of mining is opencast full mechanized. lease area 852.50 hectare	
6. Land Use Details of the Surroundings (km 10 Radius – Outside): (\$)	
Land Use Details of the Surroundings(km 10 radius):	Out of the total land in study area the percentage of irrigated land is 40% unirrigated land is 19%, wasteland is 35%, forest land is 1% and land not fit for cultivation is 5%

Central Ground Water Authority (CGWA)
Ministry of Water Resources, River Development and Ganga Rejuvenation
Applications for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Permission to Dewater Ground Water for Mining Industry
(Application for New NOC)

Application Number : 21-4/485/MP/MIN/2017

7. Land Use Detail of Project Area				
Land Use Details	Existing (sq meter)	Proposed (sq meter)	Grand Total (sq meter)	
Green Belt Area	100000.00	324500.00	424500.00	
Open Land	8065200.00		8065200.00	
Road/ Paved Area	20300.00		20300.00	
Rooftop area of building/sheds	15000.00		15000.00	
Total	8200500.00		324500.00	8525000.00
8. Topography of the Area				
a) Regional	<p>The area as a whole is not much of promising type for agriculture, since the soil cover on massive rocky formation is rather thin. About half of the area is rocky with abundant exposures. Cultivated lands that yields mostly one crop like wheat, jowar, kodo and linseed etc. get dried up and hardened with a dry spell as there are no perennial source of water to facilitate irrigation in the area. The area is completely devoid of any forest. Even shrubs and bushes are not found in and around mining.</p>			
b) Project Area	<p>The general topography of the area is without any remarkable relief and forms a more or less flat terrain with a general dip of approximately 5deg. towards south. In the total mining lease area the lowest point is 310 metres, there is however, no perennial source of water within the mining lease area.</p>			
9. Drainage in the Area (River / Nala etc)				
a) Regional	<p>The area is more or less a flat terrain with a general dip of 5 towards south. Numerous small streamlets emerging from Northern part of area flows towards semarawali nadi and those emerging from southern parts of the area towards tomas river. There is however no perennial source of water within the mining lease area.</p>			
b) Project Area	<p>The area is more or less a flat terrain with a general dip of 5 towards south. Numerous small streamlets emerging from Northern part of area flows towards semarawali nadi and those emerging from southern parts of the area towards tomas river. There is however no perennial source of water within the mining lease area.</p>			
10. Source of Availability of Surface Water – Furnish Details (\$):				
Tamasand mines pit water				
11. Average Annual Rainfall in the Area (in mm):				
1142.00				
12. Townships/Villages within 10 km radius of the Project:				
Naina , Sagmania, Babupur, Baraj, Nimi, Kotra, Poundha, Batkhar, Baraha tola, Sakaiya, Barera, Khamaria, Ghunchai, Usaraha, Devipur, Pataura, Barmauri, Tikri, ragoli, Sohas, Pawai, Kuwan, Dagdahiya, Akauna, kuthra, Koindha, Majhgawan, Karsara, Jaitawar, Kahambha, Bhad, Gaura, Karhi, Bagha, Sigma, Bardadeh, Banuraha, Rampur chaurasi etc.				
13. Whether the Groundwater Table will be Intercepted by Activity :-				
				No
(a) At What Depth (m bgl)		Pre-monsoon		Post-monsoon

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Central Ground Water Authority (CGWA)
Ministry of Water Resources, River Development and Ganga Rejuvenation
Applications for Issue of NDC to Abstract Ground Water (NOCAP)

Application for Permission to Dewater Ground Water for Mining Industry
(Application for New NOC)

Application Number : 21-4/485/MP/MIN/2017

	Minimum (m bgl)									
	Maximum (m bgl)									
(b)	Maximum Depth Proposed to Dewater (m bgl)									
(c)	Groundwater Flow Direction (Attach Map)(\$)									
(d)	Any Other Information									
14.	Total Water Requirement for various Purpose to be Mentioned	(m ³ /day)	(m ³ /year)							
	Ground Water Required through Abstract Structure	290.00	105850.00							
	Ground Water Abstracted on account of Dewatering / Mining Seepage									
	Total Ground Water Withdrawal	290.00	105850.00							
15.	Details of De-Watering Structure									
(a)	De-Watering Existing Structure									
Number of Existing Structures:		0								
SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m ³ /Hour)	Operational Hours(Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA /If so Details Thereof	
(b)	De-Watering Requirement and Proposed Structure Detail									
Number of Proposed Structures:		0								
SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m ³ /Hour)	Operational Hours(Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof	
16.	Proposed Utilization of Pumped Water (Please Attach Details)(m ³ /year) (\$)									
(a)	Domestic Use in Mines				290.00	for domestic purpose				
(b)	Water Supply									
(c)	Agriculture									
(d)	Green Belt Development									
(e)	Suppression of Dust									
(f)	Recharge									
(g)	Any Other Item				Ground water withdrawal for domestic purpose only, other requirement fulfilled from mines pit water					
17.	Monitoring of Ground Water Regime (Attach Map(\$))									
(a)	Location Details of the Wells / Piezometers (Latitude, Longitude, Reduced Level)				Details area given in report					
(b)	Number of Wells / Piezometers				Two set of piezometers (deep and Shallow) will be construct at up and down stream.					

Central Ground Water Authority (CGWA)
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(c) Attach Details of GW Level of Observation Wells / Piezometers(At Least for One Year)(\$)	Details given in hydrological report								
(d) Number of Wells / Piezometers Proposed to Monitor	total 6 well 3 core zone and 3 in buffer zone - Details given in hydrological report.								
(e) Number of Piezometers Proposed to Monitor to Construct in Surroundings	Two set of piezometers (deep and Shallow) will be construct at up and down stream.								
(f) General Quality of GW in the Area & Surroundings (\$)	good water quality of the area. pH 6.7 to 7.5 chemical analysis report is attached with report.								
(g) Any Other Item	water quality of the area is good								

18. Proposed Pump / Pumping Groundwater Outside the Mine Pit for Domestic or Other Use (If so, give Details):

Number of Existing Structures:					1				
SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof
1	Borewell / 2010	80.00 / 6	25.00	40.00	2 / 365	Submersible Pump	5.00	No	No / -

Number of Proposed Structures:					2				
SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof
1	Borewell / 2017	100.00 / 6	25.00	40.00	3 / 365	Submersible Pump	5.00	No	No / -
2	Borewell / 2017	100.00 / 6	25.00	40.00	2 / 365	Submersible Pump	5.00	No	No / -

19. Groundwater Availability Report (Please Enclose a Comprehensive Report / Note on Groundwater Condition / Groundwater Quality in and Around 5Km of the Area) - (\$)

Water level in the area ranges from 22mts to 27mts. below ground level in the post monsoon period while during summer it ranges from 27 to 32m. seasonal fluctuation in the area is about 5m. details Ground water level and quality report is attached

20. Details of Rainwater Harvesting and Artificial Recharge Measures for Groundwater Recharge in the Area. If the Firm has Proposed to take up Rainwater Harvesting and Recharge outside the Premises, then provide NOC from the concern Authority / Agency where the Harvesting Measures are Proposed, if already implemented, Details may be furnished. (Attach Report on Comprehensive & Feasible Rainwater Harvesting / Recharge Proposal).- (\$)

Rain water harvesting plan is attached

Application for Permission to Dewater Ground Water for Mining Industry
(Application for New NOC)

Application Number : 21-4/485/MP/MIN/2017

21. Copy of Referral Letter seeking NOC from CGWA from Central Pollution Control Board / State Pollution Control Board / Bureau of Indian Standards / Ministry of Environment and Forests / Other Central / State Agencies shall be Annexed.- (\$)

Attached Referral Letter

S.No	Attached Referral Letter	Attachment Name	File Name
1	Central Pollution Control Board	Annexure - 13 NGT order	Annexure - 13 NGT Order.jpg

22. Have you Applied Earlier for the Same Purpose with CGWA / State Ground Water Authority:

If Yes, so Details thereof with Status:

MINING USE- Self Declaration

It is to Certify that the Data and Information Furnished Above are True to the Best of My Knowledge and Belief and I am Aware that if any Part of the Data / Information Submitted is Found to be False or Misleading at any Stage the Application will be Rejected Out Rightly.

1. Application Proforma is subject to modification from time to time.

2. Application should be submitted to Regional Office.

Regional Director, Central Ground Water Board North Central Region, Block-1, 4th Floor, Paryawas Bhawan, Area Hills, Jail Road, BHOPAL, MADHYA PRADESH, 462011

3. Incomplete Application will be Summarily Rejected.

Submitted Application will not be Processed till the Print Out of the Signed Complete Application is Submitted to Regional Office.

4. Applicant has to Submit Processing Fee of Rs. 1000.00/- (Rupees One Thousand Only) in the form of Demand Draft drawn in Favour of PAO, CGWB and Payable at Faridabad, Haryana.

Demand Draft Details:-

D.D. No.		Dated :	
Bank Name:		Amount:	

Note:- The Processing Fee is Non-Refundable. Applicant should ensure and Check Eligibility of Submission of Application and Required Documents before Submitting Online Application.

