

No. J-11015/339/2009-IA.II(M)
Government of India
Ministry of Environment and Forests
IA Division

Paryavaran Bhawan
CGO Complex, Lodhi Road,
New Delhi-110 003

Dated the 10th February, 2011

To

M/s Uttarakhand Forest Development Corporation
Aranya Vikas Bhawa,
73, Nehru Road,
Dehradun-248 001
E-mail: uafdemd@yahoo.com
Vanvikas12@gmail.com

Subject: Collection of Minor Mineral from Song-1 River by M/s Uttarakhand Forest Development Corporation, Tehsil and District Dehradun, Uttarakhand -environmental clearance regarding.

Sir,
This has reference to letter No. U-2630/Environmental clearance dated 18.08.2010 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 18.01.2010 for undertaking detailed EIA study for the purpose of obtaining environmental clearance. The proposal is for collection of 6,75,000 tonnes per annum (TPA) of minor minerals (Reta and Bajri) from the bed of Song-1 river.

2. The total mine lease area of the project is 225ha, which is a forestland. The mining area in the Song-1 River has a stretch of 5.65km, lying in the Ganga River basin. Out of the total allotted area of 225ha, the minor mineral collection will be carried out from 50% of the total area i.e., 112.5ha leaving 25% area on each side of the river banks for better channelization of the water during the rainy season and to protect the nearby forestland and habitation from floods. The area available for mining would therefore be 112.5ha along the centre of the river flow which is devoid of any flora.

3. No national park and wildlife sanctuary are reported to be located in the core and buffer zone of the mine. The project area falls within the Shivalik Elephant Reserve. The Rajaji National Park is reported to be located at a distance of 21km from the project boundary. The Chief Wildlife Warden, Government of Uttarakhand vide letter No. SHI-1317/12-1 dated 20.12.2010 has accorded clearance for collection of minor mineral from the Song-1 river in an area of 225ha. Seven Reserve Forests namely the Saura RF (0.5km), the

Dwara RF(1km), the Thano RF (1km), the Lachhiwalal RF (2km), the Poted (3km), the Raipur RF(7km), and the Malkot RF(10km) are reported to be located in the buffer zone of the mine

4. The mine working will be opencast by manual method without involving drilling and blasting. The mining is confined to extraction of sand, reta and bajri from the river bed. The reta and bajri will be collected by sieving the bed material using hand tools like shovel, pan, sieve etc. Mining will be carried out only during the day time. The targetted production capacity of the mine is 6.75lakh TPA (3.75Lakh m³ per annum). The mined out material will be transported to their respective uses locations via private agencies using their own transport. Computerized weigh bridges have been installed in order to check and monitor moment of material. The proposed mining area is reported to lie between 30°13'23.02" to 30°16'35.06" N Latitude and 77°40.43" and 78° 07' 28.63" E Longitude in topo sheet No. 55. The elevation from the sea level of the proposed area is reported as 54m. The river flow is bleak most of the year except during the monsoon season. Mining will be carried out upto a depth of 1.5m. No pumping of water from the river or from groundwater is envisaged.

5. The public hearing of the project was held on 07.07.2010 for collection of minor minerals from Song -1 River over mine lease area of 225ha. The Principal Secretary, Government of Uttarakhand vide letter No 2535/2009/KHA/2009/10 dated 23.10.2010 informed that collection of minor minerals from the river bed does not require mine plan approval under Uttarakhand Minor Mineral Concession Rules 2001. The Ministry of Environment and Forests has accorded combined in-principle approval under Forest (Conservation) Act of 26.05.2009 and 02.06.2009 for an area of 1325ha. The proponent has stated that there is no court case to the project or related activity.

6. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and the Doon Valley Notification 1989 as amended on 13.12.2007 and hereby accords environmental clearance under the provisions thereof to the above mentioned Minor Mineral Mining Project of M/s Uttaranchal Forest Development Corporation for collection of 6,75,000tonnes of sand, reta and bajri (minor minerals) from Song-1 River bed by the opencast manual method involving less than 1ha area of 225ha, subject to implementation of the following conditions and environmental safeguards.

A. Specific conditions

- (i) The project proponent shall obtain Consent to Establish and Operate from the Uttarakhand Environment Protection & Control Board and effectively implement all the conditions stipulated therein.

- (i) Requisite prior clearance from the Standing Committee of the National Board for Wildlife shall be obtained due to location of the project area within Shivalik Elephant Reserve, before starting any activity relating to the project at site. All the conditions stipulated by the Standing Committee shall be effectively implemented in the project. It shall be noted that this clearance does not necessarily implies that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authorities on its merit and decision taken. The investment made in the project, if any based on environmental clearance granted to the project, in anticipation of the clearance from wildlife clearance shall be entirely at the cost and risk of the project proponent and Ministry of Environment and Forests shall not be responsible in this regard in any manner.
- (iii) Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.
- (iv) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
- (v) Environmental clearance is subject to grant of forestry clearance.
- (vi) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left unworked, distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season.
- (vii) The project proponent shall identify the degraded forest area within the mine lease in consultation with the State Forest Department and undertake plantation/afforestation work by planting the native species.
- (viii) 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 and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (ix) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this

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activity the hydro-geological regime of the surrounding area shall be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area 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 Office, Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.

- (x) The project proponent shall obtain necessary prior permission from the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xi) Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
- (xii) Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xiii) No drilling and blasting operation shall be carried out.
- ✓ (xiv) Mineral handling area 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.
- (xv) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, special health examination of the workers should be drawn and carried out accordingly.
- (xvi) Provision shall be made for the housing of construction labour on the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring change of river course, if any and report submitted to the Ministry of Environment and Forests and its Regional Office located at Lucknow.

