NMDC/ENV/IOBP/SMPR/2017/659
Dated: 28.05.2018
Addl. PCCF,
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ),
Ground Floor, East Wing,
New Secretariat Buildings,
Civil Lines, Nagpur – 440 001


Sir,

With reference to the above, please find enclosed herewith Six Monthly Progress Report for the period October’ 2017 to March’ 2018 on Environmental Compliance in respect of 4 MTPA Iron Ore Beneficiation Plant of NMDC Ltd, at Bacheli South Bastar, Dantewada District, Chhattisgarh. The report is also placed in NMDC website at www.nmdc.co.in and also uploaded in MoEFCC Portal.

Thanking you,

Encl: As above.

Yours faithfully,

(M. Jayapal Reddy)
JGM (Env)

Copy for kind information to:

1. ED, BIOM, Bacheli Complex / G.M, Slurry Pipeline Project, Jagdalpur.
**SIX MONTHLY COMPLIANCE REPORT**  
**FOR**  
**4.0 BENEFICIATION PLANT**  
**OF**  
**M/s NMDC Ltd. AT BACHELI**  
**(Oct' 2017 to March’ 2018)**


<table>
<thead>
<tr>
<th>Sl.No</th>
<th>SPECIFIC CONDITION of MoEFCC</th>
<th>COMPLIANCE STATUS</th>
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<tbody>
<tr>
<td>i.</td>
<td>M/S NMDC Limited shall obtain separate environmental clearance for the slurry pipeline under the project activity I(a) (ii) of Schedule of the EIA Notification, 2006 if applicable.</td>
<td>Agreed</td>
</tr>
<tr>
<td>ii.</td>
<td>The project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.</td>
<td>NMDC has initiated the process for purchasing of 24x7 air monitoring devices which shall be ready before plant operation.</td>
</tr>
<tr>
<td>iii.</td>
<td>The environmental clearance is subject to the grant of forestry clearance.</td>
<td>Final stage Forest Clearance for the diversion of 33ha Forest land for Iron Ore Beneficiation Plant has been granted vide MoEFCC, Nagpur letter No. F.No FC-II/CH-17/2015-NGP/2623 dated 27/09/2017. The Forest land is yet to be handed over to NMDC Ltd. by C.G Forest department.</td>
</tr>
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<td>iv</td>
<td>The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be adhered to.</td>
<td>Project will ensure that the National Ambient Air Quality Emission Standard issued by Ministry dtd. 16 November,2009 is followed.</td>
</tr>
<tr>
<td>v</td>
<td>Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.</td>
<td>Project will ensure that the National Ambient Air Quality Emission Standard issued by Ministry dtd. 16 November,2009 is followed.</td>
</tr>
<tr>
<td></td>
<td>Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.</td>
<td>All efforts shall be made by the project to control the vehicular pollution &amp; dust pollution against the specified norms.</td>
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<tr>
<td>vii</td>
<td>'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.</td>
<td>The project will ensure the same.</td>
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<tr>
<td>viii</td>
<td>Small seasonal nallas flowing in the beneficiation plant area shall be systematically diverted.</td>
<td>Nallas flowing in the beneficiation plant area will be systematically diverted.</td>
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<td>ix</td>
<td>Lean tailings generated in the process shall be impounded in existing tailing dams. Intermediate dykes shall be constructed within tailing dam for storage of lean Tailings so as to avoid direct contact with slimes already present in tailing dams. Clear water shall be allowed to discharge into downstream nallas through decanting system provided in tailing dams.</td>
<td>Agreed. The project will ensure the same.</td>
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<tr>
<td>x</td>
<td>At the terminus of the pipeline at Nagarnar, the ore slurry shall be filtered. The recovered filtered water shall be used for industrial purposes in the plants. For transportation of 4 MTPA iron ore concentrate, shut down-restart mode shall be adopted for reduction in water &amp; power requirement as compared to normal operation in batch mode.</td>
<td>Agreed. The project will ensure the same.</td>
</tr>
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<td>xi</td>
<td>Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act whichever are more stringent.</td>
<td>The project will ensure that Environment monitoring is carried out systematically and all the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act shall be followed.</td>
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<td>xii</td>
<td>Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and quarterly reports regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry’s Regional Office, SPCB and CPCB.</td>
<td>Agreed. The project shall ensure the same.</td>
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<td>xiii</td>
<td>Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For this purpose, the schedule of health examination of the workers should be drawn and followed scrupulously.</td>
<td>Agreed. The project shall ensure the same.</td>
</tr>
<tr>
<td>xiv</td>
<td>A time bound action plan shall be submitted to reduce solid waste generation due to the project related activity, its proper utilization and disposal.</td>
<td>The project shall ensure the same.</td>
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<tr>
<td>xv</td>
<td>A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry’s Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.</td>
<td>Risk Assessment &amp; Disaster Management Plan has been incorporated in Chapter 7 of the EIA-EMP Report &amp; submitted to MOEFCC along with EIA report. A copy of the Risk Assessment &amp; Disaster Management Plan is again enclosed as Annexure-1</td>
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<td>xvi</td>
<td>Green belt shall be developed by planting native and broad-leaved tree species in consultation with local DFO, local community and as per CPCB guidelines.</td>
<td>The project is committed for Green belt development. Plantation of native and broad-leaved tree species in consultation with local DFO, local community and as per CPCB guidelines will be undertaken. Payment of Rs. 27 lakhs (as per EIA report) for Green belt development has been deposited to DFO, Dantewada vide DD No.871700 dtd. 27.03.2018, copy of which is enclosed as Annexure-2.</td>
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<td>xvii</td>
<td>The Company shall submit, within three months, their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/violation of</td>
<td>The Corporate Environment Responsibility is enclosed as Annexure-3</td>
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<td>xviii</td>
<td>The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.</td>
<td>Solar light system for common areas around the project area shall be provided.</td>
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<td>xix</td>
<td>The project proponent shall provide for LED lights in their offices and residential areas.</td>
<td>LED lights in office premises and residential areas shall be provided.</td>
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<td>xx</td>
<td>At least 2.5% of the total cost of the project shall be earmarked for the Enterprise Social Commitment (ESC) based on issues raised during public consultation, local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.</td>
<td>Under Process.</td>
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<td>xxi</td>
<td>The proponent shall prepare a detailed CSR Plan for the next 5 years including annual plans for each year for the existing-cum-expansion project, including village-wise, sector-wise (Health, Education, Sanitation, Skill Development and Infrastructure activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% of annual profits as provided for under Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR</td>
<td>The project shall ensure the same.</td>
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activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to the Regional Office of the Ministry. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.