Attached Files:

1). Site Plan : (Refer 3)

S.No	Attachment Name	File Name
1	Annexure - 1 site plan	Annexure - 1 Site Plan.pdf

2). Approved Mining Plan : (Refer:3)

S.No	Attachment Name	File Name
1	Annexure - 2 Approved mining plan	Annexure - 2 Approved Mining Plan.pdf

3). Toposketch of Surroundings 10 km Radius Outside : (Refer: 3)

S.No	Attachment Name	File Name
1	Annexure - 3 Topo sketch	Annexure - 3 Toposketch Map.pdf

4). Document of Ownership of the land : (Refer-7)

Ministry of Water Resources, River Development and Ganga Rejuvenation
Applications for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Permission to Dewater Ground Water for Mining Industry
(Application for New NOC)

Application Number : 21-4/485/MP/MIN/2017

S.No	Attachment Name	File Name
1	Annexure - 4 ownership of land	Annexure - 4 Ownership of Land.pdf

5). Source of Availability of Surface Water : (Refer-10)

S.No	Attachment Name	File Name
1	Annexure - 5 Surface water availability	Annexure - 5 surface water availability.pdf

6). GroundWater flow Direction Map : (Refer: 13-C)

S.No	Attachment Name	File Name
1	Annexure - 6 Flow direction map	Annexure - 6 Ground Water Flow.pdf

7). Proposed Utilization of Pumped Water : (Refer: 16)

S.No	Attachment Name	File Name
1	Annexure - 7 Utilization of water	Annexure - 7 Utilization of pump water.pdf

8). Monitoring of Groundwater Regime Map : (Refer: 17)

S.No	Attachment Name	File Name
1	Annexure - 8 GW Regim map	Annexure - 8 GW Regime Map.pdf

9). GW Level of Observation Wells / Piezometer : (Refer: 17-C)

S.No	Attachment Name	File Name
1	Annexure - 9 GWL of observation well	Annexure - 9 GWL Observation.pdf

10). General Quality of Ground Water in the Area : (Refer: 17-f)

S.No	Attachment Name	File Name
1	Annexure - 10 GW Quality	Annexure - 10 GW Quality.pdf

11). Groundwater Availability Report : (Refer: 19)

No Attachment Found!

12). Details of Rainwater Harvesting and Artificial Recharge Measures : (Refer: 20)

S.No	Attachment Name	File Name
1	Annexure - 11 Harvesting plan	Annexure - 11 Water Harvesting Plan.pdf

13). Authorization :

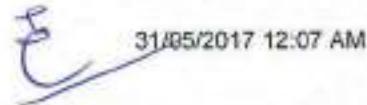
S.No	Attachment Name	File Name
1	Annexure -12 Authorization	Annexure -12.pdf

15). Extra Attachment :

No Attachment Found!

16). Scanned Mining Application :

No Attachment Found!



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Ministry of Water Resources, River Development and Ganga Rejuvenation
Applications for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Permission to Dewater Ground Water for Mining Industry
(Application for New NOC)

Application Number : 21-4/485/MP/MIN/2017

Date :

Name & Signature of the applicant
(With official seal)

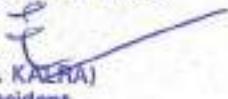
Place :

Associated User : birlacorporationsatna

For BIRLA CORPORATION LTD.
Unit: Satna Cement Works

Submitted By User : birlacorporationsatna

Submission Date : 31/05/2017


(J. S. KAERA)
President

* In case signed by any authorized signatory, the details of the signatory with the authorization shall be enclosed.

Annexure- 5

Siltation Pond



Annexure- 6

Photograph of Garland Drain



Annexure 7: Plantation Receipts

आमान्य सुविधा केन्द्र सीमोरा अंतर्गत संचालित नरसीरी से वर्ष 2020-21 के दौरान रखे तहानता समूह सोनीय द्रुता तैयार किये गये पीढ़ों को विस्ता कर्पोरेशन लिमिटेड वातन को प्रदाय का विवरण

क्र.	दिन विकल्प	गोप्य प्रजाति	पोली वेट वाइज	पीढ़ की गतिशीलता	मात्रा	दर प्रति पीढ़	राशि
1	07.07.2020	काला तिरस	15x25 cm	2 से 3 फिट	100	17.00	1700.00
		जामुन	20x30 cm	3 से 5 फिट	300	50.00	15000.00
		अंधला	15x25 cm	2 से 3 फिट	100	30.00	3000.00
		सफेद खीर	15x25 cm	3 से 5 फिट	100	17.00	1700.00
		योग			600		21400.00
2	09.07.2020	करंज	15x25 cm	3 से 4 फिट	500	17.00	8500.00
		पेल्टाकाम	20x30 cm	3 से 4 फिट	50	50.00	2500.00
		सफेद खीर	15x25 cm	3 से 5 फिट	400	17.00	6800.00
		जाम	20x30 cm	2 से 3 फिट	50	50.00	2500.00
		योग			1000		20300.00
3	18.07.2020	नारगेन	15x25 cm	3 फिट	1000	17.00	17000.00
		योग			1000		17000.00
4	22.07.2020	करंज	15x25 cm	3 से 4 फिट	300	17.00	5100.00
		पेल्टाकाम	15x25 cm	2 से 3 फिट	200	17.00	3400.00
		झाला तिरस	15x25 cm	2 से 3 फिट	200	17.00	3400.00
		काला तिरस	20x30 cm	3 से 4 फिट	100	50.00	5000.00
		पेल्टाकाम	20x30 cm	4 से 6 फिट	50	50.00	2500.00
		जापुलर	20x30 cm	5 से 7 फिट	150	50.00	7500.00
		योग			1000		26900.00
5	28.07.2020	अंडून	15x25 cm	2 से 3 फिट	500	10.00	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
		जाहेद तिरस	15x25 cm	2 से 3 फिट	50	17.00	850.00
		अमरुद	15x25 cm	3 से 5 फिट	50	30.00	1500.00
		सामीम	15x25 cm	3 फिट	100	17.00	1700.00
		योग			1000		30750.00
6	30.07.2020	पेल्टाकाम	15x25 cm	3 से 4 फिट	500	17.00	8500.00
		काला तिरस	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

Plantation at Mines



Annexure- 9

Water Sprinkling System



Annexure- 9

Bag Dust Collector with Pocket filters



Belt curtain at hopper



Fully Covered Crusher Housing with Bag Dust Collector



SAGMANIA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

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

Date	10	14	14	18	18	22	22	02	02	06	06	10	4 Hrly Max	24 Hourly Avg	PM10	PM2.5	
	SO ₂	NO ₂	Upwind3	Upwind3													
08.01.2020																	
Labour Colony (E)	14.67	22.76	17.14	27.87	16.3	25.91	15.7	25.45	17.9	28.02	18.28	29.27	18.26	29.27	16.64	28.55	
A-Quarry Pump house (W)	15.43	26.43	19.04	27.58	12	26.02	10.2	28.05	13.6	23.28	17.96	30.22	18.15	30.22	16.04	27.00	
ANFO Mixing Shelter (N)	15.32	29.58	15.00	25.00	13	23.86	16.8	31.14	17.7	26.01	15.33	27.78	17.73	31.14	15.17	26.49	
Quarry Dispensary (S)	17.50	28.35	15.00	24.94	17.9	28.02	16.7	23.82	17.7	24.81	16.36	26.3	17.87	28.35	16.87	26.37	
20.01.2020																	
Labour Colony (E)	16.17	25.45	14.29	20.91	17.5	27.44	13.3	21.14	14.4	23.86	17.3	24.62	17.50	28.62	15.50	24.57	
A-Quarry Pump house (W)	12.50	21.34	15.32	26.47	14.7	27.32	17	22.27	17.6	28.27	13.64	23.28	17.45	29.27	15.00	24.89	
ANFO Mixing Shelter (N)	17.18	25.61	13.75	24.39	14.4	29.27	17.3	29.61	18.9	28.73	15.75	30.49	18.89	30.49	16.20	27.95	
Quarry Dispensary(S)	14.04	26.78	13.04	23.22	15	27.44	15.8	29.58	16.7	25.45	16.9	24.1	16.91	30.60	15.25	27.10	

No. of Observations: 2
Arithmetic mean: 73.3488
Geometric mean: 73.30
STD. GEOM deviation: 2.92
Max. concentration: 78.57
No. of OBS 3040 @

- (Preceded by blank) Indicate missing data
- S Total number of 4 hourly observations in the month
- @30UG/CUM SO₂ & 40 UG/CUM NOx
- Y Total No. of SO₂ values 30 UG/CUM in month
- YY Total No. of NOx values of 40 UG/CUM in month
- ND₂ Jacob Hochheiser Sodium Arsenite Modified method using two impingers in series

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

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

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

R.S. SONI
(R. S. SONI)
Technical Head

SAGMANIA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

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

Date	10	14	14	18	18	22	22	02	02	06	06	10	4 Hourly Max	24 Hourly Avg	PM10 Updated	PM2.5 Updated														
	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2																
07.02.2020																														
Labour Colony (E)	17.31	27.04	15.00	24.39	14.7	22.76	16.3	25	NIL	22.65	15.35	NIL	17.31	27.04	15.72	24.37														
A-Quarry Pump house (W)	18.00	25.91	17.74	26.63	16.7	30.89	15.3	23.95	18.7	29.27	16.53	30.89	16.67	30.88	17.48	26.16														
ANFO Mixing Shelters (N)	16.74	23.82	16.25	22.67	13	22.27	16.4	31.6	18.3	20.68	15	24.39	16.26	31.60	15.94	24.27														
Quarry Dispensary (S)	12.50	27.44	16.00	29.27	14.4	27.04	NIL	33.26	19.6	NIL	13.87	31.9	19.57	33.26	15.26	29.78														
19.02.2020																														
Labour Colony (E)	17.14	28.57	15.00	27.44	14.4	25.45	13.3	27.64	13.0	23.88	19.5	28.93	19.53	28.93	15.40	26.98														
A-Quarry Pump house (W)	17.50	27.44	16.98	30.22	14.8	38.96	18	26.02	15.1	31.81	18.67	30.89	16.67	31.81	16.50	29.22														
ANFO Mixing Shelters (N)	NIL	31.36	16.25	25.91	17	30.22	15.3	29.58	14.7	28.27	17.33	27.64	17.33	31.38	16.11	29.00														
Quarry Dispensary (S)	15.00	26.61	16.74	25.52	14.6	29.57	19.6	26.63	17.3	30.89	15.3	24.91	19.57	30.89	16.43	27.69														
No. of Observations:	2																													
Arithmetic mean:	74.4766																													
Geometric mean:	74.43																													
STD. DEG&DEV.	3.01																													
Max. concentration:	16.23																													
No. of OBS 30440 (g)																														
1. (Presented by blank)- Indicate missing data																														
2. S. Total number of 4 hourly observations in the month																														
3. @30UG/CUM SO2 & 10 UG/CUM NOx																														
4. Y. Total No. of SO2 values 30 UG/CUM in month																														
5. Yr Total No. of NOx values of 40 UG/CUM in month																														
6. NO2 - Jacob Hochreiter Sodium Arsenite Modified method using two impingers in series:																														

