



## GARHWAL MANDAL VIKAS NIGAM LTD.

(GOVT. OF UTTARAKHAND UNDERTAKING)

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Ref: 663 / Mining

Ph :- 0135-2746817,2749308

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Date: 03-2-2017

To,

**The Director (IA-II),  
Ministry of Environment, Forest & Climate Change,  
Indira Paryavaran Bhawan,  
Lodhi Road, Jor Bagh,  
New Delhi-110003**

**Sub: Regarding Environmental Clearance for River Baldi, Lot No-15/3 & 15/4 Sand, Bajri & Boulder Mining Project (Area: 69.785 ha) near Village: Mirota, Mandawali, Pustadi, Kulhaan, Mansingh, Kheri Mansingh & Reniwala, Tehsil: Dehradun, District: Dehradun, State: Uttarakhand.**

ToR No: J-11015/134/2013-IA.II (M)

Proposal No: IA/UK/MIN/18555/2013

Ref: Additional Details Sought by MS (ADS) generated on dated 24<sup>th</sup> June, 2016 and the 6<sup>th</sup> Meeting of the Reconstituted Expert Appraisal Committee (Non-Coal Mining), held on May 23-24, 2016.

Dear Sir,

We would humbly like to draw your kind attention on the subject matter that as per the ADS *"The matter was examined in the Ministry and noted that the Project Proponent has made Replenishment Study analysis based on Dendy Bolton's Replenishment Model and mentioned that a proposal of replenishment study is under consideration which is to be carried out by FRI Dehradun. In view of the above the undersigned is directed to request you to submit the updated status of the Replenishment study for further necessary action on the matter."*

Whereas the latest Minutes of 11<sup>th</sup> Meeting of the Reconstituted Committee of the Expert Appraisal Committee *"The Committee is of the view that in such States like Uttarakhand, Uttar Pradesh, Himachal Pradesh, Jammu & Kashmir, Haryana and Bihar the replenishment study is not required at the time of EC application and PP shall submit the replenishment study after 02 years of grant of EC"*.

Therefore, in the light of above mentioned matter, it is requested to you kindly issue the Environmental Clearance at your earliest.

Thanking you.

Yours truly,

*Atul*  
73/17

(Atul Kumar Gupta)

Managing Director

Encl.: As above

**No. J-11015/134/2013-IA.II (M)**

Government of India

**Ministry of Environment, Forest and Climate Change**

Impact Assessment Division

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Indira Paryavaran Bhavan,  
Aliganj, Jor Bagh Road  
New Delhi-110 003

Dated: 24<sup>th</sup> June, 2016

To,

**M/s Garhwal Mandal Vikas Nigam (GMVN) Limited,**  
74-1, Rajpur Road,  
Dehradun, Uttarakhand,  
Pin-248 001  
Tel. 0135-2740896, 2746817, Fax: 0135-2746847  
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**Sub.: Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) River Baldi (Lot No. 15/3 & 4) with proposed production capacity of 5,00,000 TPA (ROM) by M/s Garhwal Mandal Vikas Nigam Ltd., Village: Mirota, Mandawali, Pustadi, Kulhaan, Mansingh, Kheri Mansingh & Reniwala, Tehsil: Dehradun & District: Dehradun, Uttarakhand (MLA 69.785 ha)-regarding.**

Sir,

This has reference to your online application for the above mentioned proposal for mining of Sand, Bajri & Boulder (Minor Mineral) with proposed production capacity of 5,00,000 TPA (ROM). The mine lease area is located at Village: Mirota, Mandawali, Pustadi, Kulhaan, Mansingh, Kheri Mansingh & Reniwala, Tehsil: Dehradun & District: Dehradun, Uttarakhand in the mine lease area of 69.785 ha. The mine lease area lies on river bed of River Baldi. The proposal of EC was appraised before the Expert Appraisal Committee (EAC) in its Meeting held during May 23-24, 2016 wherein the Committee recommended the proposal for Environmental Clearance for Mining of Mineral Sand, Bajri and Boulder (Minor Mineral) with proposed production capacity of 5,00,000 TPA (ROM).

