

Ref. No: - N.S. Cor./HLD/2017-2018/

Dated: 17/05/2017

To,  
The Director (Environment)  
Ministry of Environment & Forest & Climate Changes  
Forest Research Institute (FRI) Campus, Pierson Road  
New Forest, Dehradun -248006

**Subject:- Compliance Report of condition given in Environment Clearance of Kirauli soapstone mine**  
**Name of the project:- Kirauli Soapstone Mine Located in Village Kirauli, Reema ,Odyura & Kafali ,Teshil & District Bageshwar , Uttarakhand.**  
**Name of the company: - M/s N.S Corporation**  
**Environmental Clearance Letter: - No .J-11015/439/2006-IA.II(M) dated 12/03/2010.**  
**Period:- 1<sup>st</sup> October, 2016 to 31<sup>st</sup> March, 2017.**

Dear Sir,

The Specific & general conditions given in the environmental clearance **No J- 11015/439/2006-IA.II (M) dated 12/03/2010**, the point wise compliance & status is furnished below.

**A. Specific conditions**

S. No	Specific conditions	Status
1	The project proponent shall obtain consent to establish and consent to operate from the Uttarakhand environment protection and pollution control board and effectively implement all the conditions stipulated therein.	All conditions as per Consent to Establish given by Uttarakhand Environment Protection and Pollution Control Board are being implemented. Regularly compliance report of consent to operate 2016-2017 already has been submitted to the UEPPCB.  Provisional Consent to operate has been obtained & valid up to 31/03/2017 & renewal application of CTO is pending at Uttarakhand environment protection and pollution control board.
2	The environmental clearance is subject to grant of approval of the State Land use Department, Government of Uttarakhand for diversion of agricultural land for non agricultural use.	For mining in nap land approval of state land use department is not mandatory.
3	The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In Case of working below the ground water table, prior approval of the Ministry of environment and forest and the central ground water authority shall be obtained, for which a detailed hydro geological study shall be carried out.	Mining operations are confined above ground water table only.
4	The project proponent shall ensure that no natural water course and /or water resources are obstructed due to any mining operations .Adequate measures	No water courses are obstructed due to mining operations.

	by way of providing check dams etc. shall be taken for protection of nallas passing through the mine lease during the course of mining operation.	
5	The top soil should temporarily be stored at earmarked sites only and should not be kept unutilized for a period more than one year. The topsoil should be used for land reclamation and plantation.	The soil is temporarily stacked separately on the earmarked area near mining pit and it is back filled before on set of monsoon. Soil Monitoring report of the month December 2016 are enclosed here with as <b>Annexure No I.</b>
6.	The waste generated shall be progressively backfilled and there shall be brought back in the form of cultivable field and handed over to the land owners. Compliance status should be submitted to the ministry of environment & forests and its Regional office located at lucknow on Six monthly basis.	<p>Mining is done in Block B, C-1 &amp; D and waste dumping is done by back filling in mining pit.</p> <p>Production:- 26,500 Tones in 2016-17 year (April,2016 to Sep 2016)</p> <p>Production: - 59500 Tones in 2016-17 year( 1<sup>st</sup> April,2016 to 31<sup>st</sup> March,2017)</p> <p>Over Burden :- 89250 Tonnes</p>
7	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, Temporary soil dump and mineral dumps to prevent run off of water and flow of sediments directly into the agricultural fields river and water bodies. 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.</p> <p>Garland drains of appropriate size, gradient and length shall be constructed for mine pit, temporary soil and mineral dumps to prevent run off of water and flow of sediments directly into the agricultural fields, river, water bodies 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.</p>	<p>Catch drains, Siltation ponds and garland drains of appropriate size have been constructed for mine pit, OB dumps and mineral stacks. These are also maintained regularly.</p> <p>Garland drains are constructed in Reema Gadra and Surkhali block. They were regularly cleaned and maintained during April,2016 to March 2017, Rs 34,800/-.</p>
8	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rain fall data	<p>Retaining walls at the toe of dump, check dams on nallas, water drain, garland drains etc are being provided keeping in view the average rainfall in the area.</p> <p>OB benches are competent enough to check run off &amp; siltation in the area.</p>

