No.16/4/2020-M.VI
Government of India
Ministry of Mines
*****

Shastri Bhawan, Dr. Rajendra Pd. Road,
New Delhi-110 001
Dated: 3rd June, 2020

ORDER

WHEREAS the Ministry of Mines is entrusted with the development and regulation of the Mines and Minerals through administration of the Mines and Mineral (Development & Regulation) Act, 1957 and in terms of provisions of sub-section 2(i) of section 20A of the said Act is empowered to issue direction for improvement in procedure for grant of mineral concessions and to ensure co-ordination among agencies entrusted with according statutory clearances.

AND WHEREAS, the successful bidders in auction of mineral blocks are required to obtain several statutory clearances from various authorities of the Central and State Government before starting the mining operations.

AND WHEREAS the Central Government after careful consideration of the matter, is of the opinion that national interest requires that all States should strive to get pre-embedded clearances for the mines which are ready for auction to promote ease of doing business in the mining sector and to expedite the auction process as well as operation of mining lease by a successful bidder in auction.

NOW THEREFORE, the Central Government in exercise of the powers conferred under section 20A of the MMDR Act, 1957, in the national interest directs the State Government to follow the guidelines for pre-embedded clearances annexed with this order and implement the same in letter and spirit.

3/6/2020

(Satendra Singh)
Joint Secretary to the Government of India
Tel:011-23384886

Encls:- Pre-embedded guidelines (3 pages)

1. Chief Secretaries of the all States.
2. Administrators of Union Territories

Copy for Information to:

1. PS to Hon'ble Minister of Mines
2. PS to Hon'ble Minister of Steel
3. PS to Hon'ble Minister of Coal
4. PS to Hon'ble Minister of Environment, Forest and Climate Change
5. PPS to Secretary (M), PPS to Secretary (Steel), PPS to Secretary (Coal) PPS to Secretary (MOEF &CC)
6. PPS to AS (M)

Government of India
Ministry of Mines

Guidelines for auction of mineral blocks with pre-embedded clearances for mining projects

Ministry of Mines is committed to provide a conducive working environment for development of mines and minerals to ensure optimum utilization of the mineral resources in the country, while ensuring ecological safeguards, thereby contributing towards higher economic growth and resultant employment generation and also increased revenue to the State Governments in a sustainable development framework.

2. In compliance with various court judgments, the Mines and Minerals (Development & Regulation) Act, 1957 was amended in 2015 to include provisions of the auctions as a methodology for allocation of the mineral resources. So far, 95 mining leases have been allocated through auction since 2015. However, it has been observed that due to various processes involved , the time taken to operationalize the mines into production gets dragged on. The major challenge in this regard is to speed up the present procedural processes involved in obtaining statutory clearances from various authorities of the Central and State Governments by the successful bidder. As many as 20 clearances are to be obtained by the successful bidder before signing the mining lease and often lead to delays in starting of mineral production.

3. Ministry of Mines has examined the ways to speed up the time taken for obtaining clearances to ensure early production. As a major policy intervention, the Ministry has recently amended the MMDR Act 1957 through Mineral Laws Amendment Act 2020 wherein the valid rights and approvals of the previous lessee of brown field mineral projects are facilitated to be transferred to the new lessee for a period of two years. During this period, the new lessee has to obtain all the clearances afresh. This is also a pre-embedded clearance mechanism for a limited period.

4. To extend this facility also to green field projects with a wider scope, this Ministry seeks to make provision for auction of mineral blocks with pre- embedded clearances. This will help to overcome the delays in operationalization of mines into production after the auction. This will improve the business environment and improve mining sector contribution to the country's GDP and will bring greater participation of companies, ensuring better rates of auctions .This will also ensure higher revenues for the State Governments in auction as the mineral blocks can start production immediately after allocation. Auction of blocks with pre-embedded clearance will also be a positive step towards achieving the objectives included in "Ease of Doing Business". State Governments are important stakeholders in this initiative and with transferring of auction process to the States, they are also seeking similar improvements for economic growth of the respective States

contd../-

5. Out of the 20 approvals required to start mining operations, the most important are Environment and Forest Clearances. Ministry of Mines has had several rounds of discussion with MOEF&CC for setting up a mechanism of pre-embedded clearances and transfer of clearances to an allottee. As a result of this, MoEF&CC has issued guidelines in this regard on 29.04.2020. MOEF&CC has clarified that the State Government can apply as the project proponent for obtaining EC / FC and subsequently can transfer clearances so obtained to the successful bidder. **(Annexure I)**

6. To take the auction of mineral blocks with pre-embedded clearances further, Ministry of Mines discussed the matter with the States. Accordingly, it has been decided that the States should implement this mechanism on pilot basis in respect of identified mineral blocks, which could be auctioned with pre- embedded clearances.

7. The following guidelines are issued in this regard:

i. Each State should identify at least five mineral blocks for auction with pre-embedded clearance.
ii. The State Government may set up a Project Monitoring Unit (PMU) to complete the preparatory work for obtaining the requisite clearances / approvals and related work. The PMU will become the applicant for all the clearances required to start the mining operations.
iii. Since Mining Plan is the basic document to start mining operation on which hinges the EC and FC, the PMU under the State Government should get the Mining Plan prepared by engaging a qualified person (QP) as per the revised proforma prescribed by Indian Bureau of Mines which is attached with this document (Annexure II). The PMU should approach the Indian Bureau of Mines for approval of such mining plan/scheme of mining. Indian Bureau of Mines will approve the mining plan/scheme of mining submitted to them by the PMU within a period of fifteen days, allowing successful bidder the flexibility to either enhance or reduce the production limit by 25%.
iv. FC has two stages. Details are available on the PARIVESH portal of MOEF&CC (https://parivesh.nic.in). Up to FC Stage-1,no financial commitment is required or levy is to be paid, except for bearing the cost of enumeration of trees on forest land sought for diversion and some sundry expenses. High costs are involved at FC stage-II. It is understood that PMU may not be able to deposit huge sums on account of NPV, compensatory afforestation, cost of trees and other related levies and charges as applicable in FC Stage-II. Hence, PMU will obtain FC stage-I only. And, the successful bidder will make payments accordingly and obtain FC Stage-II. Expenditure

contd./-

incurred by PMU towards processes to be completed for obtaining FC Stage-I including demarcation of land and enumeration of trees etc. shall be initially borne by the State Government and subsequently recouped by charging from the successful bidder at the time of execution of mining lease or transfer of clearance, whichever is earlier.