**xxii** 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 and health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

**Construction is yet to be started.**

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<td>xi</td>
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| xiii | 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 conditions and shall also be sent to the respective Regional Office of the MoEFCC at Nagpur by e-mail.

| xiv | The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur. |
| xlv | NMDC has informed the public regarding award of Environmental Clearance by publishing the news in two widely circulated local newspapers within seven days from the date of issue of the clearance letter, in vernacular language. A copy of the above advertisement is enclosed as Annexure-5. A copy of the same has been forwarded to Regional office at Nagpur which is enclosed as Annexure-6. |

| xv  | Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work. | Agreed. Project shall ensure the same. |
CHAPTER - 7
ADDITIONAL STUDIES
CHAPTER - 7

ADDITIONAL STUDIES

7.1 Risk Assessment, Occupational Health & Disaster Management plan:

Although Beneficiation plant & Slurry Pipeline System will not cause any disastrous emergencies, control measures due to accidental discharge, spillages of slurry during transportation, storage and manufacturing process needs to be assessed.

The company has established a system for preventive maintenance to minimize emergency events. A team headed by Safety Officer is responsible for the above. He reports to Plant Head. Emergency events that can arise as listed below

i. Failure of dust collection device like, Bag house etc.
ii. Accidental spillage of Iron or dust containing Iron.
iii. Failure of the dust extraction network.

Company observes the following for assessment of emergency events:

i. A formal and written emergency plan related to health risks is in place.
ii. The team has been well acquainted with the major potential Hazard sources and locations.
iii. Visual inspection of the pollution control systems on a daily basis is carried out.
iv. The emergency plan clearly defines persons responsible in case of an incidental failure.
v. There is an annual engineering check of the equipments.
vi. A record of the maintenance activities are kept for review.
vii. The senior member of the team inspects the operation. Any anomaly found is directly reported to Plant Head and a record is maintained in this regard.