The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM_{10}) and NO_x in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH, Fecal Coliform and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a 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 and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

- (ix) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant etc. found in the study area. Action plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife 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 Regional Office of the Ministry of Environment and Forests, Lucknow.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral, bauxite, bajri and sand (minor mineral) and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM_{10}) and NO_x monitoring. Location of the stations 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.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM_{10}) & NO_x should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.

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(v) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading & unloading, and at transfer points should be provided and proper maintained.

(vi) Personnel working in dusty areas should wear protective devices and they should also be provided with adequate information on safety and health aspects.

Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to dust and take corrective measures, if needed.

(vii) A separate environmental management cell with suitable personnel should be set-up under the control of a Senior Executive will report directly to the Head of the Organization.

(viii) The funds earmarked for environmental protection measures kept in separate account and should not be diverted for other purposes. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Lucknow.

(ix) The project authorities should inform to the Regional Office at Lucknow regarding date of financial closures and final approval of project by the concerned authorities and the date of start of development work.

(x) The Regional Office of this Ministry located at Lucknow shall ensure compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.

(xi) The project proponent shall submit six monthly reports on the compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as in electronic mail) to the Ministry of Environment and Forests, its Regional Office at Lucknow, the respective Zonal Office of Central Pollution Control Board. The proponent shall update the compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.

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(xii) A copy of the clearance letter shall be sent by the proponent to the concerned Panchayat, Zila Parishad/ Municipal Corporation Urban Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

(xiii) The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the District office/ Tehsildar's Office for 30 days.

(xiv) The environmental statement for each financial year ending 31st 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 subsequent thereto, shall also be put on the website of the company along with the details of compliance of environmental clearance conditions and shall be forwarded to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.

(xv) 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 <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.

7. The Ministry or any other competent authority may alter/ modify the above conditions or stipulate any further condition for the purpose of environment protection.

8. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

9. 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, the Public Liability Insurance Act, 1991 along with their amendments and orders made thereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Uttarakhand and any other Court of Law relating to the subject matter.

(SATISH K. GARG) Scientist I

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Mines & Geology, Government of Uttarakhand, Secretariat, Dehradun.
- (iii) The Secretary, Department of Environment, Government of Uttarakhand, Secretariat, Dehradun.
- (iv) Chief Wildlife Warden, Government of Uttarakhand, Secretariat, Dehradun.
- (v) The Chief Conservator of Forests, Central Region, Ministry of Environment and Forests, B-1/72, Sector-A, Aliganj, Lucknow-226006.
- (vi) The Chairman, Central Pollution Control Board, Parivesh Bhavan cum-Office complex, East Arjun Nagar, New Delhi-110002.
- (vii) The Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (viii) The Chairman, Uttarakhand Environment Protection & Pollution Control Board, E-115, Nehru Colony, Hardwar Road, Dehradun, Uttarakhand.
- (ix) The Controller General, Indian Bureau of Mines, Indira Bhawan, Civil Lines, Nagpur-440 001.
- (x) The District Collector, Dehradun District, Uttarakhand.
- (xi) EI Division, Ministry of Environment and Forests, Paryavaran C. G. O. Complex, Lodi Road, New Delhi-110 003.
- (xii) Monitoring File.
- (xiii) Guard File.
- (xiv) Record File.

No. J-11015/340/2009-IA.II(M)
Government of India
Ministry of Environment and Forests
IA Division

Paryavaran Bhawan
CGO Complex, Lodhi Road,
New Delhi-110 003

Dated the 10th February, 2011

To

M/s Uttaranchal Forest Development Corporation
Aranya Vikas Bhawa,
73, Nehru Road,
Dehradun-248 001
E-mail: uofdemd@yahoo.com
Vanvikas12@gmail.com

Subject: Collection of Minor Mineral from River Song-2 by M/s
Uttaranchal Forest Development Corporation, Tehsil and
District Dehradun, Uttarakhand -environmental clearance
regarding.

Sir,

This has reference to letter No. U-2629/Environmental clearance dated 18.08.2010 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 18.01.2010 for undertaking detailed EIA study for the purpose of obtaining environmental clearance. The proposal is for collection of 7,65,000 tonnes per annum (TPA) of minor minerals (Reta and Bajri) from the bed of Song river.

2. The total mine lease area of the project is 273ha, which is a forestland. The mining area in the Song-2 river has a stretch of 6.25km lying in the Ganga River basin. Out of the total allotted area of 273ha, the minor mineral collection will be carried out from 50% of the total area i.e., 136.5ha. The area available for mining would therefore be 136.5ha along the centre of the river flow which is devoid of any flora.

3. No national park and wildlife sanctuary are reported to be located in the core and buffer zone of the mine. The project area falls under Shivalik Elephant Reserve. The Rajaji National Park is reported to be located at a distance of 18km from the project boundary. The Chief Wildlife Warden, Government of Uttarakhand vide letter No. SHL-1317/12-dated 28.12.2010 has accorded clearance for collection of minor mineral from the Song-2 river in an area of 273ha. Seven RFs namely the Lachhiwatal RF (2km), the Kans RF (2km), the Dwara RF (3km), the Paled RF (3km), the Motichur RF (4km) and the Malhotra RF (9km) are reported to be located in the buffer zone of the mine.

