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MCDR INSPECTION REPORT(2022-23)

S. N.	Particulars	Details
1	Name of the Mine	SHIVASANDRA MANGANESE ORE MINES
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	21.38 Ha (Govt. Revenue Land)
3	Mine Code	40KAR19029
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/7264/2011
5	Name of the lessee, Address, phone, email and fax number	Smt.Sunanda .V.Allum Gadigi Palace Car Street, Ballari Ph: 9448113500 e-mail: sunandaallum@gmail.com
6	Village	Shivasandra
7	Taluk/Mandal	Gubbi
8	District	Tumkur
9	Pin Code	572211
10	State	Karnataka
11	Post office	Kondali
12	Nearest police station	Choluru
13	Nearest Railway station	Amma Sandra
14	Date of Grant of Mining Lease	Valid up to 27.05.2060, as per MMDR (Amendment) Act 2015
15	Date of Execution	28/05/2010
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NA
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri.Prasad Gadigi Palace Car Street, Ballari
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri. R.Kenchappa Gadigi Palace Car Street, Ballari Ph: 9880020784 20 years' Experience DOA: 15-10-2011 e-mail: apmines@yahoo.co.in
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Rapaka Anil BE Mining 5 years 2Y-11 M in Benita Industries Ltd 2Y 6M in Chandrashekar Reddy Quartz

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		Mines. Ph: 8328409263
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Not on Rolls on the date of Inspection. Anil N L M.ScGeology 5Years Experience Not on Rolls on the date of Inspection.
25	Date of Approval of Mining Plan/Modified Mining Plan with five- year period and specific condition in approval letter, if any.	Vide Letter no 279/954/2007/BNG/1449Dated 19/06/2015 valid from 2015-16 TO 2019-20
26	Date of Approval of Scheme of Mining/ Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Vide Letter no 279/954/2007/BNG/481 Dated 06/05/2020 valid from 2020-21 to 2024-25.
27	Mineral(s) granted in lease and proved for mining	Manganese ore
28	Method of Mining (Opencast, Underground)	Open Cast
29	Category (Fully Mechanized, Others or Manual)	Mechanized.
30	Captive/ Non captive	Non captive
31	Date of inspection	15/03/2024
32	Name of accompanying mine officials with designation	Sri. R. Kenchappa Mines Manager

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	Entire lease area explored under G1 level.
1e	Balance reserves as on 01.04.2023			99300MT as per AR2022- 2023.
1f	General remarks of inspecting officer on geology, exploration etc.	Manganese Ore in Northern part of the length of 250m and The grade of the Oren and In addition to Mn Oren Northead part of the agrade from 47% not included in the has been explored during 2015 and 1 year 2019-2020& 2	ne Lease. The Mnd width of 60m and Ore varies from 10. Ore, Iron Ore float to 53% Fe. Howe a ML deed. The eunder G1 level was core boreholes o	reef is having a d depth of 40m. 6% to 26% Mn. is also proved in of 1 to 4m with ever, Iron Ore is ntire Lease area ith 31 Trial pits

Development

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		23)	(2022-23)	
2a	Location of development w.r.t.	,	N1476820	Development
	lease area	N1476855	N 1476745to	carried out
		N 1476750to	E691350	with in the
		E691350	E691550	proposed
		E691598		grid
				intervals.
2b	Separate benches in topsoil,	Separate benches	F	2 No benches in
	overburden and mineral (Rule 15)	in Overburden	benches	OB and
		proposed	in Overburden	2 benches in
_			maintained	Ore
2c	Stripping ratio or ore to OB ratio	1:4.55	1:4.4	As per the
				AR-2022-23
		_		1: 4.4.
2d	Quantity of topsoil generation in	No proposal	NA	No
	m3			generation of
				top soil,
				working
				within broken
				up area.
2e	Quantity of overburden generation	18955 cum	22000 cum	As per the
	in m3			AR-2022-23
2f	General remarks of inspecting	The Mine is develo		
	officer on development of pit w.r.t.	with 2 benches in t		
	type of deposit etc.	the Mineral whose		
		width from 3-9m suitable for the type of the deposit.		
		However, at places bench height and width were		
		found not maintained as per the Approved MP.		
		Violation issued.		