2. The matter was examined in the Ministry and noted that the Project Proponent has made Replenishment Study analysis based on Dendy Bolton's Replenishment Model and mentioned that a proposal of replenishment study is under consideration which is to be carried out by FRI Dehradun. In view of the above the undersigned is directed to request you to submit the updated status of the Replenishment study for further necessary action on the matter.

Yours faithfully,

  
**(Surendra Kumar)**  
Director (S)

**Copy to:**

- 1. The Principal Chief Conservator of Forests (C),** Ministry of Environment, Forest and Climate Change, Regional Office (NCZ), Pearson Road, P.O. New Forest, Forest Research Institute (FRI) campus, Dehradun - 248006.
- 2. MoEFCC website.**

  
**(Surendra Kumar)**  
Director (S)

**GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE  
(IMPACT ASSESSMENT DIVISION)  
NON-COAL MINING SECTOR**

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**SUMMARY RECORD OF 11th MEETING OF THE RECONSTITUTED COMMITTEE OF THE EXPERT APPRAISAL COMMITTEE FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS CONSTITUTED UNDER EIA NOTIFICATION, 2006.**

The Eleventh meeting of the Reconstituted Expert Appraisal Committee for Environmental Appraisal of Mining Projects (Non-Coal) of the Ministry of Environment, Forest and Climate Change was held during **October 24-25, 2016**. The list of participants is annexed.

After welcoming the Committee Members, discussion on each of the Agenda Items was taken up ad-seriatim.

**Item No. 1:**

**Day 1: October 24, 2016 [Monday]**

**(1.1). Circulation of the Minutes of the 10<sup>th</sup> EAC Meeting**

The Minutes of the 10th Meeting of EAC held during September 19-20, 2016 were circulated.

**(1.2). Standardization of EC conditions w.r.t. Non-coal mining sector**

The Committee deliberated the Standardization of EC conditions in Non-coal mining sector and the details of EC condition is annexed at **Annexure II**. The Committee is of the view that the project specific condition may be discussed during appraisal of individual project and the Committee may suggest the specific conditions for that project. The Standard condition

**(1.3). Issues related to replenishment study on the sand/bajri mining projects**

The member Secretary informed that the matter was examined in the Ministry w.r.t. replenishment study and noted that the Ministry has issued the terms of reference and inter-alia mentioned a condition that the Project Proponent shall conduct a detailed replenishment study and submit the report along with the EIA/EMP. However, the Project Proponent has made a theoretical study based on Dendy Bolton's Replenishment Study. In view of the above, the Ministry requested the EAC to recommend the amount of production on yearly

basis based on a duly conducted scientific replenishment study before recommending Environmental Clearance. Accordingly the proposal to discuss the replenishment study issues related to sand/bajri mining projects is placed in this meeting.

The Committee deliberated the issues and opined that Replenishment of the sand is a natural process in the perennial rivers. The sand moves along with the water streams and is deposited in the void created in the mined out areas. Replenishment rates vary depending on nature of watershed, nature of soil and rainfall etc. and mining beyond the natural replenishment rate results into damage of river bed leading to adverse environmental consequences.

Mining proposals under the category of river mining are received for Environmental Clearance mainly from States such as Uttarakhand, Himachal Pradesh, Uttar Pradesh, Jammu and Kashmir, Haryana, Bihar and Rajasthan. Analysis of these proposals reveal one fundamental difference between proposals received from Rajasthan and proposals received from other states i.e. the proposals of sand mining from Rajasthan are not in perennial rivers. These are, in effect, paleo sand deposits and are not replenished annually during monsoon season. The mined out areas are not replenished adequately and may turn into permanent depressions. The sand mining proposals from other states are in perennial rivers and are, therefore, replenished during monsoons. Such annual replenishments raise the river bed at certain places along the river and need to be mined to avoid threat of floods during subsequent monsoon season.