4. The mine working will be opencast by manual method without drilling and blasting. The mining is confined to extraction of sand, bajri from the river bed. The reta and bajri will be collected by sieving of river bed material using hand tools like shovel, pan, sieve etc. Mining will be carried out only during the day time. Extraction of river bed material will be completely stopped during the monsoon season. The targetted production capacity of the mine is 7.65 lakh TPA (4.25 Lakh m³/annum). The mined out material will be transported to their respective uses locations via private agencies using their own transport. Computerized weigh bridges have been installed in order to check and monitor moment of material. The proposed mining area is reported to lie between 30°13'46.45" to 30°11'18.94" N Latitude and 78°08'56.92" and 78°07'53.34" E Longitude in topo sheet No. 53J/4. The elevation from the sea level of the proposed area is reported as 595m. The river flow is bleak most of the year except during the monsoon season. Mining will be carried out upto a depth of 1.5m. No pumping of water from the river or from groundwater is envisaged.

5. The public hearing of the project was held on 10.07.2010 for collection of minor minerals from Song River-2 over mine lease area of 273ha. The Principal Secretary, Government of Uttarakhand vide letter No. 2536/VII-I/16-KHA/2009/10 dated 23.10.2010 informed that collection of minor mineral from the river bed does not require mine plan approval under Uttarakhand mineral concession rules 2001. The Ministry of Environment and Forests has accorded combined in-principle approval under Forest (Conservation) Act 26.05.2009 and 02.06.2009 for an area of 1325ha. The proponent has stated that there is no court case to the project or related activity.

6. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and the Doon Valley Notification 1989 as amended on 13.12.2007 and hereby accords environmental clearance under the provisions thereof to the above mentioned Minor Mineral Mining project of M/s Uttarakhand Forest Development Corporation for an annual collection of 7,65,000 tonnes (7.65 lakh tonnes) of sand, reta and bajri (minor mineral) from the river bed of the Song-2 River by the opencast method involving total mining lease area of 273ha, subject to implementation of the following conditions and environmental safeguards.

A. Specific conditions

(i) The project proponent shall obtain Consent to Establish and Consent to Operate from the Uttarakhand Environment Protection & Pollution Control Board and effectively implement all the conditions stipulated therein.

(ii) Requisite prior clearance from the Standing Committee of the National Board for Wildlife shall be obtained due to location of the project within Shivalik Elephant Reserve, before starting any activity related to the project at site. All the conditions stipulated by the Standing

Committee shall be effectively implemented in the project. It shall be noted that this clearance does not necessarily imply that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authorities on merit and decision taken. The investment made in the project, if based on environmental clearance granted to the project, in anticipation of the clearance from wildlife clearance shall be entirely at the cost and risk of the project proponent and Ministry of Environment and Forests shall not be responsible in this regard in any manner.

- (iii) Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.
- (iv) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
- (v) Environmental clearance is subject to grant of forestry clearance.
- (vi) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard, clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left unworked, distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season.
- (vii) The project proponent shall identify the degraded forest area within the mine lease in consultation with the State Forest Department and undertake plantation/afforestation work by planting the native species.
- (viii) 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 and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (ix) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area 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

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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 Office Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.

- (x) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xi) Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
- (xii) Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xiii) No drilling and blasting operation shall be carried out.
- (xiv) Mineral handling area 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.
- (xv) 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.
- (xvi) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel, cooking, mobile toilets, mobile 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.
- (xvii) Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring the change of river course, if any and report submitted to the Ministry of Environment and Forests and its Regional Office located at Lucknow.
- (xviii) The critical parameters such as RSPM (Particulate matter with size than 10 micron i.e., PM_{10}) and NO_x in the ambient air within the zone shall be monitored periodically. Further, quality of discharged

shall also be monitored [(TDS, DO, PH, Fecal Coliform and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a 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 and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

- (xix) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant etc. found in the study area. Action plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife 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 Regional Office of the Ministry of Environment and Forests, Lucknow.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral reta, bajri and sand (minor mineral) and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x monitoring. Location of the stations 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.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) & NO_x should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.
- (v) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

Personnel working in dusty areas should wear protective masks and they should also be provided with adequate training on safety and health aspects.

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.

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.

(vii) 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 of Environment and Forests and its Regional Office located at Lucknow.

(ix) The project authorities should inform to the 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.

(x) 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.

(xi) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by mail) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of Central Pollution Control Board, the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.

A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's Office for 30 days.


(xiv) The environmental statement for each financial year ending 31st 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 environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.

(xv) 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 <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.

7. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

8. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

9. 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 thereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Uttarakhand and any other Court of Law relating to the subject matter.


(SATISH.C.GARKOTI)
Scientist 'F'

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Mines & Geology, Government of Uttarakhand, Secretariat, Dehradun.
- (iii) The Secretary, Department of Environment, Government of Uttarakhand, Secretariat, Dehradun.
- (iv) Chief Wildlife Warden, Government of Uttarakhand, Secretariat, Dehradun.

- (v) The Chief Conservator of Forests, Central Board of
Environment and Forests, B-1/72, Sector-A, Aligarh.
- (vi) The Chairman, Central Pollution Control Board, Paryavaran Bhavan
cum-Office complex, East Arjun Nagar, New Delhi-110002.
- (vii) The Member Secretary, Central Ground Water Authority, A-2, W3,
Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (viii) The Chairman, Uttarakhand Environment Protection & Pollution Control
Board, E-115, Nehru Colony, Hardwar Road, Dehradun, Uttarakhand.
- (ix) The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil
Lines, Nagpur-440 001.
- (x) The District Collector, Dehradun District, Uttarakhand.
- (xi) E1 Division, Ministry of Environment and Forests, Paryavaran Bhavan,
C. G. O. Complex, Lodi Road, New Delhi-110 003.
- (xii) Monitoring File.
- (xiii) Guard File.
- (xiv) Record File.