For: BIRLA CORPORATION LIMITED

Unit: Satna Cement Works, Satna

(R.K. SINHA)

Manager (Env. Control)

For: BIRLA CORPORATION LIMITED

Unit: Satna Cement Works, Satna

(R.S. SONI)

Technical Head

SAGMANIA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

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

Date	10	11	14	15	16	18	21	22	02	02	06	08	10	4 Hour Max	24 Hourly Avg	PM10	PM2.5	
	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2		
06.03.2020																		
Labor Colony (F)	16.91	31.80	15.75	27.44	18.6	33.1	19.2	29.58	22.4	30.89	15.65	28.63	22.16	33.50	18.13	38.40	78.84	48.22
A-Quarry Pump house (W)	20.09	30.49	17.87	26.02	18.6	31.14	20.9	30.22	21.3	31.54	17.14	27.87	21.25	33.54	19.10	30.21	83.20	46.71
ANFO Mixing Shelter (N)	17.33	29.27	21.65	31.61	19.5	31.23	22.5	30.79	20.4	29.58	18.65	32.69	22.50	32.89	20.18	30.23	81.61	51.45
Quarry Dispensary (S)	18.74	33.60	20.87	32.17	23.3	32.01	19.1	31.5	20	29.64	17.5	28.4	23.25	32.77	19.58	30.50	84.08	49.15
18.03.2020																		
I, Phour Colony (E)	19.09	25.27	20.40	31.14	17.0	29.27	17.5	28.96	10.5	30.2	21.4	31.18	21.05	31.16	19.11	29.84	55.16	50.30
A-Quarry Pump house (W)	20.35	31.83	21.25	30.49	20	28.29	19.5	27.23	22.2	29.27	18.84	29.0	22.17	31.81	20.22	29.34	90.55	44.68
ANFO Mixing Shelter (N)	23.00	31.40	19.91	28.27	19.2	29.27	19.7	28.59	21.1	31.26	20.87	29.59	21.00	31.40	20.48	29.73	83.73	42.81
Quarry Dispensary (S)	19.57	35.63	21.70	31.14	20.8	29.27	19.2	32.69	22	30.23	20.3	29.62	22.00	33.23	20.48	30.76	79.37	52.06

No. of Observations 2
Arithmetic mean 82.0688
Geometric mean 82.04
STD. GEOM. deviation 2.33
Max. concentration 85.86
No. of OBS 30/40 @

- 1. (Preceded by blank) Indicate missing data
- 2. S Total number of 4 hourly observations in the month
- 3. @30UGCM SO2 to UGCM NO2
- 4. Y Total No. of SO2 values 30 UGCM in month
- 5. YY Total No. of Max values of 40 UGCM in month
- 6. NO2 - Inanth. doehneke's Sodium Arsenite Modified method using two impingers in series

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

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

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

(R. S. SONI)
Technical Head

SAGMANIA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

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

Date	10	14	14	18	14	22	22	02	02	16	16	16	16	4 Hourly Max.	24 Hourly Avg	PM10	PM2.5	
	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	Ug/m ³	Ug/m ³		
09.05.2020																		
Labour Colony (E)	16.96	28.63	17.50	30.49	18.6	29.93	22.2	25.45	21.7	29.58	19.53	28.93	22.17	30.49	19.40	28.84	87.70	52.24
A-Quarry Pump house (W)	21.43	32.75	22.98	31.14	20	27.44	20.8	27.64	21.9	28.63	19.09	26.61	22.98	32.75	21.04	29.04	89.11	50.89
ANFO Mixing Shelter (M)	21.25	32.01	20.45	29.93	20.9	30.22	22.5	26.47	23	31.84	21.65	25.45	22.96	32.01	21.61	29.32	84.91	54.67
Quarry Dispensary (S)	23.18	31.60	18.26	32.77	22.5	27.44	18.1	28.26	20	29.92	21.82	33.3	23.15	33.26	20.85	30.54	81.37	57.40
22.05.2020																		
Labour Colony (E)	21.25	30.49	20.87	28.63	23.8	27.44	19.2	26.47	21.3	30.89	19.1	26.27	23.75	30.89	20.91	21.70	90.34	56.37
A-Quarry Pump house (W)	18.67	32.52	20.43	28.02	22.5	33.54	22.7	34.15	21.8	27.93	20.3	31	22.67	34.10	21.02	31.59	93.13	55.18
ANFO Mixing Shelter (M)	21.13	29.39	20.00	27.44	23.2	33.26	23.8	30.49	23	29.54	20.93	30.03	23.75	33.29	22.00	29.17	88.44	51.41
Quarry Dispensary(S)	20.59	31.40	19.53	27.23	20.4	30.22	21.8	29.93	22.4	28.53	20.4	27.4	23.35	31.40	21.29	29.14	80	53.07

No. of Observations: 2

Arithmetic mean: 58.98*

Geometric mean: 58.94

STD. GEOM deviation: 16

Max. concentration: 93.83

No.of OBS 30/40 @

1. (Preceeded by blank) Indicate missing data

2. S Total number of 4 hourly observations in the month

3. @30UG/CUM SO2 & 40 UG/CUM NOx

4. Y Total No. of SO2 values 30 UG/CUM in month

5. YY Total No. of NOx values of 40 UG/CUM in month

6. NO₂ Jacob Hochheiser Sodium Arsenite Modified method using two impingers in series:

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

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

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

I.R.S. Soni
 (I. R. S. SONI)
 Technical Head

SAGMANA LIMESTONE MINES
UNIT OF BIRLA CORPORATION LIMITED
FORMAT - II

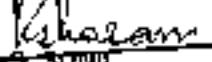
AIR QUALITY DATA OF SULPHUR DIOXIDE, OXIDES OF NITROGEN AND SUSPENDED PARTICULATE MATTER FOR THE MONTH OF June - 2020

Date	10	14	14	18	18	22	22	02	02	06	06	10	4 Hrly Max.	24 Hourly Avg.	Pm10	Pm2.5
	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	SO2	NO2	Ug/m3	Ug/m3
10.06.2020																
Labour Colony (E)	15.00	24.39	16.60	26.02	12.5	20.42	13.6	23.28	15.7	25.45	18.25	25.91	16.60	26.02	14.85	24.56
A-Quarry Pump house (W)	12.27	19.96	13.04	22.27	11.3	21.34	16.0	26.02	15	21.62	10.43	17.5	16.00	26.02	13.00	21.46
ANFO Mixing Shelter (W)	13.38	20.42	12.77	23.85	13.6	24.94	14.4	18.09	11.4	17.42	12.5	22.86	14.35	24.94	13.01	21.30
Quarry Dispensary (S)	16.02	23.36	13.95	24.84	10.3	25	15.1	20.36	13.6	24.30	14.29	20.9	16.25	25.00	14.76	23.14
23.06.2020																
Labour Colony (E)	12.50	21.34	13.04	23.88	10.9	19.98	12.9	19.16	13.3	24.08	17.9	26.47	17.87	26.47	13.42	22.53
A-Quarry Pump house (W)	15.32	24.91	17.60	25.91	10.7	27.04	14.7	21.14	15	24.08	14.29	19.2	17.50	27.04	15.41	23.76
ANFO Mixing Shelter (W)	13.64	23.26	16.09	25.84	12.0	22.78	18	23.78	15.1	25.45	13.33	24.39	16.00	25.64	14.70	24.29
Quarry Dispensary (S)	16.00	24.39	17.60	25.30	12.8	21.4	11.2	20.42	12	21.14	11.4	17.42	17.50	25.30	13.48	21.75
No. of Observations	2															
Arithmetic mean	66.2075															
Geometric mean:	66.14															
STD (GCM) deviation:	4.14															
Max. concentration:	72.34															
No.of OBS 30/40 (%)	100															
1. (Preceded by blank) Indicate missing data	:															
2. S Total number of 4 hourly observations in the month	:															
3. @30UG/CUM SO2 & 40 UG/CUM NOx	:															
4. T Total No. of SO2 values 30 UG/CUM in month	:															
5. TN Total No. of NOx values of 40 UG/CUM in month	:															
6. NO2 Jacob Hochheiser Sodium Arsenite Modified method using two impingers in series:	:															

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


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

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


 (P.S. SONI)
 Technical Head

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
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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
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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
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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
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2020-11-29 06:00:00	7.34	-13.27	27.4	978.6
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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
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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
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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 14:00:58 June 18, 2020
 Trigger Source: Geo. 0.700 mm/s, Mic: 100.00 dB(L)
 Range: Geo. 254.0 mm/s
 Record Time: 3.0 sec at 1024 sps
 Operator/Setup: Operator/factory MMB

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

Notes:
 Location:
 Client:
 User Name:
 General:

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

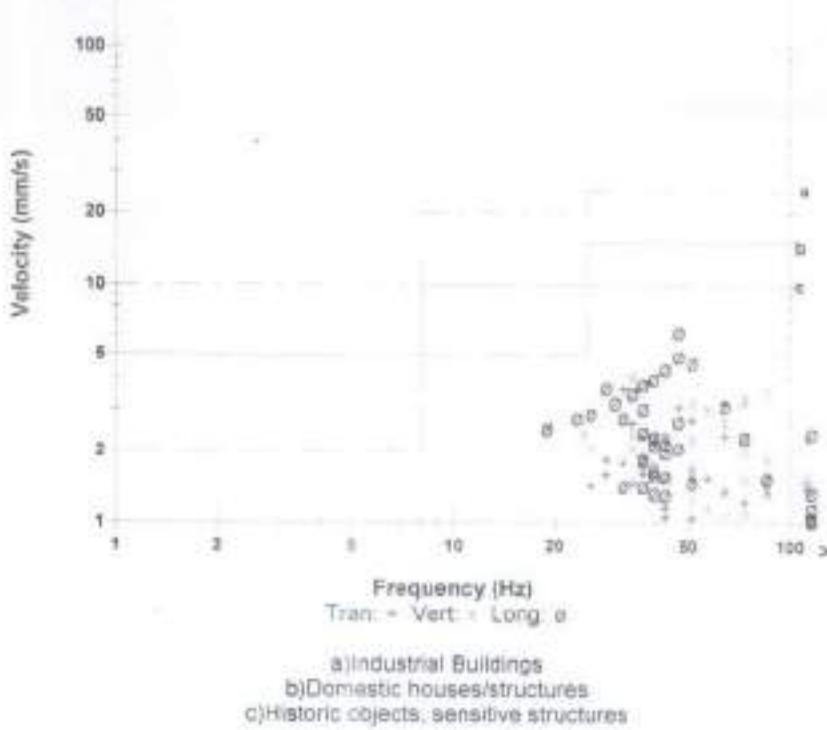
Microphone: Linear Weighting
 PSPL: 117.1 dB(L) 14.27 pa(L) at 0.570 sec
 ZC Freq: 39 Hz
 Channel Test: Check (Freq = 0.0 Hz Amp = 0 mv)

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

Peak Vector Sum: 6.484 mm/s at 0.231 sec.