v. For EC, the PMU will complete the process and obtain the same along with FC Stage-I. Any expenditure involved in the processes including payments to EIA consultant, cost of getting Environment Public Hearing conducted and other related expenses will be initially borne by the State Government and subsequently recouped by charging the same from the successful bidder at the time of signing mining lease or transfer of clearance, whichever is earlier.

vi. The PMU should simultaneously obtain EC and prior approval for FC Stage -I clearance for diversion of forest land for non-forest purpose for the operation of mining as per the guidelines issued by MoEF & CC dated 29.04.2020. While giving EC, there should be flexibility for the successful bidder to either enhance or reduce production limit by 25%, without requiring him to obtain fresh EC approval.

vii. Since obtaining land rights for mining is another time consuming process, the PMU should get the land rights for mining in case of both government as well as privately owned land.

viii. The State government should also apply and obtain all other clearances which are required for the lessee to start the mining operations. The list of clearances are at Annexure III. The fees for obtaining these clearances shall also be initially borne by State Government and subsequently recouped by charging it from successful bidder at the time of signing mining lease or transfer of clearances, whichever is earlier.

ix. Appropriate provisions should be made in the bid document for auction for charging from the successful bidder all the expenditure incurred by the State Government on account of the engagement of PMU and also for obtaining clearances / approvals.

x. The above clearances may be transferred to the successful bidder seamlessly so that mining operations start without any delay.

8. These identified mineral blocks with pre-embedded clearances may be auctioned along with the other mineral blocks without pre-embedded clearances. Based on the experience from auction of the identified mineral blocks on pilot basis, further step will be taken towards mainstreaming the concept of auction with pre - embedded clearances of National Mineral Policy,2019 approved by the Cabinet.

9. These guidelines have the approval of the competent Authority.

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ANNEXURE-I

MINING PLAN For Embedded Clearance

Mine Code :	**Name Of applicant :**
Name Of Block :	**Type Of Document :** For Pre Embedded Clearance
Period Of Document : Five years	

INTRODUCTION

Cover Page

Mine Code (Temporary)	
Name of the Applicant	

Block Details			
Name of the Block			
State			
District			
Tehsil/Taluk/Mandal			
Village			
Block Area (ha)			
Forest Area (ha)	Private Area (hect)	Government Area (hect)	
Name of Minerals			
Name of Associated Minerals			
Type of Working (Open Cast/Underground/both)			
Nature of Use (Captive/non captive)			
Category of Mine (A/B)			

Mining Plan Submission Criteria Details	
Type of Document	For Fresh Grant
Rule	16(2) M(OHA)C Rules 2016

Reference letter number of State Government Letter with date	

Land Ownership Details						
Sl. No.	Village	Taluka	Area (ha)	Khasra Number	Type of Land	Nature of Land

Mine Location Details	
Toposheet Number	Boundary Pillar Latitude Longitude as per DGPS(as per auction rules)

*the boundary Pillar co-ordinates should be furnished in the form of an excel file.

Qualified Person Detail

Sl. No.	Name and Address of Qualified Person	PAN Number	Mobile Number	Email	Experience in Years

GEOLOGY & EXPLORATION

Geology

Regional Geology

Regional Geology	Details of Regional Geology

Topography	
Terrain	
Relief Highest Level(m) from MSL	
Relief Lowest Level(m) from MSL	
Drainage Pattern	
Specify If any other	
Order of Stream	

Minimum Distance of Stream/water body/railway line/roads/reservoir/HTL/wild life/Reserve Forest/habitation/archeological monument from Lease Area(meters)	
Local Geology & Structure	
Local Geological Set-up	
Structure	
Lithology, Petrographic & Mineralogical Description for Major, Associated & Indicator Minerals	All rock types available in the area + deleterious Constituents
Mode of Occurrence & Controls of Mineralization	
Extent of Weathering / Alteration	
Nature/Form of Mineral (Lump/fines/flakey)	
Specify if any other	
Extent of Mineralization	
Deposit Type (as per MEMC rules)	
Strike / Trend of the Mineral Body (fold fault)	
Amount of Dip of the Mineral Body	
Dip Direction of the Mineral Body	
Plunge of Mineral Body (if any)	
Direction of Plunge	
Bulk Density(Tonnes/cubic meter)	

Details of Previous Exploration done	
Name of the Agency	

Drilling

Sl. No.	Area Covered (ha)	Min (m)	Max (m)	Avg (m)	Number of Holes	Meterage (m)	Latitude	Longitude	Type of Hole Core/non-Core

Sl. No.	Year	Depth From (m)	Depth To (m)	Litho Unit Exposed	Average Grade (%)	Running Meters (m)	Bore Hole Inclination (°)	Collar R.L (m)	Bottom R.L (m)

Pitting:

