

JAL/DCF/Env./260-16

Date: 18/05/2016

To,

Member Secretary

UPPCB- Lucknow (UP)

Sub: Compliance of Environment Clearance for the Billi- Markundi Julgul - (17.155 Ha) at Billi -Markundi (Julgul)

Ref: Letter No. 458 dated 20.03.2008

Dear Sir,

This has reference of letter no. 485 dated 20.03.2008 regarding Environment Clearance of the Billi- Markundi (Julgul) Limestone Mines (17.155) at Billi- Markundi (Julgul) distt. Sonbhadra (UP), we are submitting Point wise compliance status for the period of October'15 to March 2016' to your good office for information and record please.

Thanking you,

Yours faithfully

For DALLA CEMENT FACTORY

(A Unit of Jaiprakash Associates Ltd.)


(Satyendra Katiyar)

Sr. VP (TECH)

CC: 1) Secretary, SEAC and Director, Environment Directorate Govt. of Uttar Pradesh.

2) Regional office Ministry of Environment and Forest, Kendriya Bhawan Aliganj Lucknow.

3) Regional Officer UPPCB Robertsganj.

**EC COMPLIANCE REPORT ON STIPULATED
CONDITIONS MADE BY STATE LEVEL
ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY U.P**

(VIDE LETTER No. : Letter No. 458 dated 20.03.2008)

Submitted By

DALLA CEMENT FACTORY

(A Unit of Jaiprakash Associates Ltd.)

Dalla, Robertsganj, Sonebhadra (U.P) 231207

Ph. 05445-265778, 265801, 265802

Name of the Project : BILLI –MARKUNDI (JULGUL) LIMESTONE MINE, AREA 17.155 Ha.
 Project Code : SEIAA, Lucknow vide letter no.458 dated 20/03/2008.
 Period of Compliance Report : October 2015 to March 2016

A. GENERAL CONDITIONS:																																																													
S. No	Condition	Status																																																											
1	No. Change in mining technology and scope of working should be made without prior approval of the SEIAA.	Mining Activities are being carried out as per Approved Mining Plan by Indian Bureau of Mines. Whenever any change is needed prior approval of SEIAA shall be obtained.																																																											
2.	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	There will be no change in the volume / quantity of Limestone & Overburden, these will be as per Approved Mining Plan.																																																											
3	Conservation measures of protection of flora and fauna in the core and buffer zone should be drawn up on consultation with the local forest department and experts.	An area of 10.00 Ha. has been earmarked in Dalla Limestone Mining Lease Area (751.00 Ha.) for conservation of Flora & Fauna. More than 90% Fencing has been completed.																																																											
4	Four ambient air quality monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO ₂ and NO _x 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.	<p>Four Ambient Stations viz. Drilling Site, Loading Site, Transportation / Road Site and Mine Office has been selected in consultation with UPPCB and regular monitoring is being done (PM-10, PM_{2.5}, SO₂, NO_x & CO). The monitoring data in Obra and Rakshhawa villages in Buffer zone are also being recorded and sent to UPPCB, Lucknow. Recorded average Data are as under:</p> <table border="1"> <thead> <tr> <th rowspan="2">Param eter</th> <th colspan="4">Core Zone</th> <th colspan="4">Buffer Zone</th> </tr> <tr> <th>Drilling Site</th> <th>L/S Loadin g Site</th> <th>Near Haulag e Road</th> <th>Near Mines Office</th> <th>Raksah wa</th> <th>Obra Bazar</th> <th>Billi-Mark undi</th> <th>Telgu rwa</th> </tr> </thead> <tbody> <tr> <td>PM10</td> <td>76</td> <td>73</td> <td>75</td> <td>74</td> <td>71</td> <td>70</td> <td>72</td> <td>69</td> </tr> <tr> <td>PM2.5</td> <td>39</td> <td>38</td> <td>36</td> <td>38</td> <td>32</td> <td>33</td> <td>32</td> <td>31</td> </tr> <tr> <td>SO_x</td> <td>18</td> <td>19</td> <td>18</td> <td>18</td> <td>19</td> <td>17</td> <td>18</td> <td>19</td> </tr> <tr> <td>NO_x</td> <td>21</td> <td>21</td> <td>22</td> <td>23</td> <td>18</td> <td>16</td> <td>16</td> <td>17</td> </tr> </tbody> </table>							Param eter	Core Zone				Buffer Zone				Drilling Site	L/S Loadin g Site	Near Haulag e Road	Near Mines Office	Raksah wa	Obra Bazar	Billi-Mark undi	Telgu rwa	PM10	76	73	75	74	71	70	72	69	PM2.5	39	38	36	38	32	33	32	31	SO _x	18	19	18	18	19	17	18	19	NO _x	21	21	22	23	18	16	16	17
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5	Data on ambient air quality (RPM, SPM, SO ₂ NO _x and CO) should be regularly submitted to the State Pollution Control Board once in six months.	Monitoring data are regularly being sent to UPPCB, Lucknow once in six months as above.																																																											
6	Fugitive dust emissions from all the sources should be	Fugitive Dust Emissions are being monitored regularly on Haul Roads, Dumps,																																																											