DGMS India (A)

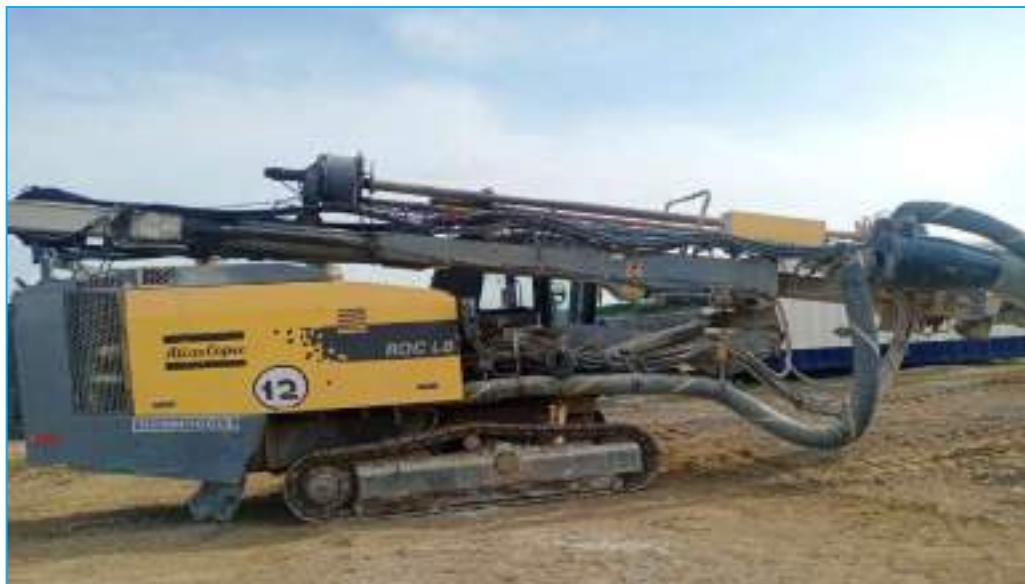
Permissible Ground Vibration



Triggered by: None

Annexure- 13

Drilling machine equipped with dust extraction system



AAQMS



Annexure- 14

Micromate - Vibration Monitoring Instrument





Consent Order

M.P. Pollution Control Board
E-5, Aera Colony
Parayanar Parivar, Bhopal - 462016 MP
Tele : 0755-2444171, Fax: 0755-2463742

REO-LARGE

CCA-Renewal

CONSENT NO: 77

PCB ID: 19448 |

Date: 27/02/2020

Consent No. CW-S1448

To,

The Occupier,
M/s. Birla Corporation LuluSagmania Lime Stone Mines,
939.78 HECT., BIRLA VIKASSATNA,
SAGMANIA, Chh : SAGMANIA,
Tel : 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,1981

Ref: Your Renewal of Consent Application Receipt No. 903391 Dt. 23/12/2019 and last communication received on DL.19/02/2019

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 :-

a. Location: 939.78 ha., Village: Sagmania, Tehsil Raghurajnagar, Dist. Satna (M.P.)

b. Mining Lease area: 939.78 ha

c. Product & Production Capacity:

Project	Qty / year
MINING OF LIME STONE	4.90 Million Ton Per year

Note:- For giving better to above industry full clean fresh cement 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:-

- 1. Conditions under Water Act
- 2. Conditions under Air Act
- 3. General conditions

CC to:-

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

C

v-Signed On 27/02/2020 19:26:02
 (Organic Authentication on AADHAR from UIDAI Server)
 TPAV#FQPYW3F467

R.S. KORI
 Member Secretary



Consent Order

M.P. Pollution Control Board
B-5, Arera Colony
Parivaran Parivar, Bhopal - 462 016 MP
Tele : 0755-2466191, Fax: 0755-2463742

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

1. The daily quantity of sewage at our fall of the unit shall not exceed 5.00 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	10 mg/l
Chloride	Not exceed	250 mg/l
Oil and grease	Not exceed	10 mg/l.

4. The sewage shall be treated up to prescribed Standards and reuse 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 report 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 online to the Board.



Consent Order

M.P. Pollution Control Board
B-5, Anera Colony
Parivar Parivar, Bhopal - 462016, MP
Tele : 0755-2466191, 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, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters 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 XGN in reference to compliance of consent conditions.

Additional Water condition:- If any:-

1) Mine shall provide toilets for labours 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 beneficiation purposes such as plantation, irrigation etc.



Consent Order

M.P. Pollution Control Board
B-5, Acre Colony
Parvatan Parivar, Bhopal - 462016, MP
Tele : 0755-2466141, Fax: 0755-2463742

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/926(E), dated: 16/11/09. Some of the parameters are as follows:

- a. Particulate Matter (less than 10 micron) - 100 $\mu\text{g}/\text{m}^3$ (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) - 60 $\mu\text{g}/\text{m}^3$
- 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. PP shall take effective steps for extensive tree plantation atleast in 03 rows 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 Condition :-

1. Mine management shall install CAAQMS stations at suitable locations to monitor ambient air quality in the leased area and in the vicinity. The mine management shall provide suitable connectivity of CAAQMS with Environment Surveillance Centre at the HQ of M.P. Pollution Control Board for monitoring and data transmission purpose.
2. Mine management shall construct and maintained pakka / cement concrete approach road from the mine site.
3. Fixed type of water sprinkle system shall be provided on haul road.
4. Dense plantation shall be carried out all around the quarry lease area.
5. Proper & regular maintenance of the vehicles shall be undertaken to suppress the frictional noise.
6. Transportation shall be done through covered vehicle.
7. Transportation should not be done through forest area.



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Parivaran Parivar, Bhopal - 462016, MP
Tele : 0755-2466191, Fax: 0755-2463742

GENERAL CONDITIONS:

1. The non-hazardous solid waste arising in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrap/ Plastic packing material wood, card board, gunny bags etc		Sale to authorized party/Ac. Per CPCB MinE Guide lines / Others.

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

- a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- b. 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.
- c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent; or.
- e. To sample at reasonable times any discharge or pollutants.

3. 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.

4. 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.

5. 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.

6. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

7. 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.

8. 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.

9. 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.

10. 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.

Environmental Conditions:

1. 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.
2. 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.
3. Mine management shall demarcate a barrier zone as no mining zone in the periphery of mining lease area and developed a green belt.
4. 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 siltation problem into nearby nullah/ river/ pond during the rainy season.

Consent No: A.M-51246



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Parvatanagar, Bhopal - 462016
Tele : 0755-2466191, Fax: 0755-2463742

5. Mine Management shall construct Garland drain of with stone pitching all around, and with sealing tank of appropriate size. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.
6. 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.
7. Mine management shall provide artificial recharge measures, rain water harvesting system.
8. Mine management shall provide fencing all around the lease area to prevent the accident hazard.
9. 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.
10. Controlled blasting should be preceded 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 Act/Rules/Directories/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 IID 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 is required under the Water (Prevention & Control of Pollution) Act,1974 , The Air (Prevention & Control of Pollution) Act,1981 and the Authorization under Hazardous and Other Waste (Management & Transboundary Movement) Rule, 2016 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 19:26:12
(Organic Authentication on AADHAR from UIDAI Server)
TPAV # FQPYW3F46T

R.S. KORI
Member Secretary

Consent No: AM-51238

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 PUCC 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	5/12/2021	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	

TOTAL :

45



Birla Corporation Limited
Unit: Satna Cement Works
P.O. Birla Vihar, Satna - 485005
Madhya Pradesh
P: 07672 412000/01 F: 07672 257456
E : admin.scw@birlacorp.com

BCL/SCW/Mines/2020-21/17

Date: 10.07.2020

To,

Director,
Ministry of Environment and Forest
New Delhi

Sub:- Submission of Digital Processing of Sagmania Mining Lease.

Ref: Environment Clearance no. J-11015/271/2006-IA (M) for Sagmania Mining Lease .

Dear Sir,

With reference to above subject matter and condition laid down in the Environment Clearance, please find herewith the Digital Processing of Sagmania Mining lease for monitoring land use pattern based on satellite imaginary.

Kindly acknowledge the receipt of the same.

Thanking You,
Yours faithfully,

For, Birla Corporation Limited
(Unit: Satna Cement Works)

[Signature] 10.07.2020
AVP-Mines
Sagmania Limestone Mines

Encl: 1. Digital Processing Map Sagmania Mining Lease

Cc: Regional Office, MoEF – E-5, Arera colony, Link Road Bhopal (M.P.)