Sl. No.	Year	Pit ID	Length of Pit (m)	Width of Pit (m)	Depth of Pit From(m)	Depth of Pit To(m)	Depth of Pit (m)	Litho Unit Exposed	Litho Unit From (m)	Litho Unit To (m)	Average Grade (%)	Running Meters (m)

Trenching:

Sl. No.	Year	Trench ID	Length of Trench From (m)	Length of Trench To (m)	Length of Trench (m)	Width of Trench (m)	Depth of Trench (m)	Litho Unit Exposed	Average Grade (%)	Running Meters (m)

Exploratory Mining:

Sl. No.	Year	Number of Pits	Volume (m^3)

Area Already Covered under Exploration:

Area (ha)	
G1	
G2	
G3	
G4	
Total (G1+G2+G3+G4)	

ORE BODY GEOMETRY & GRADE												
Sl. No.	General Strike / Trend	Dip Of Mineral Body	Average Strike Length (m)	Average Width (m)	Average Depth (m)	Min Grade (%)	Max Grade (%)	Avg Grade (%)	Cut-off Grade	Provide Justification for Defining Cut-off Grade Max Size (mm)		

Resource/Reserve Estimation	
Methodology	
Resource / Reserve Estimation Method	
Methodology	

Grade Range	

Prefeasibility / Feasibility Report (as per MEMC 2015)	
Mineral Resource Estimate for Conversion to Mineral Reserve	
Cut off Parameters	
Mining Factors or Assumptions	
Metallurgical Factors or Assumptions.	
Cost & Revenue Factors	
Market Assessment	
Other Modifying Factors	
Classification	

Resources Blocked Under Statutory Barriers		
Particulars	G-1 (t)	G-2 (t)
7.5 m Barrier Zone		
Blocked in Bench Slope		
Blocked due to Public Structures, habitation,monuments,waterbodies etc.		
G-1 (t)		
G-2 (t)		
Total		

Reserve and Resource Calculation Methodology:

1. Cross Section Area Method

Section Name	Area (m^2) (2)	Influence (m) (3)	Volume (m^3) (4=2*3)	Bulk Density (t/m^3)(5)	Quantity (t) (6=4*5)	UNFC Class	Type of Land	Grade (%)	Remarks

2. Plan Area Method for Mineral Zone (Horizontal Plan)

Sl. No.	Pit No/ Bore Hole	Influence Area (m^2)	Depth (m)	Volume (m^3)	Bulk Density (t/m^3)	Reserve Quantity (t)	UNFC	Type of Land	Grade (%)	Action

Reserves Estimated as on dd/mm/yyyy	
Mineral	

Give separate tables for each mineral

Classification	Code	Quantity (t)			Average Grade (%)		
		Forest	Non-Forest	Total	Forest	Non-Forest	
A. Mineral Reserve							
1. Proved	111						

Classification	Code	Quantity (t)			Average Grade (%)		
		Forest	Non-Forest	Total	Forest	Non-Forest	
Mineral Reserve (A)							
2. Probable Mineral Reserve (A)	121						
3. Probable Mineral Reserve (A)	122						
Total Mineral Reserve (A)							
B. Remaining Resources							
1. Feasibility Mineral Resource (B)	211						
2. Prefeasibility Mineral Resource (B)	221						
3. Prefeasibility Mineral Resource (B)	222						
4. Measured Mineral Resource (B)	331						
5. Indicated	332						

Classification	Code	Quantity (t)			Average Grade (%)		
		Forest	Non-Forest	Total	Forest	Non-Forest	
Mineral Resource (B)							
6. Inferred Mineral Resource (B)	333						
7. Reconnaissance Mineral Resource (B)	334						
Remaining Total Mineral Resources (B)							
Total Mineral Resources (A + B)							

** Attach Reserve and Resource Calculation sheet as annexures.

Studies Undertaken	
Blast Vibration Study Report	
Slope Stability Study Report	
Recovery Study Report	
Hydrological Study Report	
Mineral Beneficiation Study Report	

Underground Rock Displacement Study Report	
Subsidence Study Report	
Underground Geotechnical Study Report	
Any Other Study Report	
Bulk Density Study Report	

MINERAL BENEFICIATION / PROCESSING	
Name of the Mineral	
Furnish existing mineral Beneficiation flowsheet indicating material and metallurgical balance.	
Indicate in Brief the Proposed Mineral Beneficiation Scheme:	

EXISTING INVENTORY

Pits

Sl.No.	Pit ID	Pit Status	Area Covered by Pit (ha)	Pit Dimension (m x m x m)

Waste dumps

Sl. No.	Dump ID	Dump Status	Type of Dump	Total Dump Quantity (t)	Area Covered by Dump (ha)	Height (m)	Location

Mineral Stack Details					
Sl. No.	Stack ID	Type of Stack	Total Stack Quantity (t)	Area Covered by Stack (ha)	Height (m)

MINING OPERATIONS

Mining Method

Opencast Mining

Existing Method of Mining	
Proposed Method of Mining	
Reasons for Proposed Changes(if any)	

Operational Parameters

Opencast Mining

Bench Parameters

Part 1

Pit Id	Year	Maximum Height of the Benches in Over Burden (m)	Minimum Width of the Benches in Over Burden (m)	Slope of the Bench in Overburden (degree)	Maximum Height of the Benches in Mineral (m)	Maximum width of the Benches in Mineral (m)	Slope of the Bench in Mineral (degree)	Overall Slope of Pit (degree)	Number of Benches in Top Soil	Number of Benches in Over Burden

Part 2

Number of Benches in Mineral	Maximum Depth of Workings (m)	Depth of Water Table (m)	Maximum Slope Angle of Haul Roads (1 in)	Diameter of Drill Hole (mm)	Depth of Drilling Including Sub-Grade Drilling (m) (if any)	Spacing of the Holes (m)	Burden of the Holes (m)	Powder Factor (in kg / t)

