BY SPEED POST

No. J-11015/83/2011-IA.II (M) Government of India Ministry of Environment & Forests

Paryavaran Bhavan, C.G.O. Complex, Lodi Road, New Delhi-110 003.

Dated the 31st October, 2011

THIS IS A TRUE COPY OF ORIGINAL DOCUMENTS WHICH I HAVE SIGNEDIATTE STED.

M/s National Mineral Development Corporation Limited 'Khanij Bhawan' , 10-3-311/A, Castle Hills

Masab Tank, Hyderabad- 500 173.

E-mail: hois@nmdc.co.in; fax: 040-2353 8711

Subject: Expansion of Bailadila Iron Ore Deposit No. 11-A (ML area- 233.509 ha ; сар Exp - from 5.0 million TPA to 7.0 million TPA) of M/s National Mineral Development Corporation Ltd. (NMDC), Bachelli, Dantewada District, Chhattisgarh -Environmental clearance regarding.

Sir.

This has reference to your letter No, NMDC/ENEV/EC/BLD-11A/2010 dt. 22.03.2011 on the subject mentioned above. Subsequent information furnished during the meeting was also considered.

The proposal is for enhancement of production of Iron ore from 1.7 million TPA to 2.8 million TPA from Bailadila Iron ore Deposit no. 11A at Bachelli, Dantewada District, Chhattisgarh . The mine lease area is 233.509 ha, which is a forestland. Forestry clearance has been obtained combinedly for an area of 874,924 ha for the Bailadila Iron Ore Project. The mining site is located at Latitude 18° 40' 10" to 18° 41' 33" and longitude -81° 13′ 20" to 81° 13′ 40". As per the mine lease area breakup given, area under mining will be 32.317 ha, area for waste dump will be 8.75 ha and area for haul road will be 6.20 ha. The peak water requirement for the project is assimilated as 150 kid which will be obtained from surface water (Galli nallah). The CD4 iron ele from deposit 11-A will be processed along with deposit 10 iron ore in combined ore regining, screening and loading plant. There would be no other facilities and/on cilities mine area. Mine working will be opencast mechanized involving drilling and playing. Life of mine is 10 years. About 10 lakh trees have been planted under affores ation programme at Bachelli Complex. No National Park./ Sanctuary is reported within of the mine lease. Public hearing was held on 28.10.2009. It was reported that there is no court case pending against the project. The mine lease is valid up 10.09.2017. Existing cost of EMP (capital) is Rs. 0.10 Crores and proposed cost will be Rs. 0.10 crore Recurring cost of EMP is Rs. 0.02 Crores and proposed Eds WAPproved 0.10 Cost of the project will be Rs. 3.49251 Croses.

ATTESTED

(Appointed by Govt. of A.P.) Hyas Mohammed Gabty ABRECATE HIGH DOUBL MF OLD CROSS AREA MENDINATRAM. WY 0 144 144 . 300 028.

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- 3. The terms of reference for the project were issued on 25.09.2009 for preparation of EIA and EMP. The Public hearing was held on 28.10.2009 at Conference hall at Panchayat Office at Dantewada, Distt. Dantewada by Chhattisgarh Environment Conservation Board. The Mining Plan was approved by IBM on 15.10.2005. Mine lease was renewed on 29.06.2002 vide letter no. F-3-124/96/12/2 by the Deptt. of Mines Resources, Govt. of Chhattisgarh upto 09.09.2017 i.e for 20 years from 10.09.1997.
- 4. The proposal has been considered by the Expert Appraisal Committee for Mining based on the project documents and has recommended for the grant of environmental clearance for the said expansion project of Bailadila deposit no. 11A. Accordingly, the Ministry of Environment and Forests hereby accords environmental clearance to the said project up to **09.09.2017** under the provisions of Environment Impact Assessment Notification, 2006 subject to strict compliance of the terms and conditions as follows:-

A. SPECIFIC CONDITIONS:

- (i) The project proponent shall obtain Consent to Establish and Consent to Operate from the Chhattisgarh Environment Conservation Board and effectively implement all the conditions stipulated therein.
- (ii) Mine working will be restricted to only that area of the mine lease for which forestry clearance has been obtained. No work shall be undertaken in the any forest area without obtaining requisite forestry clearance.
- (iii) Appropriate safeguard measures shall be taken for control of PM₁₀ levels. The levels shall be regularly monitored to ensure that these are within permissible limit. The records of the monitored data shall be maintained and submitted as part of the six monthly monitoring report to the Regional Office of the Ministry at Bhopal.
- (iv) The top soil shall temporarily be stored at earn and plantation.