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-5, Anera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2466180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ermp.mpgov.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	Query_Station_2-CO(ug/m ³)	Query_Station_2-HC(ug/m ³)	Query_Station_2-PM2.5(ug/m ³)	Query_Station_2-PM10(ug/m ³)	Query_Station_2-SO2(ug/m ³)
Prescribed Standards	0 - 4	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.48	28.81	30.81	97.62	11.92
Minimum Data	0.25	2.59	6.71	18.58	3.17
Data Availability %	88.84%	74.32%	88.84%	88.84%	88.81%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-5, Anera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2466180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ermp.mpgov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name :
R.O. :

Satna
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period : Aug, 2020

Description	Query_Station_2-CO(ug/m ³)	Query_Station_2-HC(ug/m ³)	Query_Station_2-PM2.5(ug/m ³)	Query_Station_2-PM10(ug/m ³)	Query_Station_2-SO2(ug/m ³)
Prescribed Standards	0 - 4	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.12	21.35	33.88	95.69	17.59
Minimum Data	0.11	3.35	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 Parivar, E-5, Anera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2466180, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ermp.mpgov.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	Query_Station_2-CO(ug/m ³)	Query_Station_2-HC(ug/m ³)	Query_Station_2-PM2.5(ug/m ³)	Query_Station_2-PM10(ug/m ³)	Query_Station_2-SO2(ug/m ³)
Prescribed Standards	0 - 4	0 - 80	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	35.72	5.48
Data Availability %	89.55%	89.66%	89.66%	81.38%	88.66%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-5, Aera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmpcbs@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period : Oct,2020

Description	Quarry_Station_2-CO($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-NOx($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-PM2.5($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-PM10($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-SO2($\mu\text{gm}/\text{m}^3$)
Prescribed Standards	0 - 4	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.69	23.70	52.58	95.29	28.36
Minimum Data	0.34	1.34	23.27	47.37	7.92
Data Availability %	90.00%	92.00%	90.00%	90.00%	90.00%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-5, Aera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmpcbs@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period : Nov,2020

Description	Quarry_Station_2-CO($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-NOx($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-PM2.5($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-PM10($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-SO2($\mu\text{gm}/\text{m}^3$)
Prescribed Standards	0 - 4	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.88	31.36	49.60	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%	91.10%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-5, Aera Colony, Bhopal - 462016 (M.P.)

Ph : 0755-2469180, Fax : 0755-2463742, E-mail : ercmpcbs@nic.in, Web : www.ercmp.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra
15 min

Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period : Dec,2020

Description	Quarry_Station_2-CO($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-NOx($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-PM2.5($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-PM10($\mu\text{gm}/\text{m}^3$)	Quarry_Station_2-SO2($\mu\text{gm}/\text{m}^3$)
Prescribed Standards	0 - 4	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.63	67.27	54.94	83.24	23.71
Minimum Data	0.13	2.05	23.01	12.86	2.81
Data Availability %	96.43%	96.43%	96.43%	93.87%	96.43%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-5, Aeria Colony, Bhopal - 462016 (M.P.)

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

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra:
Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period : July, 2020

Description	Quarry_Station_1-CO(High)	Quarry_Station_1-NOx(g/m3)	Quarry_Station_1-PM2.5(g/m3)	Quarry_Station_1-PM10(g/m3)	Quarry_Station_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	1.12	37.98	37.50	86.73	13.43
Minimum Data	0.13	3.95	4.62	18.83	3.4
Data Availability %	99.37%	90.33%	89.96%	99.37%	90.33%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-5, Aeria Colony, Bhopal - 462016 (M.P.)

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

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra:
Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period : August, 2020

Description	Quarry_Station_1-CO(High)	Quarry_Station_1-NOx(g/m3)	Quarry_Station_1-PM2.5(g/m3)	Quarry_Station_1-PM10(g/m3)	Quarry_Station_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	1.07	23.10	17.05	92.33	26.32
Minimum Data	0.25	11.22	6.49	12.91	11.68
Data Availability %	99.60%	96.67%	96.67%	96.67%	90.23%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-5, Aeria Colony, Bhopal - 462016 (M.P.)

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

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra:
Birla Corporation Limited, Unit- Sagmania Limestone Mines

Period : Sept, 2020

Description	Quarry_Station_1-CO(High)	Quarry_Station_1-NOx(g/m3)	Quarry_Station_1-PM2.5(g/m3)	Quarry_Station_1-PM10(g/m3)	Quarry_Station_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.63	42.78	26.29	90.61	17.88
Minimum Data	0.20	11.43	8.13	11.04	5.2
Data Availability %	90.25%	92.30%	87.96%	89.78%	91.47%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-6, Aera Colony, Bhopal - 462018 (M.P.)

Ph : 0755-2460100, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ermpcbo.mpcb.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra
Birla Corporation Limited, Unit- Sagmania Limestone Mines Period : 15 min

Oct,2020

Description	Quarry_Station_1-CO(m/m3)	Quarry_Station_1- NOx(m/m3)	Quarry_Station_1- PM2.5(m/m3)	Quarry_Station_1- PM10(m/m3)	Quarry_Station_1- SO2(m/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 100	0 - 80
Maximum Data	0.66	22.06	36.87	93.60	13.33
Minimum Data	0.38	14.09	28.97	48.15	2.5
Data Availability %	87.42%	90.00%	88.00%	91.00%	90.00%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-6, Aera Colony, Bhopal - 462018 (M.P.)

Ph : 0755-2460100, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ermpcbo.mpcb.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra
Birla Corporation Limited, Unit- Sagmania Limestone Mines Period : 15 min

Nov,2020

Description	Quarry_Station_1-CO(m/m3)	Quarry_Station_1- NOx(m/m3)	Quarry_Station_1- PM2.5(m/m3)	Quarry_Station_1- PM10(m/m3)	Quarry_Station_1- SO2(m/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 100	0 - 80
Maximum Data	0.85	24.48	56.00	94.71	28.95
Minimum Data	0.17	17.45	21.57	47.89	12.40
Data Availability %	82.78%	92.50%	82.78%	82.78%	82.78%

Madhya Pradesh Pollution Control Board

Environmental Surveillance Center

Paryavaran Parivar, E-6, Aera Colony, Bhopal - 462018 (M.P.)

Ph : 0755-2460100, Fax : 0755-2463742, E-mail : ercmppcb@nic.in, Web : www.ermpcbo.mpcb.gov.in

Real Time Data Acquisition And Monitoring

Average Report

Industry Name : R.O. : Satra
Birla Corporation Limited, Unit- Sagmania Limestone Mines Period : 15 min

Dec,2020

Description	Quarry_Station_1-CO(m/m3)	Quarry_Station_1- NOx(m/m3)	Quarry_Station_1- PM2.5(m/m3)	Quarry_Station_1- PM10(m/m3)	Quarry_Station_1- SO2(m/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 100	0 - 80
Maximum Data	0.85	31.27	43.98	93.20	20.17
Minimum Data	0.38	11.50	21.95	41.90	3.7
Data Availability %	97.00%	85.71%	97.00%	85.71%	97.00%



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/20-21/03522
	Lab Ref No. UES/20-21/ST/03169
	Date Of Sampling 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	Stack Emission Monitoring
Customer Ref. No. & Date	4560448372, DATED : 04.12.2020
Sampling Location	CRUSHER BDC STACK (800 TPH)
Sample Collected By	Laboratory Chemist
Sampling Procedure	IS 11255 Part 1:1985 Reaffirmed 2009; Part 3:2008,
Sample Quantity/Packing	Thimble: 1 X 1 No.,

STACK EMISSION MONITORING REPORT

Stack details

Stack Identity	800 TPH Crusher BDC			
Material Of Construction	MS			
Stack height above ground level (mtr.)	38.0			
Stack diameter (mtr.)	1.2			
Stack Shape At Top	CIRCULAR			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS 11255 (Part 3):2008	-	40.0
Flue Gas Velocity	m/s	IS 11255 (Part 3):2008	-	8.7
Total Gas Quantity at STP	m³/h	IS 11255 (Part 3):2008	-	33707.4
Total Gas Quantity at NTP	Nm³/h	IS 11255 (Part 3):2008	-	29559.4
Total Particulate Matter (TPM)	mg/Nm³	IS 11255 (Part 1):1985, RA 2003	30	16.2

REMARKS:

Terms & conditions

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

PREPARED BY

Tukaram
23/12/2020



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Termul Dutt
23/12/2020

AUTHORIZED SIGNATORY

-----End of the test report.....



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

<i>Name & Address Of The Customer</i>		Report No.	UES/TR/20-21/03523	
To, Birla Corporation Limited Unit-Sagmania Limestone Mines (A Unit of MP Birla Group) PO : Birla Vikas, Satna -485005, M.P. India		Lab Ref No.	UES/20-21/TR/03170	
		Date Of Sampling	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	Stack Emission Monitoring			
Customer Ref. No. & Date	4560448372, DATED : 04.12.2020			
Sampling Location	CRUSHER BDC STACK (1200 TPH)			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,:1985 Reaffirmed 2009; Part 3:2008,			
Sample Quantity/Packing	Thimble: 1 X 1 No.,			

STACK EMISSION MONITORING REPORT

Stack details

Stack Identity	1200 TPH Crusher BDC			
Material Of Construction	MS			
Stack height above ground level (mtr.)	40.0			
Stack diameter (mtr.)	1.8			
Stack Shape At Top	CIRCULAR			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS 11255 (Part 3):2008	-	48.0
Flue Gas Velocity	M/s	IS 11255 (Part 3):2008	-	10.5
Total Gas Quantity at STP	m ³ /h	IS 11255 (Part 3):2008	-	89251.9
Total Gas Quantity at NTP	Nm ³ /h	IS 11255 (Part 3):2008	-	78539.6
Total Particulate Matter (TEM)	mg/Nm ³	IS 11255 (Part 1):1985, RA 2003	30	19.4

REMARKS:

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
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For ULTIMATE ENVIROLYTICAL SOLUTIONS

Thakur
PREPARED BY
23/12/2020

J. J. Muller
AUTHORIZED SIGNATORY
23/12/2020

End of the test report.....



