MCDR INSPECTION REPORT

Date of Inspection: 16.05.2024

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General	

Gener	al	
S.	Particulars	Details
N.		
1	Name of the Mine	Bhanjapali Iron Ore Mines
2	Total Lease Area (Ha) with breakup of Non-forest	Total lease -18 hect.
	and forest land	Non forest -5.435 hect.
		Forest -12.565 hect.
3	Minecode	300RI13043
4	IBM Registration Number under rule 45 of	IBM/8414/2011
	MCDR, 1988	
5	Name of the lessee, Address, phone, email and fax	Bhanjpali Iron Ore Mines of Shri
	number	J.N. Patanaik
		At/Po:- Baneikala
		Dist:- Keonjhar
		5
6	Village	State:- Odisha (758038)
6	Village	Bhnajapali
7	Taluka/Mandal	Construction
8	District	Sundargarh
9	Pincode	770048
10	State	Odisha
11	Post office	Koira
12	Nearest police station	Koira
13	Nearest Railway station	Barsuan
14	Date of Grant of Mining Lease	01.04.1997
15	Date of Execution	01.04.1997
16	Date of opening of Mine	01.04.1997
17	Date of first Renewal, if applicable and its period	N.A
	& expiry	
18	Date of second Renewal, if applicable and its	N.A
	period & expiry	
19	Date of submission of renewal application if	N.A
	Mining Operations are continuing under deemed	
	extension	
20	Name of the Nominated Owner with Address,	Jitendranath Patnaik,
	phone, email, fax number and date of appointment	At-Boneikela,
		Po-Joda,
		Dist-Keunjhar,
		5
		Phone No-06767-270106
21	Name of the Mine Agent with Address, phone,	Shri Soumya Patnaik
	email, fax number and date of appointment	At/Po:- Baneikala
		Dist:- Keonjhar
		State:- Odisha (758038)
22	Name of the Mines Manager with Address, phone,	Sri Sudhakar Sahoo
	email, fax number and date of appointment in	At-Kalindrabad,Po-Adanga
	mines	purussottampur, Jajpur,

l/35758/202 4		Mob-9348969829
23	Name of the Mining Engineer, Qualification and	Shri Sudhakar Sahoo
20	total experience with Address, phone, email, fax	Bhanjpali Iron Ore Mine of Shri J.N.
	number and date of appointment in mine	Patanaik
		At/Po-Koira, Dist:- Sundargarh
		State:- Odisha (770048) Email:-
		sudhakarsahoo1947@gamil.com
		Date of Appointment:- 20.02.21
		Qualification:- B.Tech (Mining)
		Experience-12 Yrs
		Mob-9437462008
24	Name of the Geologist, Qualification and total	Shri Amiya Kumar Baral
	experience with Address, phone, email, fax	
	number and date of appointment in mine	
25	Whether Geologist and Mining Engineer appointed	Mining Engineer:
	in mines satisfy the rule 55& carrying out their	Shri Sudhakar Sahoo
	duties as per rule 56 & 57.	Geologist:
26	Date of Approval of Mining Plan/Modified Mining	Shri Amiya Kumar Baral 2022-23 to 2026-27 (22.11.2021)
20	Plan with five-year period and specific condition in	2022-23 to 2020-27 (22.11.2021)
	approval letter, if any.	
27	Date of Approval of Scheme of Mining/Modified	Review of the Mining Plan vide
27	Scheme of Mining with five-year period and	letter No.
	specific condition in approval letter, if any.	RMP/A/23-OR11/BHU/2021-22,
	specific condition in approval fetter, if any.	dated: 22.11.2021, Five year plan
		period is (2022-23 to 2026-27)
28	Mineral(s) granted in lease and proved for mining	Iron
		11011
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	A (OTFM)
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	Actual work	Remark
		for,2023-24	during 2023-	
			24	
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for	Nil	Nil	
	Geological axis 1 or 2.			
1c	Exploration Agency &	Nil	Nil	
	Expenditure in lakh Rupees			
	during the year			
1d	Balance area to be explored to			Entire area has
	bring Geological axis in 1 or 2	Nil	Nil	already been
				explored under