Exploitation

S.N.	Item	Proposals (2022-23	Actual work (2022-23)	Remarks
За	Number of pits proposed for production	One	One	One pit as proposed.
3b	Quantity of ROM mineral production proposed	10000 t	9900tonnes	As per AR-2022- 2023.
3c	Recovery of salable/usable mineral from ROM production	25%- mineral 75%waste	25%-mineral 75%-waste	Nil
3d	Quantity of mineral reject generation	1000 ton 7546 tons	1000 tons 9900 tons	Mn mineral rejects Iron Ore Float Both materials stockedseparately
3e	Grade of mineral reject generation and threshold value declared	10% MN 50 Fe%	10% MN 50Fe%	Iron Ore is not included in the ML deed and therefore produced and

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				separately stacked as
				Mineral Reject.
3f	Quantity of sub- grade mineral generation	No proposal	No proposal	willeral Reject.
3g	Grade of subgrade mineral generation	No proposal	No proposal	
3h	Manual / Mechanized method adopted for segregating from ROM	Manual	Manual	Manual with deployment of labors for hand sorting & Picking.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No proposal	
3j	Provision of drilling & blasting in mineral benches	No proposal	No proposal	
3k	Provision of mining machineries in mineral benches	Proposed Excavator-1 Trucks-4 Wheel loader-1 Water tanker -1 MSP-1	Provided as per MP Excavator-1 Trucks-4 Wheel loader-1 Water tanker -1 MSP-1	Only One wheel loader and one excavator were parked idle in the Mine site as the mine not working on the day of inspection.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3-5 Mts Height 3-9 Mts Width	3-5Mts Height 3-9Mts Width	During inspection it is observed that bench height and width at places between section line between D-D' & G-G' the height of the benches are exceeding the proposed height and width of the benches are less than the bench height thereby deviating from the approved proposals. Violation issued.
3m	Total area covered under excavation/pits	3.73Ha	3.73 На	As per AR-2022- 2023.
3n	Ore to OB ratio for the pit/mine	1:5.41	1:4.4	As per the AR-2022- 2023.

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	during the year			
30	Total area put in use under different heads at the end of year	Mining –3.14 Dumps — 1.034 Mineral storage :1.17Infrastructure- Office, workshop etc :0.09 Roads :0.31 Green Belt- 2.26 Afforestation -5.09 Ha R@R Engineering works : 0.07 Others:8.216 Total - 21.38	Mining –3.14 Dumps — 1.034 Mineral storage :0.33 Infrastructure- Office,workshop etc :0.09 Roads :0.31 Green Belt- 2.26 Afforestation -5.09 Ha R@R Engineering works : 0.07 Others:8.216 Total - 21.38	
3p 3q	Production of ROM mineral during last five-year period, as applicable General remarks of inspecting officer on method of mining etc.	2018-19 : 10000 2019-20 : 10000 2020-21 :10000 2021-22 : 10000 2022-23 : 10000 (in tonnes) The Mine is operated excavator and tipper of blasting. Mineral sorting	2018-19:1100 2019-20:0 2020-21:1750 2021-22:7700 2021-22:9900 (in tonnes) d by open cast method combination without prong is done both by mechanical method for separating was	posals of drilling and anized method for size
		screening and manual method for separating waste and is suitable for the type of Ore and its grade and scale of operations.		

Solid Waste Management-Dumping

S.N.	Item	Proposals (2022-	Actual work	Remarks
		23	(2022-23	
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping for OB and Mineral rejects	Separate dumping for OB and Mineral rejects	
4b	Location of topsoil, OB & mineral reject dumps	Proposed. For OB N1476857 TO N 1476716 E 691594TO E 691730 For reject (MN) N 1476810 N 1476777 to E 691083 E 691112 For reject (FE) N1476772 N 1476729 to E 691151 E 691205	done. For OB N1476800 TO N 1476700 E 691600TO E 691700 For reject (MN) N 1476800 N 1476750 to E 691060 E 691100 For reject (FE) N1476772 N 1476729 to E 691160 E 691200	Iron Ore is not included in the ML deed and therefore produced and separately stacked as Mineral Reject. Mineral reject is stocked separately.

