INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No :ORI/MN/SNG/MCDR-27/BBSMine code : 400RI13052

- (i) Name of the Inspecting : SKM) SANJAY KUMAR MAHAPATRA
- Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompaning mine : Shri Atmesh Kumar Sharma, Mine Manager Official with Designation (iv) Date of Inspection : 23/09/2021
- (v) Prev.inspection date : 24/12/2020

PART-I : GENERAL INFORMATION

1.	(a)	Mine Name	:	BANDHAL
	(b)	Registration NO.	:	IBM/630/2011
	(C)	Category	:	B Manual
	(d) (e)	Type of Working Postal address	:	Opencast
		State	:	ORISSA
		District	:	SUNDARGARH
		Village	:	BANDHAL
		Taluka	:	BONAI
		Post office	:	DUNGULA
		Pin Code	:	770048
		FAX No.	:	275605
		E-mail	:	kankadhara.mining@gmail.com
		Phone	:	276186
	(f)	Police Station	:	Koira
	(g)	First opening date	:	09/06/2003
	(h)	Weekly day of rest	:	SAT
2.	Addre	ess for	:	BANDHAL MN ORE MINES
	corre	espondance		K.M& M P LTD
				AT/PO-KOIRA, SUNDERGARH
3.	(a)	Lease Number	:	ORI1005
	(b)	Lease area	:	28.02
	(c)	Period of lease	:	20
	(d)	Date of Expiry	:	13/03/2022
4.	Mine	ral worked	:	MANGANESE ORE Main

5.	Name and Address of the	
	Lessee :	KANAKDHARA MINING & MINERAL (P) LTD AT/PO-KOIRA SUNDERGARH SUNDARGARH ORISSA Phone:27686 FAX :27686
	Owner :	GHANASHYAM SHARMA AT/PO-BARBIL KEONJHAR ORISSA Phone: 276186,276712 FAX : 276186
	Geologist	
	Name :	SHRI RANJEET ROUT,Full Time
	Qualification :	M.sc (Geology)
	Appointment/ : Termination date	01/04/2015
	Manager	
	Name :	SHRI AMESH KUMAR SHARMA
	Qualification :	Diploma (Mining)
	Appointment/ : Termination date	05/06/2003
б.	Date of approval of Min Plan/Scheme of Mining	ing : Modif.of approved Mining Plan 18/02/2009 Mining Scheme rule 12 MCDR1988 19/02/2009 Mining Scheme rule 12 MCDR1988 09/04/2013 MP review under 17(1) MCR 2016 10/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	NIL	07	
1b	Exploration over lease area for geological axis 1 or 2	NIL	07	
lc	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	V K S MINING SERVICES 1.16 LAKH	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
le	Balance reserve as on 01/04/20	Reserve as on 01.09.2017 is 103068 T Resources 54113 T	99693 METRIC TONNE as c 01.04.2021 Resources 54113 T	n

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	proposed in	Development is carried out in main pit.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	generation is	and mineral are	
2c	Stripping ratio or ore to OB ratio	1:4.18 t/cu	1:4.81 t/cu	
2d	Quantity of topsoil generation in m3	Not applicable	NIL	

2e Quantity of 25100 cu.m. 3360 cu.m Due to less overburden during the production of ore. generation in m3 year 2019-20. Less OB generated. 2f General remarks development is carried of inspecting out by opencast mining officers on method as proposed. development of pit w.r.t. type of deposit etc

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	6000 METRIC TONNE DURING 2020-21	697.59 METRIC TONNE	LESS PRODUCTION DUE TO COVID AND LESS MARKET DEMAND
3с	Recovery of sailable/usable mineral from ROM production	AND 600 TONNE	697.599 TONNE ORE AND 101 TONNE REJECT	
3d	Quantity of mineral reject generation	600T	101T	
3e	Grade of mineral rejects generation and threshold value declared.	+10-25% Mn	+10-25% Mn	
3f	Quantity of sub grade mineral generation.	NOT APPLICABLE	NIL	
3g	Grade of sub grade mineral generation	NOT APPLICABLE	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	MANUAL	MANUAL	

3i Any analysis or NIL NIL beneficiation study proposed and carried out for sub grade mineral and rejects. 3j Provision of occssional short hole drilling and drilling and short hole blasting is carried out. blasting in drilling and mineral benches blasting is proposed. 3k Provision of manual mining MANUAL MINING IS CARRIED mining is proposed. machineries in mineral benches 31 Whether height 3M MINTAINED of benches in overburden and mineral suitable for method of mining proposed in MP/SOM Total area 3.5 HA TILL 2.8 HA 3m covered under THE END excavation/pits Ore to OB ratio 1:4.18 T/CUM 3n 1:4.81 T/CUM for the pit/mine during the year. Total area put toata area put 6.606 ha 30 in use under under different heads different at the end of heads at the year end of plan period i.e. 2021-22 is 8.32 ha 3p Production of 2016-17:7463 т 2016-17: 837.083 т ROM mineral 2017-18: 8001 2017-18: 896.516 т 2018-19: 1243.059 T during the last Т five year period 2018-19: 4000 2019-20: 741.376 T as applicable 2020-21: 697.599 T Т 2019-20: 5000 Т 2020-21: 6000 Т

 3q
 General remarks
 MANUAL METHOD
 MANUAL METHOD OF WORKING
 B CATOGRY MANUAL

 of inspecting
 OF WORKING
 MINES

 officers on
 method of mining
 etc.