I/35758/202

2	4				G1	level	of
					explo	ration	
	1e	Balance reserves as per latest		4355962.00	As or	n 31.03.2	024
		approved document		MT.			
	1f	General remarks of inspecting	The entire area has already been ex			ed under	G1
		officer on geology, exploration	level of exploration. Hence, there was no proposal for				l for
		etc.	exploration during the reporting year.				

Development

S.N.	Item	Proposals for, 2023-24	Actual work during 2023- 24	Remark	
2a	Location of development w.r.t. lease area	3 nos of Quarries; i.e. Q- 1, Q-2 & Q-3: N-2424000- 2424690 /E- 319080 to 319350	3 nos of Quarries; i.e. Q-1, Q-2 & Q-3: N- 2424030- 2424600 /E- 319100 to 319330	The lessee has carried out development within the proposed area but could not able to achieved the targeted the targeted production and development proposal. Because the lessee could not obtained the environmental clearance for the proposed production target.	
2b	Separate benches in topsoil,	Topsoil-Nil	Topsoil-Nil	production differ	
	overburden and mineral (Rule 15)	Overburden-4	Overburden-4		
2c	Stripping ratio or ore to OB ratio	Mineral-3 1:0.251	Mineral-3 1:0.230		
20 2d	Quantity of topsoil generation in m3	Nil	Nil		
2e	Quantity of overburden generation in m3	1,26,189	60,583		
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	The lessee has carried out development within the proposed area but could not able to achieved the targeted production and development proposal. Because the lessee could not obtained the environmental clearance for the proposed production target. However, the lessee has submitted a revised proposal of the review of mining plan and the same is under process.			

Exploitation

S.N.	Item	Proposals for, 2023-	Actual work	Remark
		24	during 2023-	
			24	

1/35758/202 <mark>4</mark> 3a	Number of pits proposed for	3	3
	production		
3b	Quantity of ROM mineral	5,02,091 tons	2,59,970 tons
	production proposed		2 50 050
3c	Recovery of salable/usable mineral from ROM production	4,13,487 tons	2,59,970 tons
3d	Quantity of mineral reject	88604 tons	Nil
50	generation	00004 10115	
Зе	Grade of mineral reject	45 % to 55 % Fe	45 % to 55%
	generation and threshold value		Fe
	declared		
3f	Quantity of sub-grade mineral	Nil	Nil
	generation		
- 3g	Grade of sub-grade mineral	Nil	Nil
-0	generation		
3h	Manual / Mechanised method	Mechanized	Mechanized
	adopted for segregating from		
	ROM		
3i	Any analysis or beneficiation	Nil	Nil
	study proposed & carried out		
	for sub-grade mineral and		
	reject		
3j	Provision of drilling & blasting	Yes, proposed	Yes, Carried
	in mineral benches		out
3k	Provision of mining	Excavator and	Excavator and
	machineries in mineral benches	Dumper	Dumper
		combination.	combination.
31	Whether height of benches in	Yes, it is proposed	Height and
	overburden and mineral	to keep the bench height up to 6 mtr	width of benches were
	suitable for method of mining	for both Ore & OB	in order as per
	proposed in MP/SOM	benches.	the proposal of
			the approved
			document.
3m	Total area covered	7.635 Ha.	7.630 Ha.
	under excavation/pits	/.000 11a.	/.030 IIu.
3n	Ore to OB ratio for the	1:0.138	1:0.138
	pit/mine during the year	1.0.100	1.0.100
30	Total area put in use under		
	different heads at the end of	15.743 Ha	12.03 Ha
	year		
Зр	Production of ROM mineral	2018-19= 66640	2018-19=
	during last Five-year period, as	tons	65100
	applicable	2019-20= 259935	tons
	2017-18	tons	2019-20=
	2018-19	2020-21= 4,64,171	251100 tons
	2019-20	tons	2020-21=
	2020-21	2021-22= 4,99,997	229740 tons
	2021-22	tons	2021-22=