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- (v) Transport of mineral from mine to the cruent plant shall be through covered conveyor belt and from there by Rail (a) vonty it con
- (vi) The mining operations shall be restricted to above ground when table and it should not intersect the groundwater table. In case of sorking below the ground water table, prior approval of the Ministry of Enducine and Forests and the Central Ground Water Authority Statistical and which a detailed hydro-geological study shall be carried out.

- (vii) Trenches / gariand drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of Check Dams and Gully Plugs shall be constructed across seasonal/perennial nallahs (if any) flowing through the ML area and silts arrested. Desilting at regular intervals shall be carried out. Adequate mitigating measures shall be taken to improve the water quality of the Galli Nala for making suitable for potable water for the nearby population.
- (Viii) The optimum charge for blasting shall be determined based on peak particle velocity. Blasting operation shall be carried out only during the day time. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- (ix) Drills shall either be operated with dust extractors or equipped with water injection system.
- (x) Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- (xi) ETP shall also be provided for the workshop and wastewater generated during the mining operation.
- (XII) Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools, temples and other public amenities located nearest to sources of dust generation as applicable) and records submitted textile Regional Office of the Ministry at Bhopal.
- (xiii) The project authority shall implement suitable conservation including suitable rain water harvesting measures to a igneral provide later resources in the area in consultation with the Regional including suitable rain water harvesting measures to a igneral provide later.

 Ground Water Board.

 Arsenic
- (xiv) Regular monitoring of ground water level and quality including. Arsenic shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers durapproked 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, Bhopal, 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.

- (xv) Land-use pattern of the nearby villages shall be studied, including common property resources available for conversion into productive land. Action plan for abatement and compensation for damage to agricultural crops / common property land (if any) in the nearby villages, due to mining activity shall be submitted to the Ministry as well as Regional office at Bhopal within six months.
- (xvi) Need based assessment for the nearby villages shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.
- Occupational Health Cell shall be created at the comparational materials of an officer of adequate seniority who is a qualified person in occupational health. Occupational health and safety measures for the workers healthing identification of work related health hazards, training on malaria eraclication, HIV, and health effects on exposure to mineral dust etc. shall be corried out. The company shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirational health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary full marks pike use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years of less) shall be conducted followed by follow up action wherever required.

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- (xviii) The company shall stress upon the preventive aspects of occupational health.Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
- The greenbelt plantation all around the mine lease should be completed within first 5 years of grant of environmental clearance. Green belt development and selection of plant species shall be of native species. The density of the trees should be around 2000 plants per ha. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Ministry as well as Regional Office at Bhopal within six months.
- (XX) Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral within the lease up to the stockyard. The mineral transportation within the mine lease shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- 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.
- The critical parameters such as RSPM (Particulate matter within the particulate particle velocity at 300m distance or within the particulation, whichever is closer shall be monitored per dically in urther quality of discharged water shall also be monitored at (VDS, -BO, FH and Total Suspended Solids (TSS)). The monitored data, shall be project site at a suitable location near the main trate, of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(11) 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 to the project its compliance.

- (xxii-a) The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/ deviation/ violation of environmental or forest norms/ conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance of EC conditions and (iii) System of reporting of non compliance/violation of environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- (xxi.v) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

B. GENERAL CONDITIONS:

(vi)

(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

iron ore and waste should be made.

(iii) At least 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 monitoring stations and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board and should be based on the meteorological data, topographical features and environmentally and ecologically sensitive targets.

