

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/347/BNG

Mine code : 30KAR03023

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : P. Basavaraju. Mine Manager.
Official with
Designation
- (iv) Date of Inspection : 09/10/2018
- (v) Prev.inspection date : 30/05/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAINSINGPUR (90 AC)**
- (b) **Registration NO.** : **IBM/8050/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **JAISINGPUR**
- Taluka : **SANDUR**
- Post office : **JASINGPUR**
- Pin Code : **583103**
- FAX No. : **08392 - 268033**
- E-mail : **"ansmines@gmail.com,ansmines@gmail.com"**
- Phone : **08392-266939, 0839226693**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **19/06/1966**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S.ASWATHNARAYAN SINGH & CO,**
NO.54, 3rd MAIN ROAD,
PARAVATHI NAGAR, BELLARY - 583103
3. (a) **Lease Number** : **KAR0166**
- (b) **Lease area** : **56.5**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **23/03/2016**
4. **Mineral worked** : **IRON ORE** **Main**

5. Name and Address of the

Lessee : ASWATHARAYAN SINGH AND CO
 BELLARY KARNATAKA
 Phone:
 FAX :

Owner : ASWATHNARAYAN SINGH & CO.
 NO.54, 3rd MAIN ROAD,
 PARAVATHI NAGAR, BELLARY -
 583103 BELLARY KARNATAKA
 Phone:
 FAX :

6. Date of approval of Mining	:	Modif.of approved Mining Plan	03/10/2007
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06/05/2014
		Modif.of approved Mining Plan	01/06/2016
		MP modif under 17(3) MCR 2016	05/07/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposals.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals.	Nil	Nil
1e	Balance reserve as on 01/04/20	2197100 MT	2197100 MT	the reserve position as on 1.4.2016., there is a possibility of more depletion from the reserves.
1f	General remarks of inspecting officers on geology, exploration etc	Given as per the approved document.	the mine was intermittently due to which the exploration work in the past has not been taken.	the lease is expiring 2020, so the lessee has taken all possibility steps to do within the lease.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	7662	29988	The lessee undertaken more than the proposed quantity.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals.	Nil	Nil
2c	Stripping ratio or ore to OB ratio	1:0.13	1:0.4	slight difference.
2d	Quantity of topsoil generation in m3	no proposals	nil	nil
2e	Quantity of overburden generation in m3	2554 m3	9996 m3	More than the proposals.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	proposed.	The topography is very typical and difficult to work in a systematic manner due to allocation of lease on the hillock of one half with leaving 7.5m safety barrier.	Lessee working with much difficulty.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one pit only	one only	same.
3b	Quantity of ROM mineral production proposed	1,20,000 MT/ Annum	67530 MT	Under progress for the remaining period.
3c	Recovery of sailable/usable mineral from ROM production	Proposed for 87%	87%	no difference.
3d	Quantity of mineral reject generation	13%	13% only	no difference.
3e	Grade of mineral rejects generation and threshold value declared.	Below 40% Fe.	Below 40% Fe.	no difference.
3f	Quantity of sub grade mineral generation.	Not proposed.	10000t	it was generated during the period.
3g	Grade of sub grade mineral generation	proposed.	Below 40% Fe..	same no changes.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	no changes.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals.	nil	nil
3j	Provision of drilling and blasting in mineral benches	yes proposed.	yes it is used wherever required.	yes used in the benches as required.

3k	Provision of mining machineries in mineral benches	proposed	used accordingly in the benches.	yes used.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed.	yes accordingly things are used.	yes no changes.
3m	Total area covered under excavation/pits	Proposed.	5.93Ha.	yes as above.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0. 4	slight difference.
3o	Total area put in use under different heads at the end of year	25.509 Ha.	25.509 Ha.	no changes.
3p	Production of ROM mineral during the last five year period as applicable	2013-14 & 2014-15 No Production 2015-16-59436 MT 2016-17-105729 MT 2018-19-67530MT	2013-14 & 2014-15 No Production 2015-16-59436 MT 2016-17-105729 MT 2018-19-67530MT	as on date.
3q	General remarks of inspecting officers on method of mining etc.	proposed for systematic operation.	yes undertaken satisfactorily with all difficulty.	yes satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	E657817 to 657975 N1679243 to 1679384	E657817 to 657975 N1679243 to 1679384	same no changes.
4b	Location of topsoil, OB and mineral reject dumps	J,K & L Sections(B Block)	J,K & L Sections(B Block)	as above.