No. J-11015/341/2009-IA.II(M)
Government of India
Ministry of Environment and Forests
IA Division

Paryavaran Bhawan
CGO Complex, Lodhi Road,
New Delhi-110 003

Dated the 15th, April, 2011

M/s Uttaranchal Forest Development Corporation
Aranya Vikas Bhawan,
73, Nehru Road,
Dehradun-248 001
E-mail: uafdemd@yahoo.com
Vanvikas12@gmail.com

Subject: Collection of Minor Mineral (Reta, Bajri and Boulders) from the river bed of River Song-3 by M/s Uttaranchal Forest Development Corporation, located in Dehradun Forest Division, District Dehradun, Uttarakhand -environmental clearance regarding.

Sir,

This has reference to your letter No.U-3514/32-29 dated 12.10.2010 and subsequent letter dated 14.01.2011 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 18.01.2010 for undertaking detailed EIA study for the purpose of obtaining environmental clearance. The proposal is for collection of 5,40,000 tonnes per annum (TPA) of minor minerals (Reta, Bajri and Boulders) from the river bed of the Song River.

2. The total mine lease area of the project is 270ha, which is a forestland covering a stretch of 6.5km length, lying in the Ganga River basin. Out of the total allotted area of 270ha, the minor mineral collection will be carried out from 50% of the total area i.e., 135ha. The area available for mining would therefore be 135ha along the centre of the river flow which is devoid of any flora.

3. The project area falls under the Shivalik Elephant Reserve. The Rajaji National Park is reported to be located at a distance of 1.0km towards South West from the mine lease. In support of this an authenticated map has been provided through the Chief Wildlife Warden, Government of Uttarakhand. However, from the map, it appears that the boundary of the Rajaji National Park is just abutting the mine lease boundary. Further, the Chief Wildlife Warden, Government of Uttarakhand vide letter No.SHI.-1317/12-1 dated 28.12.2010 has accorded clearance for collection of minor mineral from the Song-3 River in an area of 270ha. Five Reserve Forests namely the Kansrao RF (adjacent to East, West and South of ML), the Barkota RF (3.5km East), the Lachhiwalal RF (3.3km North West) and the Motichur RF (3.8km South) and the Thano RF (4.2km North West) are reported to be located in the buffer zone of the mine.

...2/-

The mining will be opencast by manual method without in the river bed. The mining is confined to extraction of reta, bajri and boulders from the river bed. The reta and bajri will be collected by sieving using hand tools like shovel, pan, sieve etc. Mining will be carried out during the day time. Extraction of river bed material will be completed during the monsoon season. The targetted production capacity is 5.4 lakh TPA (3 Lakh m³ per annum). The mined out material will be transported to their respective uses locations via private agencies using motor transport. Computerized weigh bridges have been installed in order to monitor moment of material. The proposed mining area is located between 30°08'18.87" to 30°05'36.60" N Latitude and 78°02'33"E Longitude in topo sheet No. 531/4. The elevation of the proposed area is reported as 454m. The river flow is intermittent during the monsoon season. Mining will be carried out upto 1.5m. No pumping of water from the river or from any source is envisaged.

The public hearing of the project was held on 22.09.2010 for collection of minor minerals from Song River-3 over mine lease area of 270ha. The Principal Secretary, Government of Uttarakhand vide letter No.2536/VII-I/163-KHA/2009/10 dated 23.10.2010 informed that collection of minor mineral from the river bed does not require mine plan approval under Uttarakhand Minor Mineral Concession Rules 2001. The Ministry of Environment and Forests has accorded combined in-principle approval under Forest (Conservation) Act, 1980 for diversion of 1325ha forestland on 26.05.2009 and 2nd June, 2009 for collection of sand bajri and boulders from the river beds in the District Dehradun. The proponent has stated that there is no court case to the project or related activity.

6. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and the Doon Valley Notification, 1989 as amended on 13.12.2007 and hereby accords environmental clearance under the provisions thereof to the above mentioned Minor Mineral Mining Project of M/s Uttaranchal Forest Development Corporation for an annual collection of 5,40,000 tonnes (5.4 lakh tonnes) of reta, bajri and boulders (minor mineral) from the river bed of the Song-3 River by the opencast manual method involving total mining lease area of 270ha, subject to Implementation of the following conditions and environmental safeguards.

A. Specific conditions

- (i) The project proponent shall obtain Consent to Establish and Consent to Operate from the Uttarakhand Environment Protection & Pollution Control Board and effectively implement all the conditions stipulated therein.
- (ii) Requisite prior clearance from the Standing Committee of the National Board for Wildlife shall be obtained due to location of the project area in proximity to Rajaji National Park and also within Shivalik Elephant Reserve.

before starting any activity relating to the project at site. All the conditions stipulated by the Standing Committee shall be effectively implemented in the project. It shall be noted that this clearance does not necessarily imply that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authorities on its merit and decision taken. The investment made in the project, if any based on environmental clearance granted to the project, in anticipation of the clearance from wildlife clearance shall be entirely at the cost and risk of the project proponent and Ministry of Environment and Forests shall not be responsible in this regard in any manner.