Year Wise Opencast Development

Part 1

Sl No	Year	Pit ID	Bench	Direction	Bulk Density Of OB (BD1) (t/m³)	Bulk Density Of Mineral (BD2) (t/m³)	Topsoil Length (m)	Topsoil Width (m)	Topsoil Height (m)	Topsoil Volume (m³)	OB Length (m)	OB Width (m)	OB Height (m)	OB Volume (m³)	OB Quantity (t)

Part 2

Mineral Length (m)	Mineral Width (m)	Mineral Height (m)	Total ROM Volume (m³)	Total ROM Quantity (t)	Recovery Factor in %	Mineral Reject (t)	Mineral Production Main (t)	Mineral Production Associated (t)	Location of Advancement	OB to Ore Ratio

Sl. No.	Pit ID	Total Topsoil Volume (m³)	Total OverBurden Volume (m³)	Total OverBurden Quantity (t)	Total ROM Volume (m³)	Total ROM Quantity (t)

Transportation And Hauling Equipment

Machine Details

Loading machine Details

Dumper/ Trucks				
Sl.No.	Type	Make	Capacity (t)	Number of Equipment

Excavators/loaders					
Sl. No.	Type	Make	Capacity	Unit	Number of Equipment

Dozer and Rippers				
Sl.No.	Type	Make	Capacity (hp)	Number of Equipment

Drilling machine				
Sl.No.	Type	Make	Rate of Drilling (m/h)	Diameter of Hole (mm)

Supervision						
Sl. No.	Particulars	Qualification	Requirement / Proposed	In Position / Existing Strength	(-) Shortage /(+) Excess	Remarks

Material Handling Summary

Insitu Mining

Opencast

Sl. No.	Years	Total Handling (t)	Waste Quantity (t)	RCOM Quantity	Saleable Mineral from ROM (t)	Mineral Reject from ROM (t)	Subgrade Mineral from ROM(t)	OB to Ore Ratio (Waste Quantity / ROM Quantity)	Grade Range (%)

Dump Re-Handling

Sl. No.	Year	Dump Id	Location Latitude	Location Longitude	Area (m^3)	Avg Height of Dump (m)	Volume (m^3)	Bulk Density of dump material	Total Dump Quantity (t)	Proposed Dump Handling Quantity (t) (A)	Proposed Recovery of Saleable Mineral (t)(B)	Proposed Waste Quantity (t) (A-B)	Grade Range (%)	Justification

Calculation Summary

Year	Insitu Mining		Calculation Summary	
	Handling Quantity (A)(t) (ROM)	Saleable Ore (B)(t)	Proposed Dump Handling Quantity (C)(t)	Recovery of Saleable Mineral (D)(t)

Total Handling Quantity (A + C) (t)	
Total Saleable Quantity (B + D) (t)	

Machine Calculation

Machine Requirement

Number of Average Working Days in One Year(A)	
Number of Shifts per Day(B)	

Material Handling Required per Day((D) = Largest of < Q1 to Q5 > / (A))	
Material to be Handled per Shift((E) = (D) / (B))	
Handling Required per Hour (t)((F) = (E) / (C))	
Effective Shift Timing (HH:MM)	

Shovel / Excavator Requirement

Sl. No.	Type	Bucket Capacity (m^3)(A)	Fill Factor (B)	Swell Factor (C)	Tonnage Factor (m^3/t) (D)	Efficiency (%) (E)	Cycle time (sec) (F)	(G) TPH =TPH (G) =((3600 x A x B x C x D x E) / F)/1000	Effective Shift Timing (HH:MM)	Total Hours (H) =Number of working days x Number of shifts/day x Effective shift hours	Yearly handling by one Excavator (t) (I)=(G x H)	Maximum handling of the material by this machine during the block period (t) (J)	Number of excavator machines required (K) = (J / I)	Standby excavator (L)

Dumper Requirement

Sl. No.	Effective Shift Timing (HH:MM)	Total Hours=No of working days (W)x Number of shifts/day x Effective shift hours (Machine Requirement Summary) (A)	Capacity of Dumpers (t) (B)	Speed of the dumper (KMPH) (i)	Lead Distance (KM) (ii)	Time taken to cover distance in minutes(iii) =(ii/i) x 60	Queuing, Loading Time at Shovel (min) (iv)	Queuing, Unloading Time during unloading (min) (v)	Total Time to complete one trip(vi) = (iii + iv + v)	No. of Trips / hr = (60 / vi)	Total transportation per hour =(B X vii)	Yearly handling by one dumper (ix) = A x TPH	Maximum handling of the material by this machine during the block period (t) (x)	No of dumpers will be (xi) =(x / ix)	Plus Standby dumper (xii)

Drill Machine Requirement

Sl. No.	Type of Drill	Depth of Hole(including Sub-grade Drilling (m)	Spacing (m)	Burden (m)	Bulk Density of Waste (t/m^3)	Bulk Density of Mineral (t/m^3)	Yield per Hole (t)	Yield per Meter (t/m)	Annual Target Known (t)	Effective working hours in shift (HH:MM)	Drilling Requirement per Day (m)	Drilling Requirement per Shift (m)	Rate of Drilling per Hours (m/hr)	Required Number of Drills (m/c)	Stand by Drill

Blasting Requirement

Blasting & Explosive Requirement in Waste/Development

Sl. No.	Drill Pattern / Spacing of Holes (m)	Burden of Holes (m)	Number of Rows / Rings	Yield per Holes in Waste (m^3)	Frequency of Blasting in a Week	Maximum Number of Holes Blasted in a Round	Charge per Hole (kg)	Charge per Round (kg)	Explosive Requirement Per Month in Development (kg)	Powder Factor in Development / Waste (kg/t)	Depth Of Hole