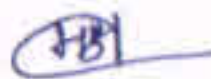
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	controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading, dumps loading & unloading points should be provided and properly maintained.	and Loading & Unloading Points. Regular Water spraying is being done at every generation points to arrest fugitive dust emissions.
7	Adequate measures should be taken for control and noise levels within prescribed standards. Workers engaged in blasting and drilling operations, operations of HEMM, etc. should be provided with ear plugs/muffs.	Controlled Blasting with the help of Nonelectric detonators to minimize Ground Vibrations & Noise level in the surrounding areas during blasting. However, Ear Muffs / Plugs have been provided to the workmen working in noisy areas.
8	Industrial waste water (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 31 December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop.	Oil and grease trap has been installed and functional at mine workshop for the treatment of waste water and treated water is reused for dust suppression.
9	Acid mine water, if any has to be treated and disposed of after conforming to the standard prescribed the competent authority.	No acidic water or toxic water is being generated in mine.
10	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.	Safety Helmets, Shoes, Gloves, Ear Muffs / Plugs, Goggles, Dust Masks etc. are being provided to the all workmen working in Mining Area. Monthly Training at V.T. Centre is being given to all Executives, Staff & Workers on safety and health aspects.
11	Occupational health surveillance program 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 program may be extended to adjoining villages also.	Jaiprakash Associates Limited (JAL) is conducting Health (Medical) Camps to educate workers and local residents of surrounding areas. There is no radioactive mineral present in the mine.
12	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.	A Separate Environment Management Cell is functioning, having qualified and experienced personnel of Environment field.
13	The funds earmarked for environmental protection measures should be kept in separate accounts and should	Environmental budget is kept separately for Environment Dept. and is not diverted for other purposes. The Annual expenditure for Pollution control for

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	not be diverted for other purposes; Year-wise expenditure should be reported to the UPPCB.	plant and mines for environment protection during FY was Rs. 946 Lacs in the year 2015-16.
14	The UP Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office(s) of the Regional Office by furnishing requisite data/information/monitoring reports.	Noted and Agreed. All the monitored data are also regularly being sent to Regional Office, UPPCB Sonbhadra and UPPCB, Lucknow.
15	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.	Copy of the clearance letter has already provided to concerned Panchayat/ local NGO and concerned state pollution control Board.
16	The project authorities should inform to the UPPCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	We have already received approval of progressive Mine Closure plan along with Mining Scheme of Julgul & Bhalua from IBM vide letter no.314(3)/2011-MCCM(CZ)/59 dated 23.04.2012 and 314 (3)/2011-MCCM(CZ)/60 dated 25.05.2012 respectively, accordingly land degradation/development work is going on.
17	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's/Tehsildar's Office for 30 days.	Already complied.
18	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.	Already complied. This Environment Clearance letter has been published in Local Hindi News Paper.
19	The SEIAA or any other competent authority may alter/ modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted and Agreed.
20	Failure of comply with any of the conditions mentioned above may result in withdrawal of this clearance and	Noted and Agreed.