HDD 272, Phase III - Near J.P Chowk
Ring Road No. 2, Kabir Nagar, Raigarh (C.G.) - 492009
Ph: +91 771 4027777 Email: ultimateenv@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under E.P. act 1986

Name & Address of the Customer		REPORT NO	UES/TR/20-21/03515
To, Birla Corporation Limited Unit-Segments Limestone Mines (A Unit of MP Birla Group) PO : Birla Vilas, Satna -485005, M.P. India		LAB REF NO	UES/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	4580446372, DATED 10/12/2020		
SAMPLING LOCATION	SAGARIAH 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		
A-QUARRY PUMP HOUSE(WEST)	dB(A)	66.8	52.1	75	70
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

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PREPARED BY 		For ULTIMATE ENVIRONMENTAL SOLUTIONS
AUTHORIZED SIGNATORY		

End of the test report

Address Of The Customer To, Birla Corporation Limited Unit-Segmania Limestone Mines (A Unit of MP Birla Group) PO : Birla Vikas, Satna -485005, M.P. India	REPORT NO	UES/TR/20-21/03517
	UAN REG NO	UES/20-21/N/03164
	DATE OF REPORT	23/12/2020
	DATE OF SAMPLING	15/12/2020 to 16/12/2020

SAMPLE DETAILS

MONITORING FOR	WORK ZONE NOISE LEVEL MONITORING
CUSTOMER RIF. NO. & DATE	458448372, DATED 04.12.2020
SAMPLING LOCATION	SAGARNAWA 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	89.0
	OUTSIDE	82.8
NEAR 300 TPH	INSIDE	84.6
	OUTSIDE	80.4
NEAR DUMPER GARAGE	INSIDE	76.3
	OUTSIDE	72.8
	INSIDE	77.1
NEAR MECHANICAL WORKSHOP	OUTSIDE	77.5
	OUTSIDE	79.7
NEAR MINES OFFICE	INSIDE	80.4
	OUTSIDE	82.9
NEAR ROAD HOPPER (1200 TPH CRUSHER)	INSIDE	82.9
NEAR ROAD HOPPER (300 TPH CRUSHER)	INSIDE	81.4
1200 TPH CRUSHER INSIDE CCR	INSIDE	80.8
300 TPH CRUSHER INSIDE CCR	INSIDE	76.6
INSIDE PHYSICAL LAB	INSIDE	84.8
NEAR CONVEYOR BELT (BC-8 BBLT)	INSIDE	71.8
NEAR MINES STAFF COLONY	INSIDE	

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, advertisement or as legal document is prohibited.
- > Test sample will be released for 3 days after issue of report unless otherwise agreed with customer.
- > Full responsibility lies with the party who called for above test report.

PREPARED BY <i>[Signature]</i> Dated 23/12/2020		FOR ULTIMATE ENVIRONMENTAL SOLUTIONS <i>[Signature]</i> AUTHORIZED SIGNATORY
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End of the test report



Plot No. 272, Phase II - Near J.P. Chowk
Ring Road No. 2, Kader Nagar, Nasirpur (C.G.) - 492099
Ph. : 0771 - 4227777 | Email : ultimateenviro@gmail.com

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

Name & Address Of The Customer Birla Corporation Limited Unit-Sagmania Limestone Mines (A Unit of MP Birla Group) PO : Birla Vilas, Satna -485005, M.P. India	Report No.	UES/TR/20-21/00514
	Lab Ref No.	UES/20-21/AACM/00864
	Date of Sampling	14/12/2020 to 15/12/2020
	Date of Receipt	15/12/2020
	Date of Report	15/12/2020
	Date of Analysis	Start: 15/12/2020 End: 22/12/2020
	SAMPLE DETAILS	
Monitoring for	Ambient Air Quality Monitoring	
Sampling Location	Labour Colony (East)	
Customer Ref. No. & Date	454444071 DATED 14/12/2020	
Duration Of Sampling	As per CPCB norms	
Sample Collected By	Laboratory Chemists	
Sampling Procedure	As Per Method Reference	
Sample Capacity/Packing	Filter Paper (PM10): 144 No., Filter Paper (PM2.5): 121 No, SO2: 36 No, NOx: 36 No, PVC Bottles, Bulker Plastic Bag No., CPCB CARBON Tube, OZONE: SWRLLX No. Brown PVC Boxes, NH3: LUMAEL No. Brown PVC Boxes	

TEST REPORT

PARAMETER	UNIT	METHOD REFERENCE	CPCB STANDARD	RESULT
Particulate Matter size less than 10 microm (PM ₁₀)	µg/m ³	IS 5182 (Part 2): 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 2): 2006, RA 2006 + CPCB Guidelines Vol.-I	80	10.6
Nitrogen Dioxide (NO ₂)	µg/m ³	IS 5182 (Part 2): 2006 + CPCB Guidelines Vol.-I	80	24.8
Carbon Monoxide (CO)*	µg/m ³	IS 5182 (Part 10): 1999, RA 2003	4.0	0.64
Lead (Pb)	µg/m ³	CPCB Guidelines Vol-I and AAS Method	1.0	N.D.
Mackerel (ms)	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	5.0	N.D.
Ozone (O ₃)*	µg/m ³	CPCB Guidelines Vol-I	150	6.4
Amonia (NH ₃)	µg/m ³	CPCB Guidelines Vol-I	400	12.4
Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 12): 2006	5.0	N.D.
Benzolal Pyrene	ng/m ³	IS 5182 (Part 12): 2006	1.0	N.D.

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

Terms & conditions

- 1. The use of the report for publication, circulation or as legal document is forbidden.
- 2. Test sample will be retained for 15 days after issuance of the report unless otherwise agreed with customer.
- 3. This is for information on the party fees asked for analysis.

PREPARED BY		For ULTIMATE ENVIRONMENTAL SOLUTIONS
		AUTHORIZED SIGNATORY

End of the test report-----



HUDA-2/2, Phase II - Near JP Chowk
Ring Road No. 2, Kurbi Nagar, Raipur (C.G.) - 492099
Ph: 0771-4027777 | Email: info@envirolytical.com

Recognized by Ministry of Environment Forest and Climate Change Under EP Act 1986

Name & Address Of The Customer		Report No.	UES/TB/20-31/08512	-
To,		Lab Ref No.	UES/20-31/A/09/08159	
Birla Corporation Limited Unit-Sagmania Limestone Mines (A Unit of MP Birla Group) PO : Birla Vikas, Satna -485005, M.P. India		Date of Sampling	14/12/2020 to 15/12/2020	
		Date of Receipt	17/12/2020	
		Date of Report	19/12/2020	
		Date of Analysis	Start: 13/12/2020	End: 19/12/2020
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	A-Quarry Pump House (West)			
Customer Ref. No. & Date	4P49448572, 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): 20.1 No., Filter Paper (PM2.5): 30.1 No., SO2: 30mlX1 No, PVC Brown, NO2: 30mlX1 No, PVC White, Ozone: 30mlX1 No, Brown PVC Bottle, NH4: 10mlX1 No, Brown PVC Bottle			

TEST REPORT

PARAMETER	UNIT	METHOD REFERENCE	CPCB STANDARD	RESULT
Particulate Matter size less than 10 micros (PM10)	µg/m³	IS 5162 (Part 2): 2004 & CPCB Guidelines Vol.-I	100	92.0
Particulate Matter size less than 2.5 micros (PM2.5)	µg/m³	CPCB Guidelines Vol.-I	60	39.0
Sulphur Dioxide (SO₂)	µg/m³	IS 5162 (Part 2): 2001, As 2006 & CPCB Guidelines Vol.-I	60	12.4
Nitrogen Dioxide (NO₂)	µg/m³	IS 5162 (Part 4): 2004 & CPCB Guidelines Vol.-I	60	22.6
Carbon Monoxide (CO) *	µg/m³	IS 5182 (Part 10): 1999, As 2003	4.0	0.42
Lead (Pb)	µg/m³	CPCB Guidelines Vol.-I and AAS method	1.0	N.D.
Nickel (Ni)	ng/m³	CPCB Guidelines Vol.-I and AAS method	20	N.D.
Arsenic (As)	ng/m³	CPCB Guidelines Vol.-I, and AAS method	6.0	N.D.
Ozone (O₃) *	µg/m³	CPCB Guidelines Vol.-I	180	6.5
A�monia (NH₃)	µg/m³	CPCB Guidelines Vol.-I	400	12.4
Benzene (C₆H₆)	µg/m³	IS 5342 (Part 11): 2006	5.0	N.D.
Benz(a) Pyrene	ng/m³	IS 5342 (Part 12): 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, arbitration or as legal deposit 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 <i>[Signature]</i> 13/12/2020		FOR ULTIMATE ENVIROLYTICAL SOLUTIONS <i>[Signature]</i> 13/12/2020
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End of the test report-----



VDO-272, Phase II - Near JF Check
Ring Road No -9, Kachir Nagar, Raipur (C.G.) - 492006
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-Sagarmala Limestone Mines (A Unit of MP Birla Group) PO : Birla Vikas, Satna -485005, M.P. India	Report No.	UES/IR/21/03513
	Lab Ref No.	UES/28-21/AQOM/03164
	Date of Sampling	14/12/2020 to 15/12/2020
	Date of Receipt	17/12/2020
	Date of Report	20/12/2020
	Date of Analysis	Start: 18/12/2020 End: 23/12/2020

SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	AMCO Mining Shelter (North)
Customer Ref. No. & Date	45804446372, Date 10-12-2020
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (MM30); LXI No., Filter Paper (PM2.5); LXI No. 100; 30mm No. PVC Bottle, NO2: 30ml No. PVC BOTTLE, Rubber Shutter: 1Ltr no., OSHA: CARBOAL Tube, OZONE: UHMW No. Brown PVC Bottle, PM1: 20ml No. Brown PVC bottle