The Ministry has published the sustainable sand mining guidelines and recommends the condition that '*Project Proponent shall decrease / stop the mining of Sand, Bajri and Boulder, in case the replenishment is lower than the approved rate of production, till the replenishment is completed*'. These guidelines are being uniformly applied to all cases of sand mining irrespective of whether the projects are in areas of paleo sand deposits (Example: in Rajasthan) or on beds of perennial rivers of Uttarakhand, Himachal Pradesh, Uttar Pradesh, Jammu and Kashmir, Haryana, Bihar etc.).

The EIA/EMP reports on sand mining proposals estimate replenishment rates based on theoretical Dendy-Boltan formula and not on actual replenishment studies. The Dendy-Boltan formula is not very useful to estimate replenishment rates at a particular stretch of a river. Its application to cases such as those of Rajasthan, where river is not perennial, is even more problematic. In view of the above, there is a need, therefore, to treat the river sand mining proposals from Rajasthan differently from those of other states.

The Committee deliberated the issues w.r.t. replenishment study for the sand/bajari mining projects received from the various States. The Committee recommended the following:-

- a) In case of Sand/Bajri mining projects from the State of Rajasthan, Project Proponents shall first conduct a scientific replenishment study and submit the report before the EAC for further consideration of amount of production for

mining of sand/bajari on yearly basis. Therefore, the Committee deferred all such sand/bajri mining proposals of State of Rajasthan.

- b) The sand mining proposals from other States namely Uttarakhand, Himachal Pradesh, Uttar Pradesh, Jammu and Kashmir, Haryana, and Bihar wherein there are perennial rivers and are, therefore, replenished during monsoons. Such annual replenishments raise the river bed at certain places along the river and need to be mined to avoid threat of floods during subsequent monsoon season. The Committee is of the view that in such States like Uttarakhand, Uttar Pradesh, Himachal Pradesh, Jammu & Kashmir, Haryana and Bihar the replenishment study is not required at the time of EC application and PP shall submit the replenishment study after 02 years of grant of EC.

#### **(1.4): Visit of mines by the EAC Committee**

The EAC has recommended that the Ministry may like to arrange the visit of small groups of EAC to different types of mines in the Country to see the mining operations and observe the various mitigation measures being taken by the Project Proponents.

#### **Item No. 2:**

##### **(2.1): Construction of new Screening & Beneficiation plant –II, slime disposal pipeline- 1&2, Tailing dam -1&2 at Donimalai and Kumaraswamy Iron Ore Mines of M/s NMDC Ltd. located at District Bellary, Karanataka (10MTPA) (Consultant: M/s Mecon Limited)-Consideration of EC**

The Proposal is for Construction of new Screening & Beneficiation plant-II, Slime disposal pipeline-1 & 2, Tailing dam-1 & 2 at Donimalai for Donimalai and Kumaraswamy Iron Ore Mines of M/s. NMDC Limited, Bellary District, Karnataka state (10 MTPA). The Project is located between Latitude: 15°02' to 15°6'30" N and Longitude: 76°36' to 76°38'30" E. respectively. Study area falls within the Survey of India Toposheet No. D43E12 (old no: 57 A/12. The Project is located in Seismic zone-II.

The proposal is for environmental clearance of Construction of new Screening & Beneficiation Plant –II, slime disposal pipeline- 1&2, Tailing dam -1&2 at Donimalai and Kumaraswamy Iron Ore with production capacity of 10MTPA. The mine lease area is 75.92 ha. Total mine lease of 75.92 ha is forest land.

The Committee deliberated at length and based on the information furnished and discussions held, the Committee was of the view that **the proposal needs to be transferred to the EAC (Industry Sector) as the proposal is only for the beneficiation process which is outside** the lease area and the project proposal falls in Schedule 2(b) as per the provisions of the EIA Notification, 2006.