		<p>Necessary monitoring and maintenance before monsoon and during rains is ensured for check dams, garland drains etc.</p> <p>40 meters new retaining walls were made at site during 01/10/2016 to 31/03/2017 costing around Rs 100,500/-.</p>																				
9	<p>Plantation shall be raised in an area of 13.52 ha including 7.5 m wide green belt in the safety zone around the mining lease by planting the native species around ML area, reclaimed benches, roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2000 plants per hectare. Green belt shall be developed all along the mine lease area in phased manner and shall be completed with in first five years</p>	<p>Plantation details are given as <b>annexures No II</b> for the period (Up-to 2008 &amp; 2008 - 2017).</p> <p>Total 600 plants are purchased, planted in Van Panchayats Odyura and Reema and distributed to the local villagers for plantation in van panchayats during last six months &amp; survival rate is 70 %.</p> <p>Species Planted in the buffer zone, Phaliyat Banj, Shattoot, Ram Bans.</p>																				
10	<p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading &amp; un loading points and all transfer points .Extensive water sprinkling shall be carried on haul roads .it should be ensured that the ambient air quality parameters conform to the norms prescribed by central pollution board in this regard.</p>	<p>Water sprinkling is done on mule tracks, dumps, haul roads, mine benches etc for dust suppression.</p> <p>AAQ of month of December 2016 shows that PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub> are within the prescribed limits <b>Annexure- III.</b></p> <table border="1"> <thead> <tr> <th>Location</th> <th>PM<sub>10</sub></th> <th>SO<sub>2</sub></th> <th>NO<sub>2</sub></th> </tr> </thead> <tbody> <tr> <td>Mine Face area</td> <td>62.49</td> <td>7.0</td> <td>13.53</td> </tr> <tr> <td>Nr Road</td> <td>55.65</td> <td>8.57</td> <td>12.49</td> </tr> <tr> <td>Surkhali Village</td> <td>54.85</td> <td>8.96</td> <td>11.81</td> </tr> <tr> <td>Odyar Village</td> <td>49.87</td> <td>8.27</td> <td>11.28</td> </tr> </tbody> </table>	Location	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	Mine Face area	62.49	7.0	13.53	Nr Road	55.65	8.57	12.49	Surkhali Village	54.85	8.96	11.81	Odyar Village	49.87	8.27	11.28
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11	<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>No ground water is used.</p> <p>During monsoon period through several check dams rain water is conserved to recharge water table.</p> <p>Two siltation ponds are constructed and 5 Check dams in Block No B (Reema Gadara ). Cost, Rs. 1,21,000/-</p>																				
12	<p>Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring (at least four times in a year pre-monsoon (April-May), monsoon(August), post- monsoon(November) and winter (January) once in each season ) shall be carried out in consultation with the state ground water board /central ground water authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional</p>	<p>No ground water is used. Water flowing in the small streams is only used which is also qualitatively monitored.</p> <p>Water analysis report for the month of January, 2017 are given in <b>Annexure IV.</b></p>																				