7.2 Training to Employees:

All employees are educated to take precautions and use all protective measures to control dust in working environment. They are well informed of the consequences of ignoring the precautions. Personal protective equipments as per BIS code of practices IS; 12078: 19817 are provided to the employees. Pictorial warning signs and precautionary notices as per BIS code of practices IS; 12078: 19817 (Part-I); 1987 (reaffirmed 1997) are displayed. All work places where accident may cause a hazard are clearly indicated as a "hazard area", with well displayed signboard along with effects on health. The employees are educated about the safety features through written literature, pictorial signature and color coded signs.

Record of education & training activities are maintained. All employees are provided information booklet in Hindi & English language, on the risk related to project activities and recommendations to protect themselves from undue exposures.

7.3 Occupational Health:

The occupational health surveillance program is implemented to address pre employment & periodic health examination. Every employee prior to his appointment undergoes the pre employment medical examination arranged by the project proponent and issued an Appointment letter only on getting fitness certificate issued by competent authority. Scheme for health surveillance include periodical examination of workers. Occupational health surveillance is carried out by occupational, physical or chest physician, trained in occupational medicine. All the above are provided by the company free of cost.
The medical records are maintained & stored for a period of 15 years, following the termination of employment or for 40 years after first day of employment, whichever is later. All employees are provided with medical book.

The occupational health surveillance program addresses mainly the following aspects:

i. Pre employment medical examination

ii. Periodic medical examination

iii. Medical examination on cessation of employment

iv. Maintenance of Medical records & health education

Periodical medical examination (PME) is carried out as per DGMS guidelines at Occupational Health Centre (OHS), NMDC –Apollo Central Hospital, Bacheli for all employees once in 5 years. For above 45 years of age employees medical examination is done once in 3 years. Pre-retirement medical examination is also carried out for the employees.

NMDC is in the process of getting Integrated Management System covering Quality, Environment & Occupational Health for its existing projects at Bacheli. This certification will extend to the proposed Beneficiation plant also.

7.4 Workplace Monitoring:

Following general guidelines (as per BIS; 11451: 2006 code of practice for preparing Workplace Monitoring Schedule) are followed:

i. Once in a month, where dust concentration is likely to exceed prescribed exposure limit.

ii. Once in three months where dust concentration is likely to be between exposure limit and action level.
iii. Once in every 6 to 12 months where dust concentration is below action & once in every 12 months at all work spots where there are exposures irrespective of dust concentrations.

7.4.1 Environmental Laboratory:

NMDC has a well established NABL certified Chemical Laboratory. In house monitoring for ambient air quality, work zone monitoring for total dust content, stack monitoring, noise monitoring are being done regularly to assess the pollutant concentrations. Most of the instruments required for environmental monitoring are available. Outsourcing is also done for certain environmental parameters through MoEF approved labs.

7.5 Disaster Management Plan:

An important element of mitigation is emergency planning, i.e. recognizing that accidents are possible; assessing the consequences of such accidents and deciding on emergency procedures, both onsite and offsite, that would need to be implemented in the event of an emergency.

Emergency/ disaster planning is just one aspect of safety and cannot be considered in isolation. M/s NMDC Limited. fully endorse this view and hence a Disaster Management Plan is prepared to ensure that the necessary standards, appropriate to the safety legislation, are in place.

The important elements of disaster planning are broadly classified as follows.

- Identification of various scenarios
- Advance planning to overcome the problem
- Actions in case of disaster phase, which includes warning, evacuation of personnel, rescue relief operations to people affected in mishaps & containment of a disaster.
7.6 Objectives of the Plan:

The overall objectives of the emergency plan are:

a) To localise the emergency and, if possible eliminate it and
b) To minimize the effects of accident on people and property

7.7 Identification and assessment of hazards:

The equipment are designed and selected with utmost care to ensure the minimization of Hazards. Care will be taken in the following areas namely:

a) Material storage and distribution
b) Dispatch of finished product

7.7.1 Hazardous areas in the plant:

Any failure of storage tanks and pipelines could be a source of hazard in the immediate surroundings.