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4c	Number of dumps within	Dump within	Dump within	
	lease area and outside lease	lease area	lease area	
	area	1Nos	1Nos	
4d	Location of dumps w.r.t.	Out side UPL	Dumps are out	
	ultimate pit limit (Rule 16)		side UPL	
4e	Number of active & alive	1 no s	1 no s	
	dumps			
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilized	No proposal	No proposal	Inactive part
				of the active
				dump is
				Stabilized by
				Plantation.
4h	Whether Retaining wall or	07 21	NT:1	Violation
	garland drain all along	97 m x 2m x1m	Nil	issued for not
	dumps are there			carrying out the
4i	Length of Retaining wall or	95 m x 3m x2.5m	Nil	proposed
	garland drain all along dump	95 III X 5III X2.5III	INII	construction of
				RW and GD.
4j	Number of settling ponds	No proposal	No proposal	
4k	Specific comments of	One dump is mainta	ined with terracing ar	nd is stabilized with
	inspecting officer on waste	few engineering	structures. Howeve	er, the proposed
	dump management.	construction of RW and GD for the year 2022-2023 not		
		carried out and viola	ation issued.	

Solid Waste Management-Backfilling

S.N.	Item	Proposals(2022	Actual work	Remarks
		-23)	(2022-23)	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	NA	
5b	Area under backfilling of mined	No	NA	Mineral persists at
	out area	proposal		depth and hence no proposal
5c	Concurrent use of topsoil for	No	NA	
	restoration or rehabilitation of	proposal		
	mined out area (Rule 32)			
5d	Total area fully reclaimed &	No	NA	
	rehabilitated	proposal		
5e	General remarks of inspecting	Mineral persists a	t depth and backfil	lling and reclamation
	officer on backfilling, reclamation etc	does not arise.		

Progressive Mine Closure Plan

S.N.	Item	Proposals (2022-	Actual work (2022-23	Remarks
		23		
6a	Whether Annual		21.08.2023	
	report on PMCP			
	submitted on time and			
	correctly - Rule 23E			

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	(2). Details should be			
	given in the format as			
	given in Annexure-20.			
6b	Area available for rehabilitation (ha)	NA	-	
6c	Afforestation done (ha)	0.41	0.41	-
6d	No. of saplings planted during the year	1025	650	50% survival rate Violation issued for deviating from the proposals.
6e	Cumulative no. of plants	NA	13625	-
6f	Any other specific method of rehabilitation	NA	Plantation	
6g	Cost incurred on watch & care during the year		1.25 lakhs	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	No proposal	No proposal	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No proposal	No proposal	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No proposal	No proposal	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	No proposal	NA
61	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposal	No proposal	NA
6m	Compliance of Rehabilitation of	No proposal	No proposal	NA

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	waste land within lease (i) Afforestation			
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No proposal	No proposal	NA
60	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	No proposal	NA
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring(core zone &buffer zone) Proposed	Environmental monitoring(corezone&bu ffer zone) Done	Air monitoring stations Core zone- 3 Buffer -3 Water monitoring Core zone- 1 Buffer -1 Noise monitoring Core zone- 5 Buffer -3 All the environmental parameters were observed within permissible limits
6q	General remarks of inspecting officer on PMCP compliance &progressive closure operations		CP activities are not carried struction of Retaining Wall	out as proposed like

Mineral Conservation

S.N.	Item	Proposals (2022-	Actual work	Remarks
		23	(2022-23	
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the lease area.	Grade wise sorting done within the lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Proposed Manual	Manual with deployment of labors for hand sorting & picking.	
7c	Different grade of mineral sorted out at mines	No proposal	No proposal	
7d	Any beneficiation process at mines	No proposal	NA	NA

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7e		The Ore is manually sorted thereby separating it		
	inspecting officer on	from the waste for improving the recovery & its		
	Mineral conservation &	grade thereby taking care of the mineral		
	beneficiation issues	conservation aspects.		