- (iii) Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.
- (iv) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
- (v) Environmental clearance is subject to grant of forestry clearance.
- (vi) The mine working shall be restricted to only the upper portion of the mine lease on the Northern side in such a manner that there is at least 1.0km distance between the closest boundary of the Rajaji National Park and the working area of the mine lease.
- (vii) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left unworked, distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season.
- (viii) The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
- (ix) The project proponent shall identify the degraded forest area within the mine lease in consultation with the State Forest Department and undertake plantation/afforestation work by planting the native species.
- (x) 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 and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (xi) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity

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The hydrological regime of the surrounding area shall not be affected. Monitoring of ground water level and quality shall be carried out in the lease area by establishing a network of existing wells and piezometers during the mining operation. The periodic monitoring shall be carried out at least four times in a year - pre-monsoon (April-May), post-monsoon (November) and winter (January); once in consultation with the State Ground Water Authority and the data thus collected shall be submitted to the Ministry of Environment and Forests and its Central Ground Water Board. If at any stage, it is found that the groundwater table is getting depleted due to the mining operation, appropriate measures shall be carried out.

- (xii) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xiii) Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
- (xiv) Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xv) No drilling and blasting operation shall be carried out.
- (xvi) Mineral handling area 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.
- (xvii) 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.
- (xviii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile 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.
- (xix) Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring the change of river course, if any and report submitted to the Ministry of Environment and Forests and its Regional Office located at Lucknow.
- 5/-

(x) The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH, Fecal Coliform and Total Suspended Solids (TSS))]. The monitored data shall be uploaded on the website of the company as well as displayed on a 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 and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

(xxi) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant etc. found in the study area. Action plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife 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 Regional Office of the Ministry of Environment and Forests, Lucknow.

(xxii) The project proponent shall get a siltation study carried out within one year through some Expert Agency like Central Water Commission to determine the siltation load in the river bed so that there is no over exploitation of river bed material at any point of time. The mineral to be removed shall be determined based on siltation load. A copy of siltation study so carried out shall be submitted to the Ministry of Environment and Forests and its Regional Office Lucknow.

B. General conditions

(i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.

(ii) No change in the calendar plan including excavation, quantum of mineral, retia, bajri and boulders (minor mineral) and waste should be made.

(iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x monitoring. Location of the stations 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.

8/6/-

(v) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) & NOX should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.

(v) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

(vi) 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 program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

(vii) 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.

(viii) 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 of Environment and Forests and its Regional Office located at Lucknow.

(ix) The project authorities should inform to the 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.

(x) 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.

(xi) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.

27/-

(xii) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

(xiii) The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.

(xiv) The environmental statement for each financial year ending 31st 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 environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.

(xv) The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and 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 <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.

7. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

8. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.


9. 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 thereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Uttarakhand and any other Court of Law relating to the subject matter.

(SATISH.C.GARKOTI)
Scientist 'F'

8/8/-

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Mines & Geology, Government of Uttarakhand, Secretariat, Dehradun.
- (iii) The Secretary, Department of Environment, Government of Uttarakhand, Secretariat, Dehradun.
- (iv) Chief Minister, Government of Uttarakhand, Secretariat, Dehradun.
- (v) Secretary, C.E. Dehradun.
- (vi) The Chief Conservator of Forests, Central Region, Ministry of Environment and Forests, 110077, Sector-A, Alipur, New Delhi-110020.
- (vii) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-Cum-Office, Connaught Place, New Delhi-1100032.
- (viii) The Member Secretary, Central Pollution Control Authority, A-2, W3, Curzon Road, Barakhamba, New Delhi-110003.
- (ix) The Chairman, Uttarakhand Environmental Protection & Pollution Control Board, E-2, Connaught Place, Dehradun, Uttarakhand.
- (x) The District Mineral Officer, Mines, Indra Bhavan, Civil Lines, Nagpur-440001.
- (xi) The District Collector, Dehradun District, Uttarakhand.
- (xii) EI Division, Ministry of Environment and Forests, Paryavaran Bhavan, C. G. O. Complex, New Delhi-110003.
- (xiii) Monitoring File.
- (xiv) Guard File.
- (xv) Record File.


15/04/2011
(SATISH.C.GARKOTI)
Scientist 'F'

No. J-11015/342/2009-IA.II(M)
Government of India
Ministry of Environment and Forests
IA Division

Paryavaran Bhawan
CGO Complex, Lodhi Road,
New Delhi-110 003

Dated the 15th April, 2011

M/s Uttaranchal Forest Development Corporation
Aranya Vikas Bhawan,
73, Nehru Road,
Dehradun-248 001
E-mail: uafdemd@yahoo.com
Vanvikas12@gmail.com

Subject: Collection of Minor Mineral (Reta, Bajri and Boulders) from the river bed of River Jakhan-1 by M/s Uttaranchal Forest Development Corporation, located in Dehradun Forest Division, District Dehradun, Uttarakhand -environmental clearance regarding.

Sir,

This has reference to your letter No.U-3512/32-29 dated 12.10.2010 and subsequent letter dated 14.01.2011 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 18.01.2010 for undertaking detailed EIA study for the purpose of obtaining environmental clearance. The proposal is for collection of 5,85,000 tonnes per annum (TPA) of minor minerals (Reta, Bajri and Boulders) from the river bed of the Jakhan River.

2. The total mine lease area of the project is 195ha, which is a forestland covering a stretch of 6.4km length, lying in the Ganga River basin. Out of the total allotted area of 195ha, the minor mineral collection will be carried out from 50% of the total area i.e., 97.5ha. The area available for mining would therefore be 97.5ha along the centre of the river flow which is devoid of any flora.

3. No national park and wildlife sanctuary are reported to be located in the core and buffer zone of the mine. The project area falls under the Shivalik Elephant Reserve and the Doon Valley Reserve; The Rajaji National Park is reported to be located at a distance of 12.3km from the project boundary. In support of this an authenticated map has been provided through the Chief Wildlife Warden, Government of Uttarakhand. Further, the Chief Wildlife Warden, Government of Uttarakhand vide letter No. SHI-1317/12-1 dated 28.12.2010 has accorded clearance for collection of minor mineral from the Jakhan-1 river in an area of 195ha. Three Reserve Forests namely the Thano RF (adjacent to West of ML), the RF (adjacent to East of ML) and the Tehri RF (9.5km SE) are reported to be located in the buffer zone of the mine.

