

MCDR INSPECTION REPORT**GENERAL**

S. N.	Particulars	Details
1	Name of the Mine	Anajori Manganese Ore Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	18.494 Ha
3	Mine code	40ORI27002
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/6404/2011
5	Name of the lessee, Address, Phone, email and fax number	Sri Kunal Kishore Das Plot No.29, Saheed Nagar, Bhubaneswar-751007 Phone: 0674-2548768, Fax No: 0674-2549477 Mob: 9437073677, E-mail: kunalkishoredas@gmail.com
6	Village	Anajori
7	Taluka/Mandal	Muniguda
8	District	Rayagada
9	Pin code	765021
10	State	Odisha
11	Post office	Ambadola
12	Nearest police station	Ambadola
13	Nearest Railway station	Ambadola
14	Date of Grant of Mining Lease	24.01.2002
15	Date of Execution	09.07.2004 (lease period is 20 years from 09.07.2004 to 08.07.2024)
16	Date of opening of Mine	03.07.2006
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not Applicable
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Bijay Kumar Das, Plot No.29, Saheed nagar, Bhubaneswar-751007, Phone: 9556091427 E-mail: bijaydas833@gmail.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Rahit Kumar Naik, Anajori Manganese Mine At: Anajori, PO / PS: Ambadola, District: Rayagada, Phone: 9439613488 ,10 years
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Rahit Kumar Naik, Anajori Manganese Mine At: Anajori, PO / PS: Ambadola, District: Rayagada, Phone: 9439613488,10 yerars

S. N.	Particulars	Details
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Manas Ranjan Mohanta Anajori Manganese Mine Anajori,Rayagada 7 years of Experience.
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan is approved as on 28.08.2001 for 5 years from 2006-07 to 2010-11. Specific Condition: NIL. Modification of Mining Plan is approved on 10.06.2010 for 1 year of 2010-11. Specific Condition: NIL.
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining is approved on 05.08.2011 for 5 years from 2011-12 to 2015-16. Specific Condition: NIL. Scheme of Mining is approved on 20.07.2016 for 5 years from 2016-17 to 2020-21. Specific Condition: NIL. Review of Mining Plan is approved on 20.04.2021 for 4 years from 2021-22 to 2024-25 (up to 08.07.2024). Specific Condition: NIL.
28	Mineral(s) granted in lease and proved for mining	Manganese Ore
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanized, Others or Manual)	Manual
31	Captive/Non Captive	Non-Captive

SCIENTIFIC MINING: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

EXPLORATION:

S.N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remarks
1a	Backlog of previous year	Not applicable	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	71 boreholes	71	
1c	Exploration Agency & Expenditure in lakh Rupees	Not Applicable	World Consultancy &	

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	during the year		2200000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	18.494 ha	Nil	
1e	Balance reserves as on 01.04.2022	55,882 t	55882 tonne	

DEVELOPMENT:

S.N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remarks
2a	Location of development w.r.t. lease area	15S-91S / 11E-12W	15S-91S / 11E-12W	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil: NIL Overburden: NIL Manganese: 1	Topsoil: NIL Overburden: NIL Manganese: 1	
2c	Stripping ratio or ore to OB ratio	1t / 0.6m ³	1t / 0.6m ³	
2d	Quantity of topsoil generation in m ³	NIL	NIL	
2e	Quantity of overburden generation in m ³	1,376m ³ (IB)	250m ³ (IB)	Less waste generated due to less production.

EXPLOITATION

S.N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	2458 t	225 t	Less production
3c	Recovery of salable/usable mineral from ROM production	2229 t	204 t	Less production
3d	Quantity of mineral reject generation	229 t	21 t	Less production
3e	Grade of mineral reject generation and threshold value declared	Grade : 10-20% Mn Threshold value: 10% Mn	Grade : 10-20% Mn Threshold value: 10% Mn	
3f	Quantity of sub-grade mineral generation	229 t	21 t	
3g	Grade of sub-grade mineral generation	Grade : 10-20% Mn	Grade : 10-20% Mn	
3h	Manual / Mechanized method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out	NIL	NIL	