7.7.2 Likely fire hazards:

The operation involving handling and use of flammable materials, which are prone to fire risk and hence their installation areas need special attention not only in design erection but also during operation/ maintenance to ensure fire safety.

The fire hazards may occur in the following units:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Type</th>
<th>Quantity</th>
<th>Storage</th>
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<tbody>
<tr>
<td>1</td>
<td>HSD for 2 DG sets of 1000 KVA</td>
<td>500 liters/day</td>
<td>No storage, NMDC own diesel pumps at Bacheli</td>
</tr>
<tr>
<td>2</td>
<td>Oil for 2 DG sets of 1000 KVA</td>
<td>5 liters/day</td>
<td>Drum for 30 days</td>
</tr>
</tbody>
</table>
7.7.3 On-site emergency planning:

The on-site emergency plan would be related to the final assessment and it is the responsibility of the Works Management to formulate it. The plan must therefore, be specific to the site.

The plan sets out the way in which designated people at the site of the incident can initiate supplementary action either inside, or outside the works, at an appropriate time. An essential element of the plant is the provision to make safe the affected unit, for example by shutting it down. The plan also contains the full sequence of key personnel to be called in from other sections or from off site.

7.7.4 Appointment of personnel and delegation of duties:

Effective emergency plan requires that, in an event of an accident, nominated individuals are given specific responsibilities, often separate from their day-to-day activities. The two principal people are the site incident controller and the site main controller.

The site incident controller takes control of handling the incident. He will often be the person in charge of the plant at the time of the incident and should provide 24-hour cover where shift operation applies. The site incident controller will have to take decisions involving neighbouring area, perhaps to be involved in an escalating emergency, if it is not shut down.

Apart from the two site controllers, other works personnel have key roles to play in the implementation of the emergency plan. These include senior management of plants not directly involved in the emergency, first aiders, atmospheric monitoring staff, casualty reception staff and public relations staff to keep liaison with the District Authorities and Media. Every individual needs
to be aware of the emergency pre-planning and the precise nature of their roles.

7.7.5 Emergency Control Center:

The emergency control center is the place from where the operations to handle the emergency is directed and coordinated. It is manned by the site main controller, key personnel and the senior officers of the fire and police services.

The center is equipped to receive and transmit information and directions from and to the incident controller and other areas of the works, as well as outside.

Emergency control center therefore should contain the following:

a) An adequate number of external telephones;
b) An adequate number of internal telephones;
c) A plan of the works, to show:
   i) Areas where HSD & other inflammable materials are kept.
   ii) Sources of safety equipment;
   iii) The fire-fighting system and additional sources of water;
iv) Entrances & Roadways, including latest information on road network;
v) Assembly points,
vii) The location of the works in relation to the surrounding community.
vii) Lorry parking,
viii) Roll of employee,
ix) A list of key personnel, with addresses, telephone/mobile numbers, etc.
7.7.6 Action on site:

The primary purpose of the on-site emergency plan is to control and contain the incident so as to prevent it from spreading to nearby areas. It is not possible to cover every eventuality in the plan and the successful handling of the emergency will depend on appropriate action and decisions being taken on the spot. Other important aspects considered include the following:

a) Evacuation of non-essential personnel
b) Accounting for personnel affected
c) Access to recording personnel for sending the information to the friends and relatives.
d) Public relations
e) Rehabilitation of the affected persons

7.8 Post disaster analysis and evaluation:

When the emergency is over, the team will carry out a detailed analysis of the causes of the accident, evaluate the influence of various factors and minimize them for future. At the same time the adequacy of the Disaster Preparedness Plan is also evaluated and shortcomings are ratified for subsequent improvement of the plan.

7.9 Emergency services:

The provision of the following emergency services has been made available in the existing plant

a) Fire protection system
b) Medical facilities
c) Rescue facilities
d) Plant safety arrangements

e) Emergency action within 15 minutes of occurrence.