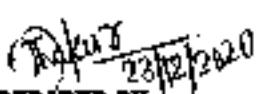
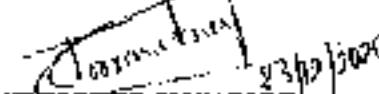
TEST REPORT

PARAMETER	UNIT	METHOD REFERENCE	CPCB STANDARD	RESULT
				AMCO Mining Shelter (North)
Particulate Matter size less than 10 microns (PM ₁₀)	ug/m ³	IS 5162 (Part 2): 2001, BEEQ & CPCB Guidelines Vol. - I	100	78.0
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 5162 (Part 2): 2001, BEEQ & CPCB Guidelines Vol. - I	60	10.8
Nitrogen dioxide (NO ₂)	ug/m ³	IS 5162 (Part 4): 2004 & CPCB Guidelines Vol. - I	80	26.2
Carbon Monoxide (CO)*	ug/m ³	IS 5162 (Part 10): 1999, BEEQ 2002	4.0	0.42
Lead (Pb)	ug/m ³	CPCB Guidelines Vol. - I and AAS Method	1.0	N.D.
Methyl (Hg)	ug/m ³	CPCB Guidelines Vol. - I and AAS Method	20	N.D.
Asbestos (As)	ug/m ³	CPCB Guidelines Vol. - I and AAS Method	6.0	N.D.
Ozone (O ₃)**	ug/m ³	CPCB Guidelines Vol. - I	180	8.2
Ammonia (NH ₃)	ug/m ³	CPCB Guidelines Vol. - I	400	16.4
Benzene (C ₆ H ₆)	ug/m ³	IS 5382 (Part 11): 2004	5.0	N.D.
Benzo(a)pyrene	ug/m ³	IS 5382 (Part 12): 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 called for environmental audit.

 PREPARED BY		For ULTIMATE ENVIRONMENTAL SOLUTIONS  AUTHORIZED SIGNATORY
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---End of the test report---



Ultimate
ENVIRONMENTAL SOLUTIONS

HDD-272, Phase-I, Near JP Crown
Ring Road No. 2, Koiri Nagar, Raipur (C.G.) - 492099
Ph: 0711-4027777 | Email: ultimatenviro@gmail.com

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

Name & Address Of The Customer	Report No.	UES/TH/28-22/09333
To,	Lab Ref No.	UES/28-22/AAQPN/00128
Birla Corporation Limited Unit-Segmania Limestone Mines (A Unit of MP Birla Group) PO : Birla Vikas, Sethna -495005, M.P. India	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: 19/12/2020 End: 23/12/2020

SAMPLE DETAILS

Monitoring For	Air Quality Monitoring
Sampling location	A-Quarry Dispensary (South)
Customer Ref. No. & Date	ES60445572, 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): 323 No., Filter Paper (PM2.5): 100 No, SO2: 30mL No, PVC Bottle, NO2: 30mL No, PVC BOTTLE, Rubber Bladder: 323 No., OSM: CARBOCAT Tube, OZONE: 100mL No, Brown PVC Bottle, INHALATION: 100, Brown PVC Bottle

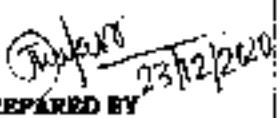
TEST REPORT

PARAMETER	UNIT	METHOD REFERENCE	CPCB STANDARD	RESULT
				Quality Dispensary (South)
Particulate Matter size less than 10 microns (PM10)	µg/m³	IS 5162 (Part 2): 2004 & CPCB Guidelines Vol.-I	100	61.0
Particulate Matter size less than 2.5 microns (PM2.5)	µg/m³	CPCB Guidelines Vol.-I.	60	48.0
Sulphur Dioxide (SO₂)	µg/m³	IS 5162 (Part 2): 2004 & CPCB Guidelines Vol.-I	80	8.2
Nitrogen Dioxide (NO₂)	µg/m³	IS 5162 (Part 2): 2004 & CPCB Guidelines Vol.-I	80	20.4
Carbon Monoxide (CO) *	µg/m³	IS 5162 (Part 1): 1999, SA 2002	4.0	0.36
Lead (Pb)	µg/m³	CPCB Guidelines Vol.-I and AAS Method	1.0	N.D.
Nickel (Ni)	µg/m³	CPCB Guidelines Vol.-I and AAS Method	20	N.D.
Arsenic (As)	µg/m³	CPCB Guidelines Vol.-I and AAS Method	6.0	N.D.
Ozone (O₃) *	µg/m³	CPCB Guidelines Vol.-I	100	4.8
Xenonide (NO₃)	µg/m³	CPCB Guidelines Vol.-I	400	9.6
Benzene (C₆H₆)	µg/m³	IS 5162 (Part 3): 2006	5.0	N.D.
Benz(a)Pyrene	µg/m³	IS 5162 (Part 12): 2006	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 legal dispute is forbidden.
- > Test sample will be retained for 15 days after issuance of report unless otherwise agreed with customer.
- > This is for information as the party has asked for.

 PREPARED BY		FOR ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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End of the test report



I.C.D.-2/2, Phased I - Near J.P. Chawla
Ring Road, No. 2, Khar Nagar, Raipur (C.G.) - 492009
Ph : 0771 - 4027777 | Email : ultimateenvsolutions@gmail.com

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

Name & Address of the Customer		REPORT NO.	UES/TA/20-21/03523
To, Birla Corporation Limited Unit-Sagmantra Limestone Mines (A Unit of MP Birla Group) PO : Birla Vilas, Betra - 485005, M.P. India		LAB. REF. NO.	UES/20-21/W/03276
		DATE OF SAMPLING	26/12/2020
		DATE OF RECEIPT	27/12/2020
		DATE OF REPORT	23/12/2020
		DATE OF ANALYSIS	START: 12/12/2020 END: 23/12/2020
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	SAGMANTRA MINES ETP WATER	CUSTOMER REF. NO. & DATE	4540446372 DATED 04-12-2020
SAMPLE TYPE	ETP WATER SAMPLE	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	JERRY CAN (5 LTR, 1) 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-II): 1983, RA 2012	5.5 To 9.0	7.53
2	Total Suspended Solid	mg/L	IS:3025: (Part-III): 1984, RA 2012	100	56.8
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-5A): 2006, RA 2012	250	62.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-4A): 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-L-16): 1984	--	420.5

Note:- mg/l = 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 called for above result only.

<i>Prepared By</i> 23/12/2020		For ULTIMATE ENVIRONMENTAL SOLUTIONS <i>Authorized Signatory</i> 23/12/2020
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End of the test report



Biria Corporation Limited
Unit: Satna Cement Works
P.O: Biria Vikas, Satna - 485005
Madhya Pradesh
P: 07672 412000/01 F: 07672 257456
E : admin.scw@birlacorp.com

Reqd. A/D

SCW/Q/VT/24 /2020-21

15.07.2020

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

**Su: 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 - 1966
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	Enrolled in the batch	Completed the course	Number of trainees successful in the test	Remark
1	Safe Practice -Blasting Explosive Carrier, Driver and General Mazdoor	R	512	4(x) & Self made modules	19.05.20	30.05.20	14	14	14	
2	Safe Operation & Maintenance - Driver, Filter, Helper & General Mazdoor	R	513	4(x) & Self made	14.06.20	26.06.20	15	15	15	

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

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

Code No. of Training Centre- Nil
 Signature of Training Officer
 Date : 15.07.2020
 Name in block letter : V.N. SINGH

Participation Record

Programme Title
Date 24/7/20
Faculty
Venue

Training regarding Health & Safety Pract's
: MHN.N.Singh
: V.T.Center

SN	Code	Name	Designation	Dept	Signature
1.	59540	गोपीराम	Examining	Mines	मिनेस
2.	59533	शंकर तलाह	Blaster	"	तलाह
3.	59535	बलदेव	Helper	"	बलदेव
4.	68057	स्यमन सिंह	Ex. "	"	स्यमन सिंह
5.	87412	रामधैपाल	Ex. "	"	रामधैपाल
6.	94901	पुष्पराज सिंह	Ex. "	"	पुष्पराज सिंह
7.	87410	शंकर लाल कील	" "	"	शंकर लाल कील
8.	87400	शंकर लाल कुशवाहा	" "	"	शंकर लाल कुशवाहा
9.	59537	गोपीलाल	Blaster	"	गोपीलाल
10.	87403	मोहराज मिशन	Ex. Helper	"	मोहराज मिशन
11.	88607	कर्तव्य	" "	"	कर्तव्य
12.	88648	कमल मानार्ह	Ex. Blaster	"	कमल मानार्ह
13.	88630	रामदेव	" "	"	रामदेव
14.	68100	रामसुन्दर गोपीराम	" "	"	रामसुन्दर गोपीराम
15.	67303	नवय लाल साहा	" "	"	नवय लाल साहा
16.	67306	रामदेव	" "	"	रामदेव
17.	94294	अनुज कुशवाहा	" "	"	अनुज कुशवाहा
18.	88630	रामदेव	" "	"	रामदेव
19.	87490	भूरेश	" "	"	भूरेश
20.	87493	रेणु	" "	"	रेणु
21.	94661	बलदेव	" "	"	बलदेव
22.	94824	मोहराज मिशन	" "	"	मोहराज मिशन
23.	88641	विनोद माल	" "	"	विनोद माल
24.	94672	अनुज गोपीराम	" "	"	अनुज गोपीराम
25.	94826	शंकर पुष्पराज	" "	"	शंकर पुष्पराज
26.	87503	रामदेव	" "	"	रामदेव
27.	94673	विनोद माल	" "	"	विनोद माल