Blasting & Explosive Requirement in Mineral/Ore

Part 1

Sl. No.	Total ROM proposed to be handled in CUM/annum	Total ROM proposed to be handled in CUM/ day	Spacing of Holes (m)	Burden of Holes (m)	Number of Rows	Yield per Holes in ROM Zone (m^3)	Frequency of Blasting in a Week	Maximum Number of Holes Blasted in a Round	No of Holes Required to be Blasted per Round	Charge per Hole (kg)	Charge per Round (kg)

Part 2

Explosive Requirement Per Month for ROM Zone Blasting (kg)	Type of Explosive Magazine	Type of Explosives used / to be Used	Powder Factor in Ore (kg/t)	Pop Shooting (no of Boulders)	Plaster Shooting (no of Boulders)	Use of Rock breaker	Capacity	Secondary Blasting Requirements	Depth Of Hole

Proposed Man Power Deployment

Managerial

Sl. No.	Particulars	Number of Person in Shift 1	Number of Person in Shift 2	Number of Person in Shift 3	Total Number of Person per Day

Supervisory

Sl. No.	Particulars	Number of Person in Shift 1	Number of Person in Shift 2	Number of Person in Shift 3	Total Number of Person per Day

Skilled Workers / Operators

Sl. No.	Particulars	Number of Person in Shift 1	Number of Person in Shift 2	Number of Person in Shift 3	General Shift	Total Number of Person per Day

Semi-skilled Workers

Sl. No.	Number of Person in Shift 1	Number of Person in Shift 2	Number of Person in Shift 3	General Shift	Total Number of Person per Day

Unskilled Workers

Sl. No.	Number of Person in Shift 1	Number of Person in Shift 2	Number of Person in Shift 3	General Shift	Total Number of Person per Day

Others Specify

Sl. No.	Particulars	Number of Person in Shift 1	Number of Person in Shift 2	Number of Person in Shift 3	General Shift	Total Number of Person per Day

Waste Management

Proposed Waste Dumping on existing Dumps

Sl. No.	Year	Dump Id	Type of Dump	Proposed Area (ha)	Height (m)	Total Dump Quantity (m^3)	Existing Dump Location

Proposed New Waste Dumps

Sl. No.	Year	Dump Id	Type of Dump	Proposed Area (ha)	Height (m)	Total Dump Quantity (m^3)	New Dump Location

Proposed Dumping on existing Stacks (Mineral/Mineral Rejects)

Sl. No.	Year	Stack ID	Type of Stack	Proposed Area (ha)	Height (m)	Total Stack Quantity (m^3)	Existing Stack Location

Proposed New Stacks (Mineral/Mineral Rejects)

Sl. No.	Year	Stack ID	Type of Stack	Proposed Area (ha)	Height (m)	Total Stack Quantity (m^3)	New Stack Location

Mineral Waste/Stacks handling to utilize as Minor Mineral or alternative use								
Sl. No.	Year	Dump Id	Type of Dump	Proposed Area (ha)	Quantity Handled (t)	Quantity Recovered (t)	Name Of Minor Mineral	Alternative Waste Utilization (m^3)

Use of Mineral					
Sl. No.	Proposed Use Of Mineral	Name Of Mineral	Relevant Use Of Mineral	Physical Specifications	Chemical Specifications

REHABILITATION

Status of Land

Area Degraded by Excavation

Area (ha)	
Post-Mining Status as Envisaged	

Area for Water Storage and Recharge Facility

Area (ha)	
Post-Mining Status as Envisaged	

Area Under Green Belt

Area (ha)	
Post-Mining Status as Envisaged	

Any Other Please Specify

Sl. No.	Area (ha)	Post-Mining Status as Envisaged

Proposed Mode of Rehabilitation

Backfilling

Quantity of Waste / Fill Material Available at Site (m^3)	
Availability of Top-Soil for Spreading Quantity (m^3)	
Spread Area (m x m)	

Cummulative work done as on Date dd/mm/yyyy

Sl. No.	Pit Id	Length	Width	Depth

Year Wise Proposal

Sl. No.	Year	Pit Id	length(m)	Width (m)	Depth (m)	Top RL	Bottom RL	Estimated Expenditure (₹)

Water Reservoir

Average Rainfall of the Area (mm)	

Preparations for Ground Water Recharging

Drilling Holes

Year 1	Year 2	Year 3	Year 4	Year 5

Year 1	Year 2	Year 3	Year 4	Year 5

Preparation of Course Gravel Bed

Year 1	Year 2	Year 3	Year 4	Year 5	Others, Please Specify

Arrangements to Secure the Excavated Area (Please Specify Running Meter)

Fencing

Year 1	Year 2	Year 3	Year 4	Year 5

Periphery Wall

Year 1	Year 2	Year 3	Year 4	Year 5

Bund

Year 1	Year 2	Year 3	Year 4	Year 5

Arrangements Regrading Proper Slope of the Pit	

Green Belt Development

Cumulative Work Done as on Date

Sl. No.	Total Expenditure Incurred up to Last Year (₹)	Area Covered (ha)	Number of Plants	Survival Rate (%)	Green Belt Location (s)

Year Wise Proposal

Sl. No.	Area Proposed to be Covered (ha)	Number of Plants Proposed	Survival Rate (%)	Estimated Expenditure (₹)
Protective Measures				

Use Of Shallow Pits to Underrake Agriculture Converting into Grazing Land

Cummulative work done (upto end of previous block of five years)