	Office at Lucknow, Central Ground Water Authority and Regional Director, Central Ground Water Board. If at any stage, it is observed that ground water table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	
13	Regular monitoring of water quality upstream and down stream of the nallahs passing /originating from the mine lease shall be carried out and record of monitoring data should be maintained & submitted to Ministry of Environment and Forests and its Regional Office at Lucknow, Central Ground Water Authority, Regional Director, Central Ground Water Board, State pollution control board and central pollution control board.	No ground water is used. Water flowing in the small streams is only used which is also qualitatively monitored.
14	Appropriate mitigative measures should be taken to prevent pollution of Pungar River & Saryu river flowing at a distance of 2.5 km & 5.5 Km .respectively from the mine lease in consultation with the State Pollution Control Board.	Yes, we are taking appropriate mitigations measures as suggested by IBM while approving mining plan & no condition is imposed by SPCB.
15	The project proponent shall obtain necessary prior of the competent authorities for drawl of requisite quantity of water (surface water) required for the project.	We are using only stream water.
16	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director ,Central Ground water Board.	Only surface water 15.0 KLD is used & water drainage is not disturbed suitable 5 check dams of 2.0 m L x 0.75 m W x 1.0 m H have been constructed Oct, 2016 to March, 2017. Two siltation ponds are constructed and 5 Check dams in Block No B (Reema Gadara ). Cost, Rs. 1,21000/-
17	Vehicular emissions shall 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 mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be over loaded	Mineral is transported by trucks duly packed in bags and covered with tarpaulins.
18	The proponent shall not carry out drilling and blasting operations	No drilling & blasting is done.
19	Mineral handling are shall be provided with the 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	Water spraying is done during summer on waste dumps, mule tracks & mining pits.
20	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and waste water generated during the mining operation.	Septic tank constructed for workers colony in their colony area.

21	Pre Placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Records of medical examination are maintained & 93 of workers medically examined in 2017, regularly medical examination camps were conducted as per schedule & no Industrial disease detected.
22	Provision shall be made for the housing of construction labour within the site with all necessary infrastructures and facilities such as fuel for cooking ,mobile toilets STP , safe drinking water ,medical health care ,crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project .	Provision for housing of mining labour with fuel for colony, sanitary toilets, drinking water, medical health care are available.
23	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered flora as well endangered fauna namely leopard etc. spotted in the study area. Action plan for conservation of flora and fauna prepared shall be implemented in consultation with the state forest and wildlife department .All the safeguard measures brought out in the wild life conservation plan so prepared specific to this project site shall be effectively implemented .Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Ministry of Environment & Forests and its Regional office, Lucknow.	Flora & fauna conservation plan submitted to forest department and implementation work done as per wild life conservation act.
24	The critical parameters such as such as RSPM (Particulate matter with size less than 10 micron i.e, PM 10) NOx in the ambient air with in the impact zone shall be monitored periodically .further ,quality of discharged water shall also be monitored( TDS, DO, pH, TSS ). The monitored dat shall be uploaded on the website of the company as well as displayed on display board at the project site at a suitable location near the main gate of the company in public domain .The circular No . J- 20012 /1/2006- IA.II(M) dated 27.05.2009 issued by Ministry of Environment & Forests., which is available on the website of the ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regards for its compliance .	Environmental analysis reports are periodically submitted to MoEF & UEPPCB.
25	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.	Will be complied with.

**B. General conditions**

S. No	General conditions	Status
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	No change made.
2	No change in the calendar plan including excavation, quantum of mineral soapstone and waste should be made.	Noted.
3	Four ambient air quality monitoring stations should be established in the core & buffer zone for RSPM(Particulate matter with size less than 10 micron i.e, PM 10) NOx monitoring. Location of the station should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the state pollution control board.	Periodically monitoring is done.  Latest monitoring was done in November – 2016 all parameters are within CPCB Norms <b>Annexure III.</b>
4	Data on ambient air quality RSPM( Particulate matter with size less than 10 micron i.e, PM 10) NOx should be regularly submitted to the Ministry of Environment & Forests including its Regional office located at Lucknow and the state pollution control board /central pollution control board once in six months.	Reports of ambient air quality is sent regularly to MoEF.
5	Fugitive dust emissions from all the sources should be controlled regularly .water spraying arrangements on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Water spraying is done regularly.
6	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc should be provided with ear plugs / muffs.	Noise day data varies from 57.8 to 45.2 dB (A) & night time noise is varies from 60.1 to 42.1 dB (A). Noise levels are regularly monitored which are within prescribed limits <b>Annexure No. V.</b>
7	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 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	No industrial waste water is generated in the mining area and there is a zero discharge of pollutants.
8	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.	No drilling & blasting is required & generation of dust is very low. Necessary protective measures are taken. 85 Workers are provided on the job vocational training on safety & health aspects before engaging