P.S.
Mr. P. R. Patel

Programme Title
Date 25/7/20
Faculty
Venue

Participation Record

Training for proper Usage of Personal
Protective Equipment

Mh. V. N. Singh
V.T. Center

SN	Code	Name	Designation	Date	nature
1.	59540	दिलो रामें	Ex. V. Driver	"	प्रौद्योगिकी
2.	59533	शुभेनु माना	Blaster	"	प्रौद्योगिकी
3.	59511	महेन्द्र कुमार	Blaster	"	प्रौद्योगिकी
4.	59535	बलदेव	Ex. V. Driver	"	न जानक
5.	68057	समरात सिंह	" "	"	सरकारी सेवा
6.	87412	रामलाल	" "	"	प्रौद्योगिकी
7.	94901	प्रतापराज रामें	" "	"	प्रौद्योगिकी
8.	87410	श्रींग लाल कीर्ति	" "	"	प्रौद्योगिकी
9.	87400	श्रींग लाल चूड़ाला	" "	"	प्रौद्योगिकी
10.	59537	जीरे लाल	Blaster	"	गोपनीय
11.	87403	गोदराज रामें	" Helper	"	गोदराज
12.	88607	बरेन्द्र	" Helper	"	बरेन्द्र
13.	88648	कमलगांगा सिंह	G. Magician	"	कमलगांगा
14.	88630	रामदेव	"	"	रामदेव
15.	94294	अनुष्ठुन शुभेनु	"	"	अनुष्ठुन
16.	67303	नव्यु लला शुभेनु	"	"	नव्यु लला
17.	67306	रामदेव पाल	"	"	रामदेव
18.	68100	शुभमुखी गोपनी	"	"	शुभमुखी
19.	87490	सुरेन्द्र लाल	"	"	सुरेन्द्र
20.	94661	लाल बहार	"	"	लाल बहार
21.	94672	अमर रजनी	"	"	अमर रजनी
22.	87401	प्रदेव गांगे	"	"	प्रदेव गांगे
23.	88658	रामदेव गोपनी	"	"	रामदेव गोपनी
24.	94673	शुभेनु पुराण	"	"	शुभेनु पुराण
25.	88635	रामदेव	"	"	रामदेव
26.	87491	शुभेनु रामदेव	"	"	शुभेनु रामदेव
27.	87503	रामदेव	"	"	रामदेव

(. राम)

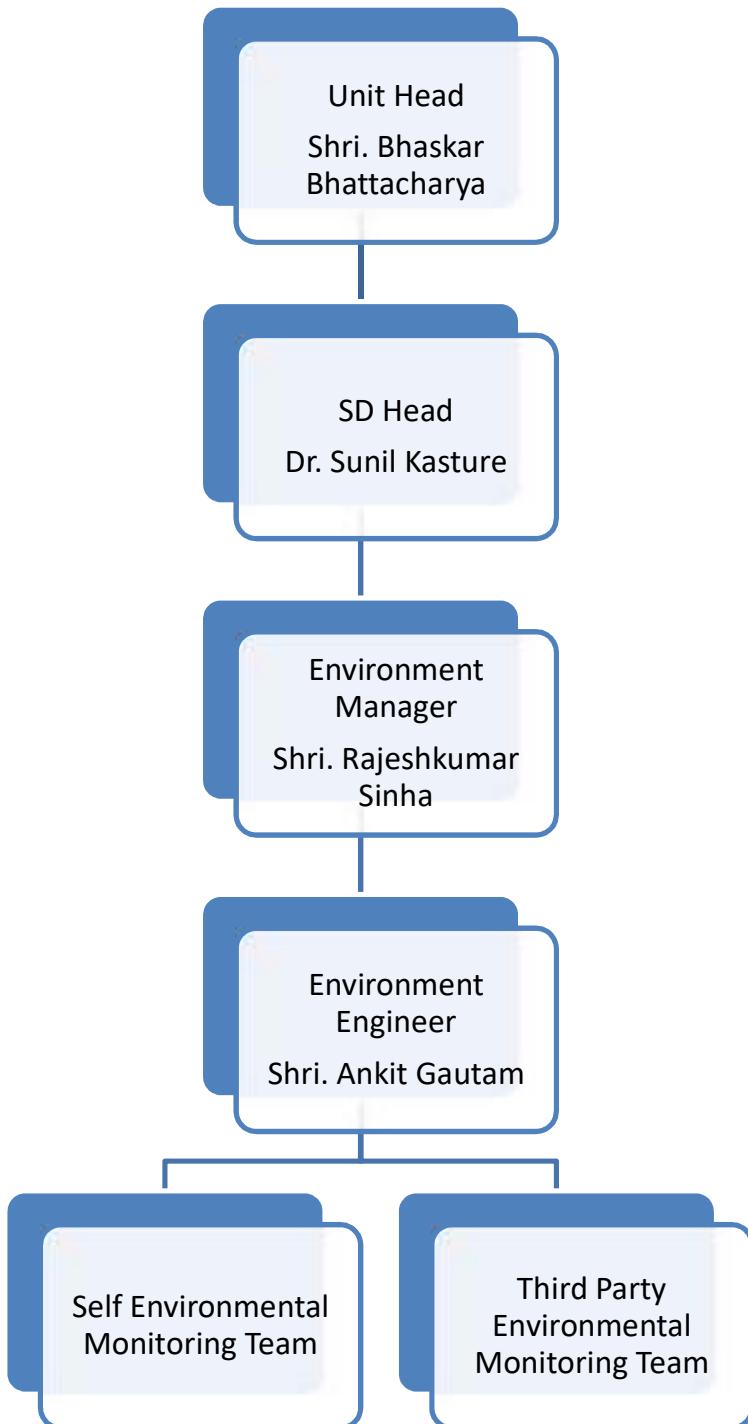
Annexure-22

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

Date : 10.01.2008

To,
District Collector
Satna (M.P.)

Subject: Sagmania Limestone Mining Project of M/s Birla Corporation Limited located in Village Sagmania, Tehsil Raghuraj Nagar, District-Satna, Madhya Pradesh- Environmental Clearance reg.

Dear Sir,

We thankfully acknowledge the receipt of letter No.J-11015/271/2006-IA.II(M) dated 27 December,2007 from Government of India, Ministry of Environment and Forest, New Delhi regarding Environmental Clearance of our Sagmania Limestone Mining Project of M/s Birla Corporation Limited located in Village-Sagmania, Tehsil-Raghuraj Nagar, District-Satna, Madhya Pradesh. Subsequently what action we are required to take, a copy of the same is enclosed for your kind reference.

As per the General Condition No. (XVII) laid down in the above referred letter, we request you to please display the copy of the said Environmental clearance letter in the notice board of your Office for 30 days.

Thanking you,

Yours faithfully,
for BIRLA CORPORATION LIMITED
(CEMENT DIVISION) SATNA

(D. ROY)
GENERAL MANAGER(MINES)

Encl.As above.

Date : 10.01.2008

To,
District Industry Center
Satna (M.P.)

Subject: Sagmania Limestone Mining Project of M/s Birla Corporation Limited located in Village Sagmania, Tehsil Raghuraj Nagar, District-Satna, Madhya Pradesh- Environmental Clearance reg.

Dear Sir,

We thankfully acknowledge the receipt of letter No.J-11015/271/2006-IA.II(M) dated 27 December,2007 from Government of India, Ministry of Environment and Forest, New Delhi regarding Environmental Clearance of our Sagmania Limestone Mining Project of M/s Birla Corporation Limited located in Village-Sagmania, Tehsil-Raghuraj Nagar, District-Satna, Madhya Pradesh. Subsequently what action we are required to take, a copy of the same is enclosed for your kind reference.

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Thanking you,

Yours faithfully,
for BIRLA CORPORATION LIMITED
(CEMENT DIVISION) SATNA

(D. ROY)
GENERAL MANAGER(MINES)

Encl.As above.

आम सूचना

सर्व साधारण को सूचित किया जाता है कि बिरला कार्पोरेशन लिमिटेड की ग्राम सगमनिया, तहसील रघुराजनगर, जिला सतना (म.प्र.) स्थित सगमनिया लाईम स्टोन माइन्स को पर्यावरण एवं वन मंत्रालय, भारत सरकार, नई दिल्ली द्वारा अपने पत्र क्रमांक J-11015/271 / 2006 / IA. II (M) दिनांक 27 दिसम्बर 2007 द्वारा लाईम स्टोन के उत्खनन की क्षमता 3.3 MTPA से 4.9 MTPA करने की स्वीकृति प्रदान की गई है। सगमनिया लाईम स्टोन माइन्स का माईनिंग लीज एसिया 939.78 हेक्टेयर है। उपरोक्त पत्र की प्रति मध्यप्रदेश प्रदूषण नियंत्रण बोर्ड (सतना), जिला उद्योग केन्द्र (सतना), कलेक्ट्रेक्ट ऑफिस (सतना) एवं पर्यावरण एवं वन मंत्रालय की वेबसाईट <http://envfor.inc.in> पर उपलब्ध है।

आम सूचना

सर्व साधारण को सूचित किया जाता है कि बिरला कार्पोरेशन लिमिटेड की ग्राम सगमनिया, तहसील रघुराजनगर, जिला सतना (म.प्र.) स्थित सगमनिया लाईम स्टोन माइन्स को पर्यावरण एवं वन मंत्रालय, भारत सरकार, नई दिल्ली द्वारा अपने पत्र क्रमांक J-11015/271/2006/IA, II(M) दिनांक 27 दिसंबर 2007 द्वारा लाईम स्टोन के उत्खनन की क्षमता 3.3 MTPA से 4.9 MTPA करने की स्वीकृति प्रदान की गई है। सगमनिया लाईम स्टोन माइन्स का माईनिंग लीज एरिया ९३९.७८ हेक्टेयर है।

उपरोक्त पत्र की प्रति मध्यप्रदेश प्रदूषण नियंत्रण बोर्ड (सतना), जिला उद्योग केन्द्र (सतना), कलेक्टर ऑफिस (सतना) एवं पर्यावरण एवं वन मंत्रालय की वेबसाइट <http://envfor.mnc.in> पर उपलब्ध है।