Sl. No.	Pit Id	Work Done Length (m)	Work Done Width (m)	Total Expenditure Incurred (up to Last Five year Block)(₹)

Availability of Soil for Spreading

Sl. No.	Crops	Grass	Quantity (m^3)	Spread Area Length(m)	Spread Area Width(m)

Year Wise Proposal

Sl. No.	Pit Id	Work Proposals during the Year (m x m)	Total Area (ha)	Area Proposed for Crops (ha)	Suitable Crops	Area Proposed for Grass (ha)	Total Proposed Expenditure (₹)	Remarks
Pisciculture								

Total Expenditure Incurred as on Date (₹)	

Cumulative Work done as on Date

Sl. No.	Pit Id	Length (m)	Width (m)	Depth (m)	Estimated Expenditure (₹)

Year Wise Proposal

Sl. No.	Pit Id	Length (m)	Width (m)	Depth (m)	Year	Estimated Expenditure (₹)

Source of Water for Pisciculture	
Whether the quality of Water has been Assessed & Found to be Suitable for Pisciculture	

Recreational Facility

Total Expenditure Incurred (up to Last Five year Block)(₹)	

Cumulative Work done as on Date

Sl. No.	Pit Id	Length (m)	Width (m)	Depth (m)	Estimated Expenditure (₹)

Year Wise Proposal

Sl. No.	Year	Type of Recreational Facility	Area Covered (ha)	Estimated Expenditure (₹)

Dump Area Stabilization & Development

Sl. No.	Year	Dump ID	Number of Terraces	Average Height of Terraces (m)	Length of Toe Wall (m)	Length of Garland Drain (m)	Area Stabilized (ha)	Method of Stabilization	Estimated Expenditure (₹)	No.Of Check Dams

Other Form of Reclaiming the Area

Cumulative Work done as on Date

Sl. No.	Total Expenditure Incurred as on Date (₹)	Work Done

Year Wise Proposal

Sl. No.	Year	Work Proposals	Estimated Expenditure (₹)

Socio-Economic Aspects

Sl. No.	Category	Number of Estimated Persons Proposed for Relocation	Number of Persons Proposed to be Retrenched	Amount of Compensation Proposed to be Paid (₹)

CSR Initiatives Development

Year: 1

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Estimated Expenditure during the Year (₹)	Cumulative Work done / Measures Taken	Cumulative Expenditure up to Last Year (₹)
Area to be used to Develop for Recreation			
Area for Water Storage & Recharge Facility			
Efforts made towards Housing for Local Communities			

Efforts made towards Providing Transport to Local Communities			
Efforts made towards Providing Health to Local Communities			
Efforts made towards providing Hygiene & Sanitation to Local Communities			
Efforts made towards Skill Development Programs to Local Communities			
Efforts made to promote Education & Knowledge based Initiatives			
Communication facilities provided to Local Communities			
Any other steps taken for Improving the Socio-economic standard of Local Communities			
Adoption of ODF			
Provision for Greenage Recreational Facility (Within Lease Area and Outside			
Awareness Program among Mine Workers for Swatchata Number of Swatchata Programmes Held			

Year: 2

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Estimated Expenditure during the Year (₹)	Cumulative Work done / Measures Taken	Cumulative Expenditure up to Last Year (â,¹)
Area to be used to Develop for Recreation			

(ha)		(ha)	
Area for Water Storage & Recharge Facility			
(ha)		(ha)	
Efforts made towards Housing for Local Communities			
Efforts made towards Providing Transport to Local Communities			
Efforts made towards Providing Health to Local Communities			
Efforts made towards providing Hygiene & Sanitation to Local Communities			
Efforts made towards Skill Development Programs to Local Communities			
Efforts made to promote Education & Knowledge based Initiatives			
Communication facilities provided to Local Communities			
Any other steps taken for Improving the Socio-economic standard of Local Communities			
Adoption of ODF			
Provision for Greenage Recreational Facility (Within Lease Area and Outside			
Awareness Program among Mine Workers for Swatchata Number of Swatchata Programmes Held			

Year: 3

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Estimated Expenditure during the Year (₹)	Cumulative Work done / Measures Taken	Cumulative Expenditure up to Last Year (â‚¹)
Area to be used to Develop for Recreation			
(ha)		(ha)	

Area for Water Storage & Recharge Facility			
		(ha)	
Efforts made towards Housing for Local Communities			
Efforts made towards Providing Transport to Local Communities			
Efforts made towards Providing Health to Local Communities			
Efforts made towards providing Hygiene & Sanitation to Local Communities			
Efforts made towards Skill Development Programs to Local Communities			
Efforts made to promote Education & Knowledge based Initiatives			
Communication facilities provided to Local Communities			
Any other steps taken for Improving the Socio-economic standard of Local Communities			
Adoption of ODF			
Provision for Greenage Recreational Facility (Within Lease Area and Outside			
Awareness Program among Mine Workers for Swatchata Number of Swatchata Programmes Held			

Year: 4

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Estimated Expenditure during the Year (₹)	Cumulative Work done / Measures Taken	Cumulative Expenditure up to Last Year (â,¹)
Area to be used to Develop for Recreation			
(ha)		(ha)	
Area for Water Storage & Recharge Facility			

		(ha)	
Efforts made towards Housing for Local Communities			
Efforts made towards Providing Transport to Local Communities			
Efforts made towards Providing Health to Local Communities			
Efforts made towards providing Hygiene & Sanitation to Local Communities			
Efforts made towards Skill Development Programs to Local Communities			
Efforts made to promote Education & Knowledge based Initiatives			
Communication facilities provided to Local Communities			
Any other steps taken for Improving the Socio-economic standard of Local Communities			
Adoption of ODF			
Provision for Greenage Recreational Facility (Within Lease Area and Outside			
Awareness Program among Mine Workers for Swatchata Number of Swatchata Programmes Held			