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4. The mine working will be opencast by manual method without involving drilling and blasting. The mining is confined to extraction of reta, bajri and boulders from the river bed. The reta and bajri will be collected by sieving of river bed material using hand tools like shovel, pan, sieve etc. Mining will be carried out only during the day time. Extraction of river bed material will be completely stopped during the monsoon season. The targetted production capacity of the mine is 5.85 lakh TPA (3.25 Lakh m³ per annum). The mined out material will be transported to their respective uses locations via private agencies using their own transport. Computerized weigh bridges have been installed in order to check and monitor moment of material. The proposed mining area is reported to lie between 30°12'56.82" to 30°11'19.59" N Latitude and 78°18'38.02" to 78°12'14.37"E Longitude in topo sheet No. 53J/4. The elevation from the sea level of the proposed area is reported as 567m. The river flow is bleak most of the year except during the monsoon season. Mining will be carried out upto a depth of 1.5m. No pumping of water from the river or from groundwater is envisaged.

5. The public hearing of the project was held on 24.09.2010 for collection of minor minerals from Jakhan-1 River over mine lease area of 195ha. The Principal Secretary, Government of Uttarakhand vide letter No.2536/VII-I/163-KHA/2009/10 dated 23.10.2010 informed that collection of minor mineral from the river bed does not require mine plan approval under Uttarakhand Minor Mineral Concession Rules 2001. The Ministry of Environment and Forests has accorded combined in-principle approval under Forest (Conservation) Act, 1980 for diversion of 1325ha forestland on 26.05.2009 and 2nd June, 2009 for collection of sand bajri and boulders from the river beds in the District Dehradun. The proponent has stated that there is no court case to the project or related activity.

6. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and the Doon Valley Notification, 1989 as amended on 13.12.2007 and hereby accords environmental clearance under the provisions thereof to the above mentioned Minor Mineral Mining Project of M/s Uttaranchal Forest Development Corporation for an annual collection of 5,85,000 tonnes (5.85 lakh tonnes) of reta, bajri and boulders (minor mineral) from the river bed of the Jakhan-1 River by the opencast manual method involving total mining lease area of 195ha, subject to implementation of the following conditions and environmental safeguards.

A. Specific conditions

- (i) The project proponent shall obtain Consent to Establish and Consent to Operate from the Uttarakhand Environment Protection & Pollution Control Board and effectively implement all the conditions stipulated therein.
- (ii) Requisite prior clearance from the Standing Committee of the National Board for Wildlife shall be obtained due to location of the project area within Shivalik Elephant Reserve, before starting any activity relating to the

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project at site. All the conditions stipulated by the Standing Committee shall be effectively implemented in the project. It shall be noted that this clearance does not necessarily implies that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authorities on its merit and decision taken. The investment made in the project, if any based on environmental clearance granted to the project, in anticipation of the clearance from wildlife clearance shall be entirely at the cost and risk of the project proponent and Ministry of Environment and Forests shall not be responsible in this regard in any manner.

- (iii) Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 450 of 2004, as may be applicable to this project.
- (iv) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
- (v) Environmental clearance is subject to grant of forestry clearance.
- (vi) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left unworked, distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season.
- (vii) The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
- (viii) The project proponent shall identify the degraded forest area within the mine lease in consultation with the State Forest Department and undertake plantation/afforestation work by planting the native species.
- (ix) 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 and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (x) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area 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),

24/-

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 Office Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.

- (xi) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xii) Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
- (xiii) Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xiv) No drilling and blasting operation shall be carried out.
- (xv) Mineral handling area 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.
- (xvi) 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.
- (xvii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile 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.
- (xviii) Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring the change of river course, if any and report submitted to the Ministry of Environment and Forests and its Regional Office located at Lucknow.
- (xix) The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH, Fecal Coliform and Total Suspended Solids (TSS))]. The monitored data shall be uploaded on the website of the

company as well as displayed on a display board at a suitable location near the main gate of the Company. Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2006 of Environment and Forests, which is available on the Ministry www.envfor.nic.in shall also be referred in this regard for compliance.

- (xx) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant etc. found in the study area. Action plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife 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 Regional Office of the Ministry of Environment and Forests, Lucknow.
- (xxi) The project proponent shall get a siltation study carried out within one year through some Expert Agency like Central Water Commission to determine the siltation load in the river bed so that there is no over exploitation of river bed material at any point of time. The mineral to be removed shall be determined based on siltation load. A copy of siltation study so carried out shall be submitted to the Ministry of Environment and Forests and its Regional Office Lucknow.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral reta, bajri and boulders (minor mineral) and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x monitoring. Location of the stations 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.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) & NO_x should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.

(v) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

(vi) 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 program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

(vii) 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.

(viii) 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 of Environment and Forests and its Regional Office located at Lucknow.

(ix) The project authorities should inform to the 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.

(x) 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.

(xi) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.

(xii) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

(xiii) The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.

(xiv) The environmental statement for each financial year ending 31st 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 environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.

(xv) The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and 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 <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.

7. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment - protection.

8. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

9. 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 thereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Uttarakhand and any other Court of Law relating to the subject matter.


(SATISH.C.GARKOTI)
Scientist 'F'

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Mines & Geology, Government of Uttarakhand, Secretariat, Dehradun.

