

# REVIEW & UPDATION OF MINING PLAN

(Submitted for approval under Rule 17 (2) of MCR 2016)

## Including Progressive Mine Closure Plan

(Submitted Under Rule 23 of MCDR 2017)

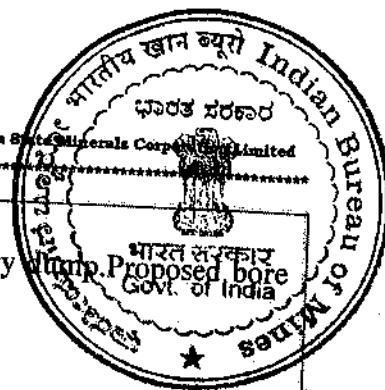


Period from :2020-21 to 2024-25

Name of the Mine	: Subbarayanahalli Iron Ore Mine,
ML.No.	: 2629
Name of the company	: Karnataka State Minerals Corporation Limited
Type of Land	: Reserve Forest
Extent	: 80.93Ha. as per ML Deed & (80.06 as per CEC)
Grant of Mining Lease	: 20 year w.e.f. 13.04.1999
Expiry Date	: 12.04.2049 , as per MMDR Amendment Act -2015
Village	: Subbarayanahalli
Taluk	: Sandur
District	: Ballari
State	: Karnataka
Category of the mine	: A (FM-Fully Mechanized), Open cast Mine
IBM Registration	: IBM/4369/2011
Mine Code	: 30KAR03069

Prepared By  
Qualified persons

RAMESHAPPA  
M.Sc (Geology)



plan period covering an area of 7.00Ha. which is covered temporary dump. Proposed bore holes details are given below

Table No.14A

Year	Number of Bore Holes	Spacing in Mtrs	Depth in Mtrs	Type of Drill	Expenditure (Approx.) Rs In Lakhs
2020-21	PBH-1	198x198	125.00	Core	10.00
	PBH-2				10.00
	PBH-3				10.00
	PBH-4				10.00
Total :-			500.00		40.00

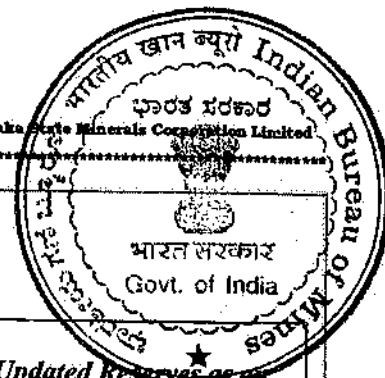
The details of proposed bore hole, location, depth etc., marked on the geological plan Plate No.4 and its corresponding cross section at plate No.4A.

j) Reserves and Resources as per UNFC with respect to the threshold value notified by IBM may be furnished in a tabular FORM AS GIVEN BELOW: (Area explored under different level of exploration may be marked on the geological plan and UNFC code for area considered for different categories of reserve/resources estimation may also be marked on geological cross sections). Submit a feasibility/pre-feasibility study report along with financial analysis for economic viability of the deposit as specified under the UNFC field guidelines may be incorporated.

#### Reserves and Resources

Reserves based on approved modification to the RUMP dated:04.03.2019

Based on the exploration information given above, resources/reserves are re-estimated on the map prepared by fresh survey of the lease area as on 14.12.2019. The fresh resources/reserves of the mine as estimated from geological plans & sections (Plate Nos. 4 & 4A) and reserves/resources estimated charts ( Annexure-16,16A & 16B) are table below



**Table No.15  
Reserves**

Classification	UNFC Code	Reserves as on 01.02.2019	Depletion of Reserves as on 30.11.2019	Updated Reserves as on 30.11.2019
1	2			5
A) Mineral Reserve				
1. Proved Mineral reserves	111	69359141	386657.23	6,89,72,483
2. Probable Mineral Reserve	121&122	-	-	29,23,416
Total (A)				7,18,95,899
B. Remaining Resources	-	-	-	
1. Feasibility Mineral Resource	211*	-	-	0
2. Pre-feasibility Mineral resource	211&222	6045046	-	6,045,046
3. Measured Mineral resource	331	-	-	0
4. Indicated Mineral resource	332	-	-	0
5. Inferred Mineral resource	333	-	-	0
6. Reconnaissance Mineral resource	334	-	-	0
Total (B)			386657.23	6,045,046
Total Mineral Resources (A+B)		75404187	386657.23	7,79,40,945

**(i) Method of reserves & resources estimation:**

Reserves calculations have been done on latest Survey Plan as base map and projecting pit geology, field and exploration data on the profile and cross sections were drawn. Based on the already carried out exploration level, the reserves and resources has been calculated. Only core drill holes are considered for reserve estimation. The proved and inferred reserves have been calculated considering the bore hole bottom, dipping of the ore body and existing working benches under UNFC classification (111) & (211).

The Reserves calculation had been made by measuring cross sectional area, multiplied by respective strike influence and percentage of recovery & bulk density which gives reserves in tonnage. The cross sectional area indicates two dimension namely, depth and width.

Whereas, the strike influence indicates length of the mineralized zone. The percentage of recovery and the average bulk density is considered based on the recent studies conducted in the mine at various ore zones. The geological plan and section gives all three dimensions for calculating the reserves.