(iv) Data on ambient air quality [(RSPM(Particulate matter with parties than 10micron i.e., PM₁₀) and NO_x] should be regularly submitted to the Military including its Regional office located at Bhopal and the State Pollution Control Board once in significantly.

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

transfer points should be provided and properly maintain.

Measures should be taken for control of noise levels below, 85 dBA, when work environment. Workers engaged in operations of HEMM, and the provided with ear plugs / muffs.

(vii) Industrial waste water (workshop and waste water from the standard probable be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease treatment be installed before discharge of workshop effluents.

Pers-onnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on (viii) safe ty and health aspects. Occupational health surveillance program of the worl-kers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

A seeparate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report (ix)

directly to the Head of the Organization.

The funds sarmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise (x)exp-enditure should be reported to the Ministry and its Regional Office located at Bhopal.

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

(VV)

The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should (iix) extend full cooperation to the officer (s) of the Regional Office by furnishing

the requisite data / information / monitoring reports.

The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including (iiix) results of monitored data (both in hard copies as well as by e-mail) to the Mimistry of Environment and Forests, its Regional Office Re-spective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions meditions results of monitored data on their website and shall update the same periodically. It she all simultaneously be sent to the Regional faire of the stry of Erryironment and Forests, Bhopal, the respective Zpnal differ of Central Pollution Control Board and the State Pollution Control Board and the

Panchayat, Zila Parisad / Municipal Corporation, Taban Local Today and (XIV) threLocal NGO, if any, from whom suggestions/ representations/ if any, were received while processing the proposal. The clearance letter shall also be paut on the website of the Company by the proponential दित/Approved
The State Pollution Control Board should display a copy of the clearance

letter at the Regional office, District Industry Centre and the Collector's

o ffice/ Tehsildar's Office for 30 days.

The project authorities should advertise at least in two local newspapers TARD S (xvi)

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 Bhopal.

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

6. The Ministry may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, it is found/ come to the knowledge of this Ministry that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.

7. Failure to comply with any of the conditions mentioned above may result in withdras val of this clearance and attract action under the provisions of the Environment

(Protectaion) Act, 1986.

8. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Chhattis-garh and any other Court of Law relating to the subject matter.

9. 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 companyable of with the state of compliance of environmental clearance conditions and state also be set to the respective Regional Office of the Ministry of Environment and press. Bhopal is e-mail.

10. A ny appeal against this environmental clearance shall lie with the National die Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of National Green Tribunal Act, 2010.

Copy to:

Secretary, Ministry of Mines, Government of India, Shastri Delhi,

अनुनोदिक्रके BRAKASH) DEPUTY DIRECTOR

Shastri-Buayan, New

Secwetary, Department of Environment, Government of Chhattisgarh, Raipur. 2.

Secretary, Department of Mines and Geology, Government of Chhattisgarh, 3. Raigour

Sec retary, Department of Forests, Government of Chhattisgarh, Raipur. 41.

Chief Conservator of Forests, Ministry of Environment & Forests, Regional Offf-ce, Kendriya Paryavaran Bhawan, E-5, Arera Colony, link Road-3, Ra-vishankar Nagar, Bhopal- 462 016. 5.

Chamirman, Central Poliution Control Board, Parivesh Bhawan, CBD-Cum-Office 6.

Complex, East Arjun Nagar, New Delhi-110 032.

Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil 7. Lines, Raipur - 421 001, Chhattisgarh.

Me mber Secretary, Central Ground Water Authority, A2, W -3 Curzon 8.

Road Barracks, K.G. Marg, New Delhi-110001.

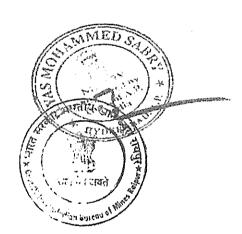
Corntroller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, 9. Na⊆pur- 440 001.

District Collector, Dantewada, Govt. of Chhattisgarh. 10.

El Division, Ministry of Environment & Forests, Paryavaran Bhawan, New 11.

Mo nitoring File/Guard File/ Record File. 12.

> (OM PRAKASH) DEPUTY DIRECTOR



श्नानोदित/Approved