l/35758/202	4	2022-23	2022-23= 3,62,932 tons	2,60,000 tons 2022-23= 2,59,970 tons	
	3q	General remarks of inspecting officer on method of	Lessee has carried o well within the propo the lessee could not h production during environment clearanc a revised proposal of same is under process	sal in the mining ave achieved the the reporting y e. However, the l the review of n	lease area, whereas proposed target for ear due want of essee has submitted

Solid Waste Management-Dumping

S.N.	Item	Proposals for, 2023-24	Actual work	Remark
			during 2023-24	
4a	Separate dumping of	Top soil: - Nil	Top soil: - Nil	
	topsoil, OB &	OB: - Over existing OB	OB: - Over	
	mineral reject (Rule	dump	existing OB	
	33, 37)	Mineral Reject:- Separate	dump &	
		stack for Mineral reject is	Backfilled	
		Proposed	over Quarry-3	
			Mineral	
			Reject: -	
			Separate stack	
			for Mineral	
			reject are	
			being carried	
			out as	
			Proposed	
			1	
4b	Location of topsoil,	Top Soil: - No Proposal	Top Soil: - Nil	The lessee has
	OB & mineral reject	OB: - N-2424620-	OB: N-	not carried out
	dumps	2424680 /E-319220 to	2424470-	the waste
		3193360	2424650 /E-	dumping as per
		Mineral Reject: -	319260 to	the proposal. The
		N-2424031 to 2424385	319360	lessee has carried
		E-319308 to 319372	Mineral	out backfilling in
			Reject: -	Q-3 area which
			N- 2424181 to	was not in the
			2424276	proposal in the
			E- 319309 to	approved
			319384	document.
4c	Number of dumps		Within Lease	
	within lease area and	Within Lease Area: - 1 No.	Area: - 1 No.	
	outside lease area	Outside Lease Area:- Nil	Outside Lease	
			Area:- Nil	
4d	Location of dumps	Outside Ultimate Pit Limit	Outside	
	w.r.t. ultimate pit		Ultimate Pit	

l/35758/202 <mark>4</mark>		limit		Limit
4	4e	Number of active & alive dumps	1 Nos of active dump	1 Nos of active dump
4	4f	Number of dead dumps	Nil	Nil
4	4g	Number of dumps stabilished	Nil	Nil
4	4h	Whether Retaining wall or garland drain all along dumps are there	About 200m of retaining wall and 200m of garland was proposed.	Around200mofbothretainingwallandgarlanddrainwerecarriedoutduringthereporting year.
4	4i	Length of Retaining wall or garland drain all along dump	About 200m of retaining wall and 200m of garland was proposed.	Around200mofbothretainingwallandgarlanddrainwerecarriedoutduringthereporting year.
4	4j	Number of settling ponds	2 Nos	2 Nos
4	4k	Specific comments of inspecting officer on waste dump management	I THE JESSEE HAS HOL CATTED OUT THE SOLID WASLE INANAGEMENT AS DEL	

Solid Waste Management-Backfilling

S.N.	Item	Proposals for, 2023-24	Actual work	Remark
			during 2023-24	
5a	Status on part or full		About 0.90 ha area	
	extraction of mineral		was backfilling	
	from mined out area	Nil	during the	
	before starting		reporting year	
	backfilling		over Quarry-3	
5b	Area under		About 0.90 ha area	
	backfilling of mined		was backfilling	
	out area	Nil	during the	
		1111	reporting year	
			over Quarry-3	
5c	Concurrent use of	Nil	Nil	
	topsoil for restoration			

l/35758/202	4	or rehabilitation of mined out area (Rule 36)			
	5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
	5e	General remarks of inspecting officer on backfilling, reclamation etc	The lessee has carried out back filling over 0.90 ha area in quarr 3, which was not in the proposal. To rectify the same the less submitted a revised proposal and the same is under process.		