	attract action under the provisions of Environment (Protection) act, 1986.																			
21	The above conditions will be enforced, inter alia, under the provision of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act 1991 along with their amendments and rules.	Noted and Agreed.																		
B	SPECIFIC CONDITIONS																			
Sl. No.	Condition	Compliance																		
1	Noise level due to blasting may be assessed at the boundary of the mine with the help of noise modeling to adopt noise control measures keeping in view proximity of habitation.	Controlled Blasting Technique with Non electric detonators is used for blasting to reduce the ground vibration and noise level. No Secondary Blasting is done. Noise level is well within the permissible standard. Recorded data are as under: Noise Level dB (A) Leq* <table border="1"> <thead> <tr> <th>Time</th> <th>Drilling Site</th> <th>L/S Site</th> <th>Loading</th> <th>Near Haulage Road</th> <th>Near Mines Office</th> </tr> </thead> <tbody> <tr> <td>DAY</td> <td>69</td> <td>67</td> <td></td> <td>66</td> <td>63</td> </tr> <tr> <td>NIGHT</td> <td>62</td> <td>61</td> <td></td> <td>60</td> <td>57</td> </tr> </tbody> </table>	Time	Drilling Site	L/S Site	Loading	Near Haulage Road	Near Mines Office	DAY	69	67		66	63	NIGHT	62	61		60	57
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2	Study on effect of mining activity on nearby human habitation (Life and property) shall be made. Remediation measures (including rehabilitation) should be taken up accordingly. Minimum distances from mining site to the nearest human habitation should be as per mining guidelines, as prescribed and certified by the competent authority. It should be ensured that there is no damage to life or property as result of mining in the area.	Company is adopting modern Mining techniques adhering the provision of Mines Act/ Rules/ Regulations for Mining of Limestone and Overburden as per approved Mining Plan. All precautions are being taken to ensure that there is no damage to life or property due to mining activity in the area.																		
3	Regular medical tests of mine laborers and human population in the vicinity should be made and plan should be submitted accordingly.	Regular annual/periodical medical examination of the employee of different sites of plant and mines has been carried out 118 employees have been examined and no occupation disease has been noticed during the period of October 2015 to March 2016.																		

4	Awareness drive should be launched to make common people of the concerned area aware about mining activities prevailing, impacts of mining activities and safeguards.	Publicity & propaganda during Mines Safety Week & Mines Environment Week is being done for awareness of Local Public about Mining activities															
5	CPCB suggested plantation plan should be followed.	<p>The details of the green belt Management for both plant premises and Mining lease area are as under:-</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Total Plantation</th> <th>Nos. of Plant survived</th> </tr> </thead> <tbody> <tr> <td>2012-13</td> <td>5842</td> <td>4360</td> </tr> <tr> <td>2013-14</td> <td>3440</td> <td>3005</td> </tr> <tr> <td>2014-15</td> <td>1500</td> <td>1228</td> </tr> <tr> <td>2015-16</td> <td>1500</td> <td>807</td> </tr> </tbody> </table>	Year	Total Plantation	Nos. of Plant survived	2012-13	5842	4360	2013-14	3440	3005	2014-15	1500	1228	2015-16	1500	807
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6	Arrangements should be made regarding wheel wash for removal of mud from vehicles coming out of mining area.	Arrangement for Wheel Wash has been provided at Mine Workshop by way of a 'Washery Bay' for cleaning mud from vehicles coming out of mining area. This waste water is being used for plantation around Mine Office & Workshop Area.															
7	Bio-medical treatment facilities should be provided as per law.	Bio - Medical Waste treatment is being carried out as per the Biomedical waste (Management and Handling) Rule 1998. BMW is being sold to Authorized recycler M/S Center for pollution at Varanasi.															
8	Regular ground water monitoring should be done and report should be made available to State Pollution Control Board as well as to ground water department.	Regular Ground Water Monitoring is being done by installing Piezometer in Core Zone. Data are being recorded and submitted to board regularly.															
9	The maximum production from the mining lease (17.155 Ha) shall not exceed 2.8 million tones per annum.	Noted and Agreed. The Maximum production of Limestone from this Billi - Markundi (Jugul) Limestone Mining Lease Area (17.155 Ha.) shall not exceed to 2.8 MTPA.															
10.	The Project proponent shall ensure that maximum production of limestone from all the seven mining leases should not exceed 3.5 million tones per annum.	Noted and Agreed.															
11	Top soil should be stacked properly with adequate measures at earmarked site. It should be used for reclamation and rehabilitation of mined out area.	Top soil whenever removed is being stacked separately at earmarked place and is used for covering road side bunds and dormant dumps for plantation by way of spreading 2-3 feet top soil on waste dumps after leveling, ultimately used for plantation.															
12	The over burden generated shall be concurrently backfilled and there shall not be any external over burden dump in the mine	In conceptual stage of mining there will be no external dumps of overburden / reject, rather the same material shall be used for															