7.10 Off-site emergency plan:

7.10.1 Introduction:

The off-site emergency plan is an integral part of any major hazard control system. It is based on those accidents identified by the works management, which could affect people and the environment outside the works. Thus, the off-site plan follows logically from the analysis that took place to provide the basis for the on-site plan and the two plans therefore complement each other. The key feature of a good off-site emergency plan is flexibility in its application to emergencies other than those specifically included in the formation of the plan. The roles of the various parties that may be involved in the implementation of an off-site plan are described in this section. The responsibility for the off-site plan is likely to rest either with the works management or with the local authority.

Some of the aspects included in off-site emergency plan are as follows:

7.10.2 Organization:

Details of command structure, warning system, implementation procedures, emergency control centers, Names and appointments of incident controller, site main controller, their deputies and other key personnel.

7.10.3 Communications:

Identification of personnel involved, communication center, call signs, network, list of telephone numbers.

Ecomen Laboratories Pvt. Ltd.
7.10.4 Special emergency equipment:

Details of availability and location of heavy lifting gear, bulldozers, specified fire-fighting equipment, fireboats.

7.10.5 Voluntary Organizations:

Details of Organizations, telephone numbers, resources, etc.

7.10.6 Meteorological information:

Arrangements for obtaining details of weather conditions prevailing at the time and weather forecasts.

7.10.7 Humanitarian arrangements:

Transport, evacuation centers, emergency feeding, treatment of injured, first aid, ambulances, temporary mortuaries.

7.10.8 Public information:

Arrangements for (a) dealing with the media-press office, (b) informing relatives, etc.

7.11 Assessment:

Arrangements for (a) collecting information on the causes of the emergency (b) reviewing the efficiency and effectiveness of all aspects of the emergency plan.

7.12 Role of the emergency co-coordinating officer:

The various emergency services are coordinated by an emergency coordinating officer (ECO). The ECO liaise closely with the site main controller.
Again depending on local arrangements, for very severe incidents with major or prolonged off-site consequences, the external control passes to a senior authority/administrator.

7.12.1 Role of major hazard works management:

The role of works management in off-site emergency planning is to establish liaison with those preparing the plans and to provide information appropriate to such plans.

Information is provided by works management to all the outside organizations, which involve in handling the emergency off-site and which are familiarized with the technical aspects of the works activities, e.g. emergency services, medical departments etc.

7.12.2 Role of the Fire Extinction authorities:

The control of fire is normally the responsibility of the senior fire brigade officer, on arrival at the site. The senior fire brigade officer also has a similar responsibility for other events, such as explosions and toxic releases. Fire authorities get familiarized with the location on site of all stores of flammable materials, water and foam supply points and fire-fighting equipments.

7.12.3 Role of the health authorities:

Health authorities, including doctors, surgeons, hospitals, ambulances and so on, have a vital part to play, following a major accident and they form an integral part of any emergency plan.

For major fires, injuries will be the result of the effects of thermal radiation to a varying degree and the knowledge and experience to handle this in all, available nearby hospitals is essential.
7.12.4 Role of the Government safety authority:

The factory inspectors can visit/check the off-site plan and the arrangements made for handling emergencies of all types including major emergencies. The advice of Factory inspectors is incorporated from time to time.
DEMAND DRAFT

ON DEMAND PAY

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AMOUNT BELOW 2700001/-(27/7)

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STATE BANK OF INDIA
DANTEWADA BRANCH

M. Vinoth Kumar, S.S.No: 214502

31-03-18

31-03-18
प्रति,

वन मंडलाधिकारी,
जिला दंतेवाड़ा (छ.म.)

विषय:— एनएमडीसी, बवेली कापलेक्स को लौह अयंत्र प्रसंस्करण संग्रह (स्लाइम बेनिफिकेशन) Iron Ore Processing Plant (Slime Beneficiation) की स्थापना हेतु रक्षा 33.00 हेतु क्षेत्र वन्मूगी में मृदा संरक्षण एवं पवित्र/वैसिक निवास स्थान बनाने हेतु औ.धी.धी.जामा करने बाबत।