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	for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	NIL	NIL	
3k	Provision of mining machineries in mineral benches	NIL	NIL	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	0.111 ha	0.1 ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.6 (t /m ³)	1: 0.6 (t /m ³)	
3o	Total area put in use under different heads at the end of year	1.306 ha	1.1 ha	
3p	Production of ROM mineral during the last six year period as applicable.			
	2016-17	2458 t	NIL	Manganese Ore could not be produced due to want of statutory clearances
	2017-18	2462 t	NIL	-do-
	2018-19	2462 t	NIL	-do-
	2019-20	2462 t	233.5 t	Production could not be achieved as per the proposal since the mine was opened on 01.11.2019 after completion of 7 months of the year.
	2020-21	2462 t	478 t	Production could not be achieved due to Covid-19 and lack of demand.
	2021-22	2458 t	225 t	-do-

SOLID WASTE MANAGEMENT-DUMPING:

S.N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Topsoil: NIL OB: Separate dumping Mineral Reject: Separate dumping	Topsoil: NIL OB: Separate dumping Mineral Reject: Separate dumping	
4b	Location of topsoil, OB & mineral reject dumps	Topsoil: NIL OB: 45S-57S/18W-34W Mineral Reject: 226S-243S / 56W-74W	Topsoil: NIL OB: 46S-56S/19W-33W Mineral Reject: 227S-242S / 57W-73W	

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4c	Number of dumps within lease area and outside lease area	1	1	
4d	Location of dumps w.r.t. ultimate pit limit	Outside	Outside	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilized	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	NIL	Only 250m ³ waste is generated against the proposal of 1,376m ³ waste.
4i	Length of Retaining wall or garland drain all along dump	Retaining wall: 102m Garland drain: 105m	NIL	-do-
4j	Number of settling ponds	1	NIL	-do-

SOLID WASTE MANAGEMENT-BACKFILLING:

S.N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NIL	NIL	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NIL	NIL	
5d	Total area fully reclaimed	NIL	NIL	

& rehabilitated			
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PROGRESSIVE MINE CLOSURE PLAN:

S. N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Not Applicable	Yes	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	NIL	Not Applicable	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NIL	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	165 saplings, 0.066 ha, Plantation	165 saplings, 0.066 ha, Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Committed	Complied	

MINERAL CONSERVATION:

S.N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2,229 t (+10% Mn)	29.2 t (+25-35% Mn)	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	2000 t (+20% Mn) 229t (+10-20% Mn)	29.2 t (+25-35% Mn)	

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7d	Any beneficiation process at mines	NIL	NIL	
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ENVIRONMENT:

S.N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	NIL	NIL	
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Waste rock: 1376m ³ Rejects: 92m ³ / 229 t	Waste rock: 250m ³ Rejects: 8.4m ³ / 21 t	Less production due to lack of demand generating less waste and less rejects.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	
8f	Baseline information on existence of plantation & additional plantation done	Existing: NIL Additional: 165 Nos.	Existing: Not Applicable Additional: 165 Nos.	
8h	Water sprinkling on roads to control airborne dust	Proposed	Actuated	

COMPLIANCE OF RULE 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto October, 2022 A.R. Submitted upto 2021-22		
S.N.	Item	Details given in A.R. for the year 2021-22	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Rahit Kumar Naik, Geologist: Manas Ranjan Mohanta, Manager: Rahit Kumar Naik	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits: 0.1 ha, Reclaimed area: NIL, Dump: 0.029 ha	Found in order	
9d	Scrutiny of Annual return on afforestation	165 saplings	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	21 t (14% Mn)	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock: NIL Graded Ore: 1009.45 t	Found in order	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mines Price: Rs.5700 / t Production Cost: Rs.2612 / t	Ex-Mines Price: Rs.5700 / t Production Cost: Rs.2612 / t	
9i	Scrutiny of Annual return on fixed assets	Rs.18,494	Rs.18,494	
9k	Scrutiny of Annual return on mining machineries	Covered under current opencast workings- 2.0 hactres Area for which surface rights are held- 18.494 ha. Date of renewal of lease- 08.07.2054.	Covered under current opencast workings- 2.0 hactres Area for which surface rights are held- 18.494 ha. Date of renewal of lease- 08.07.2054.	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Earlier Violations has been complied.