Year: 5

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Estimated Expenditure during the Year (₹)	Cumulative Work done / Measures Taken	Cumulative Expenditure up to Last Year (â‚¹)
Area to be used to Develop for Recreation			
(ha)		(ha)	
Area for Water Storage & Recharge Facility			
		(ha)	

Efforts made towards Housing for Local Communities
Efforts made towards Providing Transport to Local Communities
Efforts made towards Providing Health to Local Communities
Efforts made towards providing Hygiene & Sanitation to Local Communities
Efforts made towards Skill Development Programs to Local Communities
Efforts made to promote Education & Knowledge based Initiatives
Communication facilities provided to Local Communities
Any other steps taken for Improving the Socio-economic standard of Local Communities
Adoption of ODF
Provision for Greenage Recreational Facility (Within Lease Area and Outside
Awareness Program among Mine Workers for Swatchata

Rehabilitation & Resettlement of Affected Persons

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Proposed number of Project affected persons(PAP)					
Proposed number of person for alternate arrangement for sustainable livelihood					

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Proposed number of person for skill training					
Proposed number of person likely to get employment- In house					
Proposed number of person likely to get employment- In direct					
Proposed project affected families skilled and absorbed					
Proposed number of project affected families					

Welfare & Socio-economic Development Programs for Local Communities

Support for Drinking Water & Agriculture

Drinking Water

Sl. No.	Year	Type of facility proposed (Borewell/Water tank)	Proposed Expenditure (₹)	Estimated No. of Beneficiary

Agriculture support

Sl. No.	Year	Irrigation Support Provided	Proposed Expenditure (₹)	Estimated No. of Beneficiary

Support to Health & Medical Services

Sl. No.	Year	Proposed Number of Health Camps / Medicine Camps	Proposed Expenditure (₹)	Estimated No. of Beneficiary

Support to Skill Development & Education

Sl. No.	Year	Number of Employees proposed for Vocational Training	Number of Other Persons proposed for Vocational Training	Number of Literacy & Education Camps proposed	Proposed Expenditure (₹)	Estimated No. of Beneficiary

Support to Transportation Services & Infrastructure

Sl. No.	Year	Proposed Road Development in the Peripheral Area(not Lease Area) (ha)	Number of Public Transport Support Proposed	Proposed Expenditure (₹)	Estimated No. of Beneficiary

PROGRESSIVE MINE CLOSURE PLAN

Baseline Information

Whether Area falls under Forest	
Whether Area falls under Wildlife Sanctuary	
Whether Area falls under Coastal Regulation Zone (CRZ)	
Whether Area falls under Defence Land	
Any Other Clearance (specify)	

Protective & other Works

Environmental Monitoring

Ambient Air Quality

Core Zone (Quarterly Monitoring Planned)

Station ID	Monitoring station Latitude	Monitoring station longitude

Buffer Zone (Quarterly Monitoring Planned)

Station ID	Monitoring station Latitude	Monitoring station longitude

Water Quality

Core Zone (Quarterly Monitoring Planned)

Station ID	Monitoring station Latitude	Monitoring station longitude

Buffer Zone (Quarterly Monitoring Planned)

Station ID	Monitoring station Latitude	Monitoring station longitude

Noise Level

Core Zone (Quarterly Monitoring Planned)

Station ID	Monitoring station Latitude	Monitoring station longitude

Buffer Zone (Quarterly Monitoring Planned)

Station ID	Monitoring station Latitude	Monitoring station longitude

Impact Assessment

Land Environment

Base / Present Status

Pre Mining Use	Area(ha)
Barren / Waste land with small bushes & shrubs	
Land under Agriculture / Crops	
Land covered with Plants	
Land under Grass Cover	
Land under Public Infrastructure / Utilities (water bodies, roads, railways, electric lines, telephone lines etc.)	
Land under Habitation	
Land under Monuments & places of Historical Importance	
Degraded by Pits & Excavation	
Degraded by Dumps & Material Staking	
Covered under Mine Infrastructure (plants, shades, buildings etc.)	
Land under Forest	
Historically, Culturally & Ecologically Important Places	
Any Other, please specify	

Date of Observation	

Anticipated Impact

Post Mining Use	Area(ha)
Degradation by Excavation	
Degradation by Dumps & Material Staking	
Covered under Plants, Shades & Buildings	
Covered by Roads & Approaches	
Impact Area Due to Subsidence	
Any Other, please specify	

Mitigation Measures

Backfilling	
Area proposed to be covered by Plant in Backfilled Area	
Proposed Area under Agriculture	
Proposed Area to be converted to Grazing Land	
Ground Water Recharging	
Green Belt Development	
Agriculture	

Air Environment

Climate & Meteorology (Please provide 10 year time series data)

Temperature (°C)	
Relative Humidity (%)	
Average Rainfall (mm)	

Air Quality Details for Base / Present Status

Sl. No.	Station Name	Season	SPM Value	SPM Excess	RSPM Value	RSPM Excess	SO2 Value	SO2 Excess	NOX Value	NOX Excess	CO Value	CO Excess	Free Silica Value	Free Silica Excess	RPM Value	RPM Excess	Rate of Dust Fall Value	Rate of Dust Fall Excess	Heavy Metals Value	Heavy Metals Excess	Date of Observation

Impact Assessment & Mitigation Measures

Anticipated Impact : Give details on impact on ambient noise level due to rock excavation, transportation, processing equipment's & ancillaries	
Mitigation Measure: Give details on measures to reduce the emissions of pollutants during mining, loading, unloading, transportation, drilling, blasting, crushing etc. to maintain the air quality	