संदर्भ:— 1. आपके पत्र क्रमांक/कार्यालय /1412 दंतेवाड़ा, दिनांक: 07/03/2018

उपरोक्त विषयार्थी संदर्भित पत्र का अंतल करने का कष्ट करें। एनएमडीसी, बवेली कापलेक्स को लौह अयंत्र प्रसंस्करण संग्रह (स्लाइम बेनिफिकेशन) Iron Ore Processing Plant (Slime Beneficiation) की स्थापना हेतु रक्षा 33.00 हेतु क्षेत्र वन्मूगी में मृदा संरक्षण हेतु 27,00,000/- एवं पवित्र/वैसिक निवास स्थान बनाने हेतु 17,24,000/- राशि जमा करने हेतु आपके कार्यालय द्वारा निर्देशित करिया गया था। अतः 27,00,000/- (रूपये लाख सात चरण) की वन्मंडलाधिकारी, वनमंडल दंतेवाड़ा के नाम से धी.धी आपके कार्यालय को प्रेषित की जा रही है। 17,24,000/- (रूपये सात चरण दस छाँटी सप्तशतांड्र) का एनईएलटी दूरसंचार द्वारा चौतीसवां कम्पांडमेंट में जमा की जा चौके हैं उल्लेख राशि का विवरण निम्नलिखित है?

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<th>राशि</th>
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<tr>
<td>1</td>
<td>&quot;871700&quot;</td>
<td>27.03.2018</td>
<td>27,00,000/-</td>
</tr>
<tr>
<td>2</td>
<td>&quot;83N918086690177&quot;</td>
<td>27.03.2018</td>
<td>17,24,000/-</td>
</tr>
</tbody>
</table>

अतः उपरोक्त वन्मूगी में मृदा संरक्षण एवं पवित्र/वैसिक निवास स्थान बनाने हेतु राशि की धी.धी एवं एनईएलटी दूरसंचार द्वारा हेतु आपके साध्य अनुभव है।

धन्यबाद

संलग्न— 1 नग. धी.धी की मूलप्रति।
1 एनईएलटी दूरसंचार की प्रति।

प्रतिलिपि:—
1. अपर अनुभव मुख्य वन संरक्षक (भू-प्रबंध), छ.म. रायपुर की ओर सुविधा दादर सम्प्रसंगीत।
2. मुख्य वन संरक्षक, जगदलपुर बुटा, जगदलपुर की ओर सुविधा सम्प्रसंगीत।
the area after. Hence, no major changes in existing topography are envisaged.

Another important aspect is soil erosion from slopes, if not managed properly. Soil erosion may also be accelerated on areas where the overburden from the ore excavation operation will be dumped. As there is neither a toxic effluent nor solid waste from the mine, quality of soil is not expected to be adversely affected.

11.00 BLOCK COST

The block cost for the soil conservation for the proposed area of 33 Ha has been considered as follows.

<table>
<thead>
<tr>
<th>SL.NO</th>
<th>Soil Conservations Measures</th>
<th>Area (Ha)</th>
<th>Cost (INR) in lakhs</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Development of green belt along the periphery of 33 Ha plot boundary. The cost includes cow dug, agriculture waste, kitchen waste &amp; insecticide and spreading of locally available grass propagates/fodder seed over the top soil area</td>
<td>3.3</td>
<td>7.6</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Development of envisaged large green belt area besides proposed MRS area with 320 mm bed height includes cost of cow dug, agriculture waste, kitchen waste &amp; insecticide and spreading of locally available grass propagates/fodder seed over the top soil area.</td>
<td>2.75</td>
<td>6.4</td>
<td>Cost has been considered on the basis of EIA/EMP Report</td>
</tr>
<tr>
<td>3</td>
<td>Development of green belt inside the plant premises cost includes of cow dug, agriculture waste, kitchen waste &amp; insecticide and spreading of locally available grass propagates/fodder seed over the top soil area.</td>
<td>4.74</td>
<td>11.0</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Removing of top soil including grass and/or inequalities to required depth not exceeding 300 mm and disposal of same including rubbish etc up to a lead of 5 km</td>
<td>0.3</td>
<td>1.95</td>
<td>Already considered in the project under package BP-01</td>
</tr>
<tr>
<td></td>
<td><strong>Sub Total</strong></td>
<td></td>
<td><strong>27.0</strong></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Providing appropriate site drainage with RCC drains (both side of the road)</td>
<td></td>
<td></td>
<td>Already considered in the project under package BP-05</td>
</tr>
<tr>
<td>6</td>
<td>Box culvert/pipe culvert</td>
<td></td>
<td></td>
<td>Already considered in the project under package BP-01</td>
</tr>
</tbody>
</table>
QUESTIONNAIRE FOR ENVIRONMENTAL APPRAISAL