	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	<p>in mining operations and regularly vocational training programs is being done and Cost of Awareness and training programme are Rs 128,467/-.</p> <p>General health check up of 93 workers have been done in the year 2017 &amp; no Industrial disease detected and Cost of Occupational health monitoring is Rs 1114935/.</p> <p><b>Annexure No VI.</b></p>
9	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.	<p>N.S. Cor has hired the services of Wolkem Consultancy Services, A division of Wolkem India Limited having necessary “<b>Environmental and Chemical Testing Laboratory</b>” Wolkem India Limited, Udaipur is accredited by Ministry of Environment &amp; Forests and Climate Change (<b>MoEFCC</b>) &amp; National Accreditation Board for Testing and Calibration Laboratories (<b>NABL</b>). Accreditation certificate is allotted <b>T – 2016 (Chemical)</b> and <b>T-3512 (Biological)</b> for Mineral testing, Environmental data sampling &amp; testing for Ambient Air quality, Stack emission, Water &amp; waste water, Soil &amp; Noise etc .A Wolkem Consultancy Services is approved by NABET for Sector mining of minerals including Opencast /underground mining, Mineral beneficiation including pelletisation , Metallurgical Industries , Cement plants , Chemical Fertilizers , Pesticides industry and pesticide specific intermediates (excluding formulations), Synthetic organic chemical industry, Building and large construction projects including shopping malls, multiplexes, commercial complexes, housing estates, hospitals, institutions,&amp; Townships and Area development projects</p> <p>Environment Management cell having suitable qualified personnel at the mine are taking care of Environmental protection activity of at and around mine.</p>
10	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Lucknow	At <b>annexure No VII</b> details of cost to be incurred on environmental protection measures are given for year 2016-17. Rs 52,98,644/- are spent for Environmental Protection measures for year 2016-17.
11	The project authorities should inform to the	This is an ongoing mining project.

	Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	
12	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information / monitoring reports	Details are submitted to regional office of MoEF&CC.
13	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, Lucknow, Central Pollution Control Board and State Pollution Control Board.	Reports are submitted.
14	A copy of clearance letter shall be sent by the proponent to concerned Panchayat / ,Zila Parisas /Municipal corporation ,urban local body & the local NGO, if any, from whom suggestion/ representation, if any, was received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Work completed.
15	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector`s office/ Tehsildar`s Office for 30 days.	Work completed.
16	The environmental statement for each financial year ending 31 <sup>st</sup> March in form – V as is mandated to be submitted by the project proponent to the concerned state pollution control board as prescribed under the environment (Protection) Rules ,1986 , as amended subsequently ,shall also be put on the website of the company along with the status of compliance of environment clearance conditions and shall also be sent to the regional office of the ministry of environment and forests ,Lucknow by e- mail.	The Environmental statement for Financial year 2016-2017 in form V was submitted in time.
17	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 also at web site of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should	Work completed.



	be forwarded to the Regional Office of this Ministry located Lucknow.	
18	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	NA
19	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	NA
20	The above conditions will be enforced inter-alia, under the provisions 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 made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Rajasthan and any other Court of Law relating to the subject matter.	Will be complied as per norms
21	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	No, appeal is made.

**M/s N.S. Corporation**



**S.L. Srivastava  
(Authorized signatory)**

C.c

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
2. The Regional Officer, Uttaranchal Environment Protection & Pollution Control Board, Awas Vikas colony, Haldwani ,(Nainital)Pin -263139.
3. The Member Secretary, Uttaranchal Environment Protection & Pollution Control Board, 29/20, Nemi Road, Dalanwala, Dedradun, Uttarakhand.