	lease area.	backfilling if devoid / worked out areas. Since total material will not be available for backfilling so 60-70% of areas shall be reclaimed in form of reservoir to collect rain water of the areas. Ultimately this stored water shall be used for agriculture pisciculture.																				
13	Plantation shall be raised in an area of 9.79 ha by planting the native species around the ML area, excavated area, roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	<p>Plantation in and around mining areas is being done in consultation with DFO/ local forest experts. The details of the green belt Management for both plant premises and Mining lease area are as under:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Total Plantation</th> <th>Nos. of plant survived</th> <th>Survival rate percentage</th> </tr> </thead> <tbody> <tr> <td>2012-13</td> <td>5842</td> <td>4360</td> <td>75%</td> </tr> <tr> <td>2013-14</td> <td>3440</td> <td>3005</td> <td>87%</td> </tr> <tr> <td>2014-15</td> <td>1500</td> <td>1228</td> <td>82%</td> </tr> <tr> <td>2015-16</td> <td>1500</td> <td>807</td> <td>53%</td> </tr> </tbody> </table>	Year	Total Plantation	Nos. of plant survived	Survival rate percentage	2012-13	5842	4360	75%	2013-14	3440	3005	87%	2014-15	1500	1228	82%	2015-16	1500	807	53%
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14	The mining operations shall not intersect groundwater table. Prior approval of the Central Ground Water Authority shall be obtained for mining below water table.	Whenever mining will be done below ground water table, prior approval from Central Ground Water Authority shall be obtained.																				
15	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly de-silted particularly after monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump 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 slit material. Sedimentation pits should be constructed at the corners of the garland drains and de-silted at regular intervals.	<p>Catch Drains / Siltation Ponds have been constructed connecting Garland Drains made around Dump Yards, Top Soil yards/ Working Areas etc.</p> <p>The drains are de-silted after rainy season and maintained properly.</p>																				
16	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run off and siltation should be	Retaining walls at toe of Dumps and OB Benches to check Run – off and siltation has been made based on Rain fall data.																				

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	based on the rain fall data.	
17	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing well and constructing new piezometers at suitable location in project area during the mining operation. The monitoring should be carried out four times in a year pre-monsoon (April-May), monsoon (August), Post – monsoon (November) and winter (January) and the data thus collected may be sent regularly to UPPCB, Central Ground Water Authority and Central Ground water Board.	New Piezometer wells have been constructed and monitoring is carried out. Pre monsoon, Monsoon and Post Monsoon data are sent to Ministry, its regional Office at Lucknow, Central Ground water Board and UPPCB, Lucknow regularly.
18	The project authority should implement suitable water conservations measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	In order to comply with water conservation measures, three numbers artificial reservoir of capacity 1 Lac M3, 1.5 Lac M3 and 1500 m3 have been developed to recharge the ground water as well as use in plantation and water sprinkling to reduce fugitive emission.
19	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with CGWB.	Suitable rainwater harvesting and conservation measures to augments groundwater resources in the area on long term basis have been taken. Mining pits water are used for dust suppression and horticulture.
20	Drills should be operated with dust extractors or should be equipped with water injecting system.	Wet drilling system has been adopted.
21	Permission from the competent authority for drawl of ground water, if any required for the project may be obtained.	Source of water is from radial bore well near Sone River and permission has already been obtained for 6000KLD , vide letter no. 199/भूउजा०बी०जी०सा०खा० मी० / दिनांक....मीरजापुर, 2007
22	Vehicular emission should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	Vehicular emission is being controlled through regular maintenance of vehicles used in mining operations. It is ensure that vehicles covered with tarpaulin & are not overloaded.
23	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 is being carried out in day time only with controlled blasting techniques to control ground vibrations and noise level. No secondary blasting is done.

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24	Crusher should be operated with high efficiency bag filters. Water sprinkling system should be provided to check fugitive emission from crushing operation. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Bag Filters are installed at all transfer points, raw material handling (Unloading, Conveying, transporting, stacking), bagging and packing areas and Sprinkling of water is continuously carried out at high fugitive dust emission area like vehicle movement. Cold water fogging system is installed at all transfer points to reduce fugitive emission.
25	Consent to operate should be obtained from SPCB before starting production from this mine.	Consent to operate has been obtained Vide letter F76125/C-2/Air pollution/167/2016 dated on 29/03/16 for Air consent, F76124/C-2/Water pollution- 73/2016 dated on 29/03/16 for Water consent of Julgul Limestone Mines and valid up to 31/12/2017.
26	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and mineral separation plant wastewater.	Sewage Treatment Plant (800 KLD) is in operation and oil & grease trap has been constructed at auto workshop for treatment of waste water. Mineral beneficiation/separation is not required hence no waste water is generated from mining activity.
27	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the UPPCB 5 years in advance of final mine closure of approval.	A Final Mine Closure Plan shall be submitted 5 years in advance.
28	At least two regular monitoring stations shall be provided in the villages with the 1 km of the project. The monitoring shall be done at least twice a week through of the year.	Obara and rakshawa villages have been selected for monitoring with in 1 KM of Mining site. The monitoring report sends to Regional office/UPPCB regularly.