Environment

S.N	Item	Proposals	Actual	Remarks
		(2022-23)	work(2022-23)	
8a	Separate removal and	No Proposal	No generation	Work is
	utilization of topsoil		of top soil	carried out in
	(Rule 32)			broken up area.
8b	Concurrent use or	No proposal	No proposal	
	storage of topsoil			
8c	Separate dumps for	Proposed	Yes, done as	
	overburden, waste		per	
	rock, rejects and fines		approved Mine	
	(Rule 33)		plan	
8d	Use of overburden,	No proposal	No proposal	
	waste rock, rejects and			
	fines dumps for			
	restoring the land to its			
	original use			
8e	Phased restoration,	No proposal	No proposal	
	reclamation and			
	rehabilitation of lands			
	affected by mining			
	operations (Pits,			
	dumps etc)			
8f	Baseline information	0.41Ha	0.41 Ha	As per AR-2022-
	on existence of	1025Nos	650nos	23. Violation
	plantation & additional			issued for deviation.
	plantation done (Rule			deviation.
	41)			
8g	Survival rate	50%	50%	_
8h	Water sprinkling on	Proposed	Done as per	One water
	roads to control		proposal.	Tanker of 5000
	airborne dust			L capacity used for dust
				suppression.
8i	General remarks of		I	suppression.
	inspecting officer on	on Aesthetic beauty in and around the Mine is satis		
	aesthetic beauty in and			
	around mines area.			
				

Compliance of Rule 45

S.N	Item	COMMENTS Remark		narks		
•						
9a	Status of	M.R. Submitted up to:Feb 2024				
		A.R. Submitted up to: 2022-23 on				

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	submission of	30.06.2023		
	Monthly and			
	Annual returns			_
S.N	Item	Details GIVEN in	Observation of	Remarks
•		A.R.	I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- R Kenchappa, Mining Engineer - Vinodh Kumar	No Mining Engineer & Geologist present on the day of inspection.	Violation/ Show Cause Notice issued.
0.0		Geologist -Anil N L	Mining 2.140	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining – 3.140 Dumps — 1.034 Occupied by plant, buildings, residential, welfare buildings and roads – 1.570	Mining – 3.140 Dumps — 1.034 Occupied by plant, buildings, residential, welfare buildings and roads – 1.570 Used for any other	
		Used for any other purpose (specify) green belt, afforestation, R&R works – 7.40	purpose (specify) green belt, afforestation, R&R works – 7.40	
		Work done under progressive mine closure plan during the year -0.10	Work done under progressive mine closure plan during the year -0.10 Others: 8.349	
		Others: 8.349 Total - 21.38	Total - 21.38	
9d	Scrutiny of Annual return on afforestation	650 no saplings within ML area with survival rate -70%	It was proposed for plantation of 1025 saplings as per the approved RUMP and lagging from the approved proposals.	issued.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mn rejects - 0 Fe- rejects -9900 tons grade 40Fe%	As per the Review ar Mining Plan docum vide letter no. 279 /5 dated 06 / 05 / 2020 , It was produce 9000 Metric Ore and 1000 Metric Ore Rejects. However, 9900 Metric Tonnes Ore and 9900 Metric Manganese Ore rejects <i>V</i> (<i>General Geology Subgrade-Mineral tonnes</i>) (<i>MANGAN totaling to 196</i>)	pent approved as proposed to Tonnes of Mn Tonnes of Mn Production of of Manganese ic Tonnes of under PART-& Mining) 3. Reject (in

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				tonnesreported which is a deviation from the Maximum approved quantity in the Mining Plan and Environmental Clearance dated 20/09/2008. Show Cause Notice issued
9f	Scrutiny of Annual return on ROM stock and/or graded	ROM MN- tons	9900	
9g	ore Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: 1877 Ex mine price : 1851 Production cost : 1713		Appears to be correct.
9i	Scrutiny of Annual return on fixed assets	Rs. 916345		
9k	Scrutiny of Annual return on mining machineries	BACK HOE WHEEL LOADER TIPPER WATER TANKER Others	1 1 4 1	On the day of inspection, the mine remained temporally discontinued and only Back Hoe, and wheel loader were found parkedidle.

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

Violation observed

RuRule NO. Issued on Compliance on Rule NO. Issued on Compliance on 11(1),28,55(3)(ii) 19/4/24

45(7) 19/4/24

(DR.SURESH PRASAD) REGIONAL CONTROLLER OF MINES.