4c	Number of dumps within lease area and outside of lease area	ID-1, ID-3, & ID-5 are partially outside & Partially inside. ID-2 is located inside the lease area.	ID-1, ID-3, & ID-5 are partially outside & Partially inside. ID-2 is located inside the lease area.	similar.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	J, K & L Sections (Block)	J, K & L Sections (Block)	within the proposed area.
4e	Number of active and alive dumps.	01	01	same single.
4f	Number of dead dumps.	04	04	no change.
4g	Number of dumps established.	03	03, Reef Band-1 is passing along the ID-2 and requisition is given for re handling	indicated as above.
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed.	yes retaining wall constructed.	yes done in the lease area.
4i	Length of Retaining wall or garland drain all along dumps	proposed	552 Mtrs Length	As on date.
4j	Number of settling ponds	05	04	due to problem at the site, another one not constructed.
4k	Specific comments of inspecting officer on waste dump management	proposed	Certain things are constructed to the satisfaction.	Certain things are not constructed due to site problems.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposals.	Nil	Nil

5b	Area under backfilling of mined out area	No proposals.	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals.	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposals.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposals.	Nil	Nil

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	No proposals.	nil	submitted
6b	Area available for rehabilitation (ha) .	no proposals	nil	nil
6c	afforestation done (ha).	No proposals.	nil	nil
6d	No. of saplings planted during the year	No proposals.	nil	nil
6e	Cumulative no .of plants	No proposals.	nil	nil
6f	Any other method of rehabilitation	No proposals.	nil	nil
6g	Cost incurred on watch and care during the year	No proposals.	incurred cost on general secrutity, nothing specific on the specific on the affestation.	yes nothing in specific.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals.	in annual return of 2017-18 , 1.91 ha, has been reclamation & rehabilitation.	As indicated in the annual return, though another 5.93 ha area also exploited abandoned by open cast.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals.	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposals.	yes undertaken in the back filled area.	yes done.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals.	nil	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals.	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals.	nil	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals.	nil	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposals made.	yes undertaken through the consultants.	yes undertaken.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	proposed.	whatever applicable and proposed were done accordingly.	yes done.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	0.12MMTY	0.067MMTY	as above.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	same no change.
7c	Different grade of mineral sorted out at mines.	55% Fe. To 62% Fe.	55% Fe. To 62% Fe.	no change.
7d	Any beneficiation process at mines	No proposals.	nil	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposed.	As per the proposals it has been worked.	yes working as per the proposals with all constrians.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	Nil	Nil
8b	Concurrent use or storage of topsoil	No proposals.	Nil	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed.	Yes separate dumps for waste, subgrades were done.	yes it is being done.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed.	Yes partly it is being done.	done partly.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed for part	yes done partly.3.40 Ha. of Dump Stabilized by Coir Matting & Afforestation	Yes as above.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed in R & R plan.	22.50 Ha. of Plantation done as recommended in R&R Plan	yes it is being done in phased manner.
8g	Survival rate	proposed.	70-80% only, though proposed for 100%	yes less survival due to shortage of rains.
8h	Water sprinkling on roads to control airborne dust	Proposed.	Yes done though water tankers.	yes done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Proposed.	Yes the ML is in the hilly terrain with steep slope and rugged road. the lessee under taken with difficult situations.	yes well maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes submitted AR for the year 2017-18. the monthly returns up to October, 2018.	Submitted as per the format to the satisfaction.	No remarks to furnish.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given in the format as required.	S/Shri. P. Basavaraj. mines manager, K. Prabhakar Reddy, Mining Engineer & N. Shivaprasad, Geologist.	Yes found working the mine, during the field observation on the day of inception.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given in the AR format as applicable.	Already exploited & abandoned by OC =5.93 ha, 18.45 ha =current working, 1.91 ha= Reclaimed/ rehabilitated., 15.14 ha= waste dump, 2.529 ha = plant buildings etc.,, 8.541 ha = used for other purposes. 4 ha = work under progress for PMCP.	5.93 ha exploited & abandoned by open cast is not clear, what actually done. 8.541 ha= used for any other purposes, is not specified.
9d	Scrutiny of Annual return on afforestation	Given in the format.	4500 nos WML, 2500 nos. OML, with 85% survival rate.	Survival rate may vary from 70 to 75%
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given no proposals.	nil during the year & total stacked at the end of the year 45000t <40%Fe.	same as above.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the AR format as applicable.	Opening stock = 113763t, Production for the year = 67530t & 7242t of closing stock.	Given dump working = nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given in the format.	Ex-mine price= <55%Fe=Rs. 1422/t, 55-58%Fe=2636/t, 58-60%Fe=Rs. 2743t, 60-62%Fe=Rs. 3459/t, 62-<65= rs. 3896/t of lumps. Fines Rs. 1016/t, Rs. 1821/t, Rs. 2567/t, Rs. 2818/t up to 60-62%Fe. Cost of production is Rs. 185/t., The sale values for lumps are Rs. 2550/t of 55-58%Fe Rs. 3250/t of 58-60 Rs.2900/t of 60-65%Fe Rs. 2450/t of 60-65%Fe ... for fines = Rs.1740/t of 55-58%Fe Rs. 2400/t of 58-60%Fe Rs. 2890/t of 60-62%Fe Rs. 2500/t of +65%Fe.	As reported in the annual return of 2017-18.
9h	Scrutiny of Annual return on fixed assets			

9k Scrutiny of
Annual return on
mining
machineries

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 45(7)	29/10/2018				

Date :

(C.PARAMESHWARAN)

Indian Bureau of Mines