28/-

- 5
- (iii) The Secretary, Department of Environment, Government of Uttarakhand Secretariat, Dehradun.
 - (iv) Chief Wildlife Warden, Government of Uttarakhand, Secretariat, Dehradun.
 - (v) Secretary, SCMC, Dehradun.
 - (vi) The Chief Conservator of Forests, Central Region, Ministry of Environment and Forests, B-1/72, Sector-A, Aliganj, Lucknow-226020.
 - (vii) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD cum-Office complex, East Arjun Nagar, New Delhi-1100032.
 - (viii) The Member Secretary, Central Ground Water Authority, A-2, W3, Curzor Road Barracks, K.G. Marg, New Delhi-110001.
 - (ix) The Chairman, Uttarakhand Environment Protection & Pollution Control Board, E-115, Nehru Colony, Hardwar Road, Dehradun, Uttarakhand.
 - (x) The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
 - (xi) The District Collector, Dehradun District, Uttarakhand.
 - (xii) EI Division, Ministry of Environment and Forests, Paryavaran Bhavan, C. G. O. Complex, Lodi Road, New Delhi-110 003.
 - (xiii) Monitoring File.
 - (xiv) Guard File.
 - (xv) Record File.


(SATISH.C.GARKOTI)
Scientist 'F'

No. J-11015/343/2009-IA.II(M)
Government of India
Ministry of Environment and Forests
IA Division

Paryavaran Bhawan
CGO Complex, Lodhi Road,
New Delhi-110 003

Dated the 15th April, 2011

To
M/s Uttaranchal Forest Development Corporation
Aranya Vikas Bhawan,
73, Nehru Road,
Dehradun-248 001
E-mail: uafdemd@yahoo.com
vanvikas12@gmail.com

Subject: Collection of Minor Mineral(Reta, Bajri and Boulders) from the river bed of River Jakhan-2 by M/s Uttaranchal Forest Development Corporation, located in Dehradun Forest Division, District Dehradun, Uttarakhand -environmental clearance regarding.

Sir,
This has reference to your letter No. U-3513/32-29 dated 12.10.2010 and subsequent letter dated 14.01.2011 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 18.01.2010 for undertaking detailed EIA study for the purpose of obtaining environmental clearance. The proposal is for collection of 2,25,000 tonnes per annum (TPA) of minor minerals (Reta, Bajri and Boulders) from the river bed of the Jakhan River.

2. The total mine lease area of the project is 100ha, which is a forestland covering a stretch of 4km length, lying in the Ganga River basin. Out of the total allotted area of 100ha, the minor mineral collection will be carried out from 50% of the total area i.e., 50ha. The area available for mining would therefore be 50ha along the centre of the river flow which is devoid of any flora.

3. The project area falls under the Shivalik Elephant Reserve and the Doon Valley Reserve. The Rajaji National Park is reported to be located in the buffer zone of the mine at a distance of 7.42km towards West from the mine lease. The Chief Wildlife Warden, Government of Uttarakhand vide letter No. SHL-1317/12-1 dated 28.12.2010 has accorded clearance for collection of minor mineral from the Jakhan-2 river in an area of 100ha. Four Reserve Forests namely the Thano RF (adjacent to West of ML), the Barkot RF (adjacent to East of ML), the Thano RF (3.4km North) and the Tehri RF (5.5km East) are reported to be located in the buffer zone of the mine.

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The working will be opencast by manual method without involving blasting. The mining is confined to extraction of reta, bajri and material from the river bed. The reta and bajri will be collected by sieving of material using hand tools like shovel, pan, sieve etc. Mining will be not only during the day time. Extraction of river bed material will be completely stopped during the monsoon season. The targetted production of the mine is 2.25lakh TPA (1.25Lakh m³/annum) of river bed material. Mined out material will be transported to their respective uses locations via state agencies using their own transport. Computerized weigh bridges have been installed in order to check and monitor moment of material. The proposed mining area is reported to lie between 30°11'11.64" to 30°08'33.58" N Latitude and 78°11'58.64" to 78°09'57.44"E Longitude in topo sheet No. 53/4. The elevation from the sea level of the proposed area is reported as 567m. The river flow is bleak most of the year except during the monsoon season. Mining will be carried out upto a depth of 1.5m. No pumping of water from the river or from groundwater is envisaged.

5. The public hearing of the project was held on 29.09.2010 for collection of minor minerals from Jakhan-2 River over mine lease area of 100ha. The Principal Secretary, Government of Uttarakhand vide letter No.2536/VII-I/163-KHA/2009/10 dated 23.10.2010 informed that collection of minor mineral from the river bed does not require mine plan approval under Uttarakhand Minor Mineral Concession Rules 2001. The Ministry of Environment and Forests has accorded combined in-principle approval under Forest (Conservation) Act, 1980 for diversion of 1325ha forestland on 26.05.2009 and 2nd June, 2009 for collection of sand bajri and boulders from the river beds in the District Behradun. The proponent has stated that there is no court case to the project or related activity.

6. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and the Doon Valley Notification, 1989 as amended on 13.12.2007 and hereby accords environmental clearance under the provisions thereof to the above mentioned Minor Mineral Mining Project of M/s Uttaranchal Forest Development Corporation for an annual collection of 2,25,000tonnes(2.25lakh tonnes) of reta, bajri and boulders (minor mineral) from the river bed of the Jakhan-2 River by the opencast manual method involving total mining lease area of 100ha, subject to implementation of the following conditions and environmental safeguards.