XIX. Expenditure on Environmental Measures-
A. Total cost of the project (Rs. Lakhs): 159500

B. Cost of environmental protection measures (Rs. Lakhs)

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Head</th>
<th>Recurring Cost per annum</th>
<th>Capital Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Air Pollution Control</td>
<td>10</td>
<td>300</td>
</tr>
<tr>
<td>2</td>
<td>Water Pollution Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Noise Pollution Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Environment Monitoring and Management</td>
<td>5</td>
<td>25</td>
</tr>
<tr>
<td>5</td>
<td>Reclamation borrow/ mined area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Occupational Health</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Green Belt/Plantation</td>
<td>5</td>
<td>25</td>
</tr>
<tr>
<td>8</td>
<td>Others (Misc)</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>20</td>
<td>370</td>
</tr>
</tbody>
</table>

C. Details of Organizational set up/cell for environmental management and monitoring:
Enclosed as Annexure 9

D. Details of community welfare/peripheral development programme envisaged/being undertaken by the project proponent:

**Literacy and Education:** Residential school at Nagarnar, Industrial Training Institutes (ITIs), Polytechnic College at Dantewada, Siksha Sahayog Yojana, Balika Siksha Yojana

**Healthcare & Hygiene:** Free medical treatment at Project Hospitals, Hospital on Wheels, Financial support for establishing a Medical College at Jagdalpur, Medical Camps

**Infrastructure:** Roads and Bridges

**Provision of Drinking Water**

**Skill Development** for sustainable income generation in Chhattisgarh: Traditional crafts training, Kaushal Vikas Karyakram, Employable skills in construction activities, Skill Development Training program in Bamboo, Bell Metal & Tumba art, Livelihood-linked Learning Programs.
ANNEXURE - 3

लेखक: श्री राजीव

संयोजन: प्रमोद बिद्यालय


date: जून 2011

अन्तर्निहित
NMDC LIMITED
CORPORATE ENVIRONMENTAL POLICY

NMDC Limited is engaged in mineral exploration, mining, processing of ores. The core areas are in the iron ore mining and processing at Balladla Iron Ore Mine Kiramand complex (Deposit-11A), South Bastar Dantewada Dt. Chhattisgarh and Donimalai Iron Ore Project; Donimalai; Bellary Dt. Karnataka. NMDC is also operating Diamond Mining Project at Majhagewran, Panna Dt. Madhya Pradesh and Sponge Iron Unit at Faloncha KhammamDt Andhra Pradesh. As a pioneer mineral development organisation, NMDC is coming up with Integrated Steel Plant at Nagarnar; Bastar Dt. Chhattisgarh and other mechanized mining projects such as Kumareswamy Iron ore Mine; Bellary Dt. Karnataka, Limestone mining at Arki; Solan Dt. Himachal Pradesh, Magnesite Mine with DBCM Plant at Penthal; Reasi Dt. Jammu, J&K, Balladla Iron Ore Project; Deposit-13; Kirandul; South Bastar Dantewada Dt. Chhattisgarh and Coal mining at Shehpur Coal blocks; Umaria and Shandol Districts, Madhya Pradesh and mineral beneficiation cum Pelletisation Plants at Donimalai in Karnataka and at Bacheli/Kiranand/Nagarnar in Chhattisgarh.

We shall therefore endeavour to:

- Prevent and control environmental pollution due to mining and associated activities by adopting safe, scientific and environmentally friendly methods of mining and mineral processing for applicable legal requirements like forest, environmental and other statutory clearances.
- Maintain the machineries in excellent condition to ensure minimum impact of their operation on environment.
- Conserve the natural resources by ensuring minimum wastage of our products "Iron Ore and Diamond", optimum consumption of electricity, fuel oil, lubricant oil and water.
- Monitor and ensure compliance of all applicable environmental & forest clearance conditions. It shall report to Board of Directors and concerned stakeholders.
- Promote environmental awareness amongst employees, local communities and interested parties through proactive communication and training.
- Continual Environmental performance improvement through framing objectives.
- Management will review the suitability and effectiveness of environmental objectives and targets through its periodic management review process.