Solid Waste Management - Dumping:					
Sl.No.	Item	Propasals	Actual work	Remarks	
4a	Separate dump	ing no topsoil	seperate dumping of OB	Sepera	

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	no topsoil generation is envisaged. seperate dumping of OB and mineral rejects are propsoed.	seperate dumping of OB and mineral rejects are carried out.	Seperate dumping of OB and mineral rejects are carried out.
4b	Location of topsoil, OB and mineral reject dumps	DUMP-I IS PROPOSED S170 TO S230 W260 TO W360	DUMP-I IS IN BETWEEN S170 TO S230 W260 TO W360	DUMP ASA PER PROPOSAL
4c	Number of dumps within lease area and outside of lease area	WITHIN LEASE AREA ONE	WITHIN LEASE AREA ONE	NO OUT SIDE DUMPING
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL	
4e	Number of active and alive dumps.	ONE	ONE	
4f	Number of dead dumps.	NOT APPLICABLE	NOT APPLICABLE	
4g	Number of dumps established.	NOT APPLICABLE	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	YES	FOUND IN ORDER
4i	Length of Retaining wall or garland drain all along dumps	NOT APPLICABLE	NOT APPLICABLE	
4j	Number of settling ponds	NOT APPLICABLE	NIL	NO SETTLING POND

4k Specific comments of inspecting officer on waste dump management

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	AREA NOT MATURED FOR BACK FILLING	NOT APPLICABLE	
5b	Area under backfilling of mined out area	NOT APPLICABLE	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NOT APPLICABLE	NIL	
5d	Total area fully reclaimed and rehabilitated	NOT APPLICABLE	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NOT APPLICABLE	NIL	AREA NOT MATURED FOR BACKFILLING HENCE NO PROPOSAL

WASTE DUMP MANAGENT IS

CARRIED OUT AS PROPOSED.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	report on PMCP	PMCP REPORT SUBMITTED BEFORE 1ST JULY	SUBMITTED	

6b	Area available for rehabilitation	NOT	APPLICABLE	NIL
	(ha) .			
бс	afforestation done (ha).	0.2	НА	0.2HA
6d	No. of saplings planted during the year	500		800
бе	Cumulative no .of plants			9560 NOS
6f	Any other method of rehabilitation	NOT	APPLICABLE	NIL
бд	Cost incurred on watch and care during the year			NOT AVAILABLE
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NOT	APPLICABLE	NIL
бі	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NOT	APPLICABLE	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NOT	APPLICABLE	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NOT	APPLICABLE	NIL

61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NOT APPLICABLE	NIL	
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	500 NOS	800 NOS	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	500	800	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	PLANTATION	PLANTATION	
бр	Compliance of environmental monitoring (core zone and buffer zone)	PERIODICAL ENVIRONMENTAL MONITERING	BEING CARRIED OUT	
6q 	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP MEASURES WERE CARRIED AS PER PROPOSAL.	PMCP MEASURES WERE CARRIED AS PER PROPOSAL.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	GRADE WISE SORTING OF ORE	GARDE WISE SORTING OF MINERAL IS CARRIED MANUALLY.	MANNUALLY GRADEWISE SORTING CARRIED

7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL	MANUAL
7c	Different grade of mineral sorted out at mines.		+10-25% Mn and +25% Mn	
7d	Any beneficiation process at mines	NOT APPLICABLE	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		GRADEWISE SORTING OF MINERAL IS CARRIED OUT MANNUALLY.	GRADEWISE SORTING OF MINERAL IS CARRIED OUT MANNUALLY.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NOT APPLICABLE	NIL	
8b	Concurrent use or storage of topsoil	NOT APPLICABLE	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	SEPARATE DUMP FOR WASTE AND MINERAL	SEPARATE DUMP FOR WASTE AND MINERAL	SEPARATE DUMP FOR WASTE AND MINERAL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NOT APPLICABLE	NIL	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	DUMP PLANTATION PROPOSED	DUMP PLANTATION CARRIED OUT.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500	800 NOS	
8g	Survival rate		62 %	
8h	Water sprinkling on roads to control airborne dust	sprinkling on	supression is carried	
81	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around the mines area is maintained.	Aesthetic beauty in and around the mines area is maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017		

9b Scrutiny of Graduate Found to be in order Annual return Mining for information Engineer 1 on Mining (partly Engineer, employed), Geologist and Diploma Mining Manager Engineer 1, Geologist 1 (partly employed) 9c Scrutiny of Covered under Found to be in order Annual return on current (O/C)land use pattern Workings: 2.800 ha, Used for area under pits, reclaimed For waste area, dumps etc. disposal: 1.200 ha, etc., 9e Scrutiny of 101 tonne 101 tonne Annual return on mineral reject generation (Grade and quantity) 9f Scrutiny of ROM closing ROM closing Annual return on stock is Nil stock is Nil ROM stock and/or graded ore Scrutiny of 9q Production Production Cost- Rs Annual return on Cost- Rs 9790/sale value, Ex. 9790/-Mine price and production cost 9h Scrutiny of Rs 1243193/-Rs 1243193/-Annual return on fixed assets 9k tipper 6 cu.m. found to be in order. Scrutiny of Annual return on 1no. mining machineries

Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Show couse position		
Rule R	NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on
MCDR17	Rule 35(2)	29/09/2021			
MCDR17	Rule 45(5)(29/09/2021			

Date :

(SANJAY KUMAR MAHAPATRA)

Indian Bureau of Mines