A. Specific conditions

- (i) The project proponent shall obtain Consent to Establish and Consent to Operate from the Uttarakhand Environment Protection & Pollution Control Board and effectively implement all the conditions stipulated therein.
- (ii) Requisite prior clearance from the Standing Committee of the National Board for Wildlife shall be obtained due to location of the project area in the buffer zone of the Rajaji National Park and also within the Shivalik.

3
phant Reserve, before starting any activity relating to the project at
e. All the conditions stipulated by the Standing Committee shall be
effectively implemented in the project. It shall be noted that this clearance
does not necessarily implies that wildlife clearance shall be granted to the
project and that your proposal for wildlife clearance shall be considered by
the competent authorities on its merit and decision taken. The investment
made in the project, if any based on environmental clearance granted to
the project, in anticipation of the clearance from wildlife clearance shall be
entirely at the cost and risk of the project proponent and Ministry of
Environment and Forests shall not be responsible in this regard in any
manner.

(iii) Environmental clearance is subject to final order of the Hon'ble Supreme
Court of India in the matter of Goa Foundation Vs. Union of India in Writ
Petition (Civil) No. 460 of 2004, as may be applicable to this project.

(iv) Environmental clearance is subject to obtaining clearance under the
Wildlife (Protection) Act, 1972 from the competent authority, as may be
applicable to this project.

(v) Environmental clearance is subject to grant of forestry clearance.

(vi) The project proponent shall prepare the plan of mining in conformity with
the mine lease conditions and the Rules prescribed in this regard clearly
showing the no work zone in the mine lease i.e. the distance from the bank
of river to be left unworked, distance from the bridges etc. It shall be
ensured that no mining shall be carried out during the monsoon season.

(vii) The project proponent shall ensure that wherever deployment of labour
attracts the Mines Act, the provision thereof shall be strictly followed.

(viii) The project proponent shall identify the degraded forest area within the
mine lease in consultation with the State Forest Department and undertake
plantation/afforestation work by planting the native species.

(ix) 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 and unloading point and all transfer
points. Extensive water sprinkling shall be carried out on haul roads. It
should be ensured that the Ambient Air Quality parameters conform to the
norms prescribed by the Central Pollution Control Board in this regard.

(x) The project proponent shall undertake adequate safeguard measures
during extraction of river bed material and ensure that due to this activity
the hydro-geological regime of the surrounding area shall not be affected.
Regular monitoring of ground water level and quality shall be carried out
around the mine lease area by establishing a network of existing wells and
184/-

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 Office Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.

- (xi) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xii) Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
- (xiii) Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xiv) No drilling and blasting operation shall be carried out.
- (xv) Mineral handling area 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.
- (xvi) 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.
- (xvii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile 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.
- (xviii) Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring the change of river course, if any and report submitted to the Ministry of Environment and Forests and its Regional Office located at Lucknow.
- (xix) The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM_{10}) and NO_x in the ambient air within the impact

ered periodically. Further, quality of discharged water
 ed [(TDS, DO, PH, Fecal Coliform and Total Suspended
 e monitored data shall be uploaded on the website of the
 as displayed on a display board at the project site at a
 on near the main gate of the Company in public domain. The
 20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry
 ment and Forests, which is available on the website of the
www.envfor.nic.in shall also be referred in this regard for its
 ance.

project proponent shall take all precautionary measures during mining
 ration for conservation and protection of endangered fauna namely
 elephant etc. found in the study area. Action plan for conservation of flora
 and fauna shall be prepared in consultation with the State Forest and
 Wildlife Department. All the safeguard measures brought out in the Wildlife
 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
 Regional Office of the Ministry of Environment and Forests, Lucknow.

- (xxi) The project proponent shall get a siltation study carried out within one year
 through some Expert Agency like Central Water Commission to determine
 the siltation load in the river bed so that there is no over exploitation of
 river bed material at any point of time. The mineral to be removed shall be
 determined based on siltation load. A copy of siltation study so carried out
 shall be submitted to the Ministry of Environment and Forests and its
 Regional Office Lucknow.

B. General conditions

- (i) No change in mining technology and scope of working should be made
 without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral
 reta, bajri and boulders (minor mineral) and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the
 core zone as well as in the buffer zone for RSPM (Particulate matter with
 size less than 10micron i.e., PM₁₀) and NO_x monitoring. Location of the
 stations 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.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than
 10micron i.e., PM₁₀) & NO_x should be regularly submitted to the Ministry
 of Environment and Forests including its Regional office located at Lucknow
 and the State Pollution Control Board / Central Pollution Control Board once
 in six months.

R-6/-

(v) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

(vi) 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 program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

(vii) 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.

(viii) 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 of Environment and Forests and its Regional Office located at Lucknow.

(ix) The project authorities should inform to the 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.

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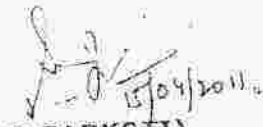
(SATISH.C.GARKOTI)
Scientist 'F'

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Mines & Geology, Government of Uttarakhand, Secretariat, Dehradun.
- (iii) The Secretary, Department of Environment, Government of Uttarakhand, Secretariat, Dehradun.

23/-

- (iv) Chief Wildlife Warden, Government of Uttarakhand, Secretariat, Dehradun.
- (v) Secretary, SCMC, Dehradun.
- (vi) The Chief Conservator of Forests, Central Region, Ministry of Environment and Forests, B-1/72, Sector-A, Allganj, Lucknow-226020.
- (vii) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
- (viii) The Member Secretary, Central Ground Water Authority, A 2, W3, Turzon Road Barracks, K.G. Marg, New Delhi-110001.
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(SATISH.C.GARKOTI)
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