The policy shall be communicated to employees at all levels, local communities and stakeholders for its compliance.

Place: Hyderabad
Date: 6.9.2011
Chairman-cum-Managing Director
कमांड/एनएमडीसी/स्लरी पाईपलाइन सैलान /ईसी/2017/अजमेरपुर/255  दिनाक  13/08/2017

प्रति,

1 - श्रीमान कलेक्टर दक्षिण बर्तर दरोगा।

2 - म्हाप्रविधक जिला उपरोग कंट्रो दक्षिण बर्तर दरोगा।

3 - सी.एम.ओ., बड़े कबीली मार्ग पालिका बड़े कबीली, दक्षिण बर्तर

विषय:- 40 एम.टी.पी.ए. लॉग अयंकर्ष प्रस्तावित संरचना के पर्यावरण स्वीकृति के संबंध में।

भारत सरकार, पर्यावरण, बन और जलविद्युत परिवर्तक मंत्रालय, नई दिल्ली के पत्र कमांड F.No.J-11015/45/2014-IAdd(M) दिनाक 27.04.2017 द्वारा चैटी, जिला दक्षिण बर्तर दरोगार, छत्तीसगढ़ की तीन अयंकर संरचना (Iron Ore Beneficiation Plant (4.0 MTPA) को पर्यावरण स्वीकृति दी गई है।

पर्यावरण स्वीकृति की परम्परा, बन और परिवर्तक मंत्रालय, भारत सरकार की वेबसाइट: http://envfor.nic.in) पर देखा जा सकता है।

पर्यावरण स्वीकृति की प्रति आपके आवलोकनाध्याय सादर प्रस्तुत है।

भवनीदी

(हार्दिक अन्न)
महाप्रविधक
सर्वाधिकार को सूचना

इस द्वारा सर्वाधिकार को सूचित किया जाता है कि भारत सरकार, पर्यावरण वन और जलवायु परिवर्तन मंत्रालय, नई दिल्ली के पत्र क्रमांक F.No. J-11045/45/2014-IA II (M) दिनांक 27.04.2017 द्वारा बच्चन, जिला दक्षिण वस्तर, दन्तेवाड़ा, छत्तीसगढ़ में लोह अयस्क प्रसंस्करण संयंत्र (Iron Ore Beneficiation Plant (4.0 MTPA)) की पर्यावरण स्वीकृति जारी की है। पर्यावरण स्वीकृति की प्रतिलिपि छत्तीसगढ़ राज्य पर्यावरण संरक्षण मंडल के कार्यालय में उपलब्ध है तथा इसे पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, भारत सरकार की वेबसाइट (http://envfor.nic.in) पर देखा जा सकता है।

क्षी अजीत कुमार
महाप्रबंधक
The text on the page is in Amharic. It appears to be a legal or administrative document, possibly a notice or announcement. The text is written in a formal style, typical of government or official documents. The details of the content are not clear due to the resolution of the image.
NMDC/SPL/OPP/EC/303

Dated: 19/06/2017

To,

Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building Civil Lines,
Nagpur

Sub: Grant of Environmental Clearance w.r.t 4 MTPA Iron Ore Beneficiation Plant reg.

Sir,

Ministry of Environment, Forest & Climate Change, New Delhi vide its letter NO. F. N. J-11015/45/2014-II (M) dtd. 27/04/2017 has granted Environmental Clearance (EC) to 4 MTPA Iron Ore Beneficiation Plant at Bacheli Complex, District South Bastar Dantewada, Chhattisgarh to M/s National Mineral Development Corporation Limited. A copy of the EC letter is enclosed as Annexure-1 for your kind information.

The information w.r.t above EC was published in two local News Papers i.e. “Bastar Impact” & "Danik Jagran". A copy of the newspaper advertisement in the above newspapers is enclosed as Annexure-2.

Encl: As above (9 Sheets)

Regards

V. Ajit Kumar
General Manager