Water Environment

Rain Water	
Base / Present Status : *(Details of Rivers, Springs, Lakes, Reservoirs & Drains up to First Order in Study Area)*	
Anticipated Impact: *(Impact on Surface Water Bodies / Groundwater Table Regime / Streams / Lake / Springs due to Mining, to be Assessed from Hydro-geological StudyGive details about impact on vegetation)*	
Mitigation Measure: *(Possibilities of Rain Water Harvesting & Artificial Recharge with in the Mining Lease)*	
Water Body	
Base / Present Status: *(Water Bodies Existing & Water Bodies likely to be created due to Mining Activities & their Water Holding Capacity)*	
Anticipated Impact: *(Ingress of Sea Water, Particularly for Mining Projects in Coastal Areas)*	
Mitigation Measure: *(Steps to Minimize Impact on Water Table if Mining Intercepts Groundwater Regime)*	
Water Balance	
Base / Present Status: *(Water Balance (Withdrawal of Surface Water & Release of Mine Drainage Water) Water Requirement & Waste Water Generation from various Activities of Mine, Including Beneficiation)*	
Anticipated Impact: *(Impact of Water Drawl on Surface & Groundwater Resources Impact on Surface & Groundwater Quality due to Discharges from Mining, Tailings Pond, Workshop, Township, & Leach ate from Solid Waste Dumps etc)*	
Mitigation Measure: *(Construction of Check Dams, Sedimentation Ponds, Settling Tanks, Retaining Walls etc. with Design & Site Features for Control of run-off Mine Water Treatment for Meeting*	

the Prescribed Standard Waste Water Treatment for Township Sewage, Workshop(s), Tailing Pond Overflow etc)	

Nosie

Critical Locations Identified within Lease Area	
Give Detail About Prediction of Noise Level by using Mathematical Modeling at Different Locations Identified	
Major to Minimize the Impact on Receiving Environment	

Noise Details for Base / Present Status

Sl. No.	Station Name	Season	Type of Area	At Day Time:	Excess	At Night Time:	Excess	Date of Observation
No records Found to Display!								

Impact Assessment & Mitigation Measures

Anticipated Impact *Give details on impact on ambient noise level due to rock excavation, transportation, processing equipmentâ€™s & ancillaries*	
Mitigation Measure*Give details on measures for noise abatement including point source & line source*	

Vibration

Vibration Details for Base / Present Status

Sl. No.	Station Name	Season	Distance from the Blasting Site (m)	Peak Particle Velocity (mm/s)	Air Over Pressure (DB)	Frequency (Hz)	Date of Observation

Impact Assessment and Mitigation Measures

Anticipated Impact	

(Give details on impact of vibrations including damage to materials/structures due to blasting)	
Mitigation Measure *Give details on measures for noise abatement including point source & line source*	

Care And Maintenance During Temporary Discontinuance	
Notice	
Fencing	
Blockage of access roads	
Warning on Notice Boards	
Security Personnel	
Avoid unauthorized entry	
Supervision of Dumps and Benches during closure	

FINANCIAL ASSURANCE (AREA PUT TO USE)

Consolidated View of Financial Assurance

Particular	Degraded Area at Start of Year (ha) (A)	Additional Requirement (ha) (B)	Total (ha) (C) = (A) + (B)
Area under Mining			
Topsoil stacking			

Overburden/Waste Dumping			
Mineral Storage			
Infrastructure (Workshop, Administrative Building etc.)			
Roads			
Railways			
Tailing Pond			
Effluent Treatment Plant			
Mineral Separation Plant			
Township Area			
Others to Specify			

ANNEXURE-II

F.No. 22-2/2020-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

ParyavaranBhawan,
Jor Bagh, Aliganj New Delhi – 110003
e-mail: sharath.kr@gov.in
Date: 29th April, 2020

Subject: Pr-embedded prior Environmental/Forest Clearance for the identified mineral block with proven reserves (proposed mining lease areas)– regarding

This is in reference to the discussion with Ministry of Mines dated 13.03.2020 and subsequent DO letter of Secretary (Mines), Government of India, vide D.O. No. 6/4/2020-M.VI, dated 24.01.2020 and 16.03.2020 regarding auctioning of mineral blocks with per-embedded clearances.

The matter has been examined in the Ministry and it is to inform that State Governments/Union Territory administrations, after identifying the mineral blocks with proven reserves, may apply as project proponent, seeking prior environmental clearance (EC) under the provisions of Environmental Impact Assessment Notification, 2006. The States/UTs concerned, after obtaining such prior environmental clearance from the Ministry or SEIAA, as the case may be, may transfer the said prior-EC to a new user agency (successful bidder holding Letter of Intent), identified by the States/UTs through the process of auctioning or any other legitimate means, as per the provisions of Clause 11 of EIA Notification, 2006.

Similarly, it is also informed that the existing provisions under Forest (Conservation) Act, 1980 provides for State Governments/Union Territory administration to apply as User agencies seeking prior approval for use of forest land for non-forestry purposes in respect of identified mineral blocks. After obtaining such approval, State Governments/Union Territory administrations may transfer the said approval as per the relevant provisions under Forest (Conservation) Act, 1980, and Rules & Guidelines made there under, to a new user agency (successful bidder holding Letter of Intent), identified by the States/UTs through the process of auctioning or any other process as prescribed by the government.

This issues with the approval of the Competent Authority.

29/4/2020

(Sharath Kumar Pallerla)
Scientist 'F'/Director
IA (Policy)

To
Secretary, Ministry of Mines, Government of India

Copy to:

1. PPS to Secretary, EF&CC
2. PPS to DGF&SS, MoEF&CC