Progressive Mine Closure Plan

N.	Item	Proposals for, 2023-24	Actual work	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	during 2023-24As the reportingyear is yet to becompleted andschedule datefor submissionfor annualreturn isawaited till thedate ofinspection i.e.16.05.2024.	
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	i. Nil ii. Nil iii. Nil iv. Nil v. Nil vi. Nil	i. Nil ii. Nil iii. Nil iv. Nil v. Nil vi. Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for	i. Nil ii. Nil iii. Nil	i. 0.90 ha in Q- 3 carried out ii.waste material	The lessee has carried out back

I/35758/202		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	iv. Nil v. Nil	iii. Nil iv. Nil v. Nil	filling over 0.90 ha area in quarry-3, which was not in the proposal.
	6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 2810 nos of saplings ii) 2023-24= 0.281 Ha. with 80% survival rate iii) Plantation	 i) 2805 nos of saplings ii) 2023-24= 0.281 Ha. with 65% survival rate iii) Plantation 	
	6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, water and Noise monitoring is proposed both in core and buffer zone.	Air, water and Noise monitoring has been carried out both in core and buffer zone	
	6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried of monitoring as per the propos has carried out back filling was not in the proposal. To revised proposal and the sam	al during the repor over 0.90 ha area rectify the same th	ting year. The lessee in quarry-3, which

Mineral Conservation

				1
	Item	Proposals for, 2023-24	Actual work during	Remark
S.N.			2023-24	
7a	ROM Mineral	Separate stack yard is	Separate stack	
	dispatch or grade-	proposed for Saleable ore	yard for Saleable	
	wise sorting within	and Mineral Reject.	ore and Mineral	
	lease area	Saleable Ore: +55 % Fe,	Reject is	
		Mineral Reject: - +45	maintained.	
		to 55% Fe were	Saleable Ore:+55	
		proposed.	% Fe, Mineral	
			Reject:- +45 to	
			55% Fe are being	
			carried out.	
7b	Method of grade-	Mechanical	Mechanical	
	wise mineral			
	sorting i.e. manual			

	-	i	1	1		
1/35758/202	4	or mechanical				
	7c	Different grade of	Saleable Ore: -	Saleable Ore:+55		
		mineral sorted out	+55% Fe	% Fe, Mineral		
		at mines	Mineral Reject: -	Reject:- +45 to		
			45 to 55 % Fe	55% Fe.		
	7d	Any beneficiation	Not proposed. Only dry	Not carried out.		
		process at mines	beneficiation by means	Only dry		
			of Screening and	beneficiation by		
			Crushing units.	means of		
				Screening and		
				Crushing is carried		
				out.		
	7e	General remarks	Saleable Ore: +55 % Fe, M	Mineral Reject: - +45 to 55% Fe stocks		
0		of inspecting	are being practiced. Further	r no beneficiation process was proposed.		
		officer on Mineral	Only dry beneficiation by means of Screening and Crushing is			

of inspecting	are being practiced. Further no beneficiation process was proposed.
officer on Mineral	Only dry beneficiation by means of Screening and Crushing is
conservation &	carried out during the reporting year.
beneficiation	

Environment

issues

	Item	Proposals for, 2023-24	Actual work during	Remark
S.N.			2023-24	
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)	Separate dumps for Overburden, waste rock, Rejects and fines is proposed	Generated Overburden, waste rock, Rejects and fines dumped separately at earmarked location as per proposal	
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	The lessee has carried out back filling over 0.90 ha area in quarry-3, which was not in the proposal.	
8f	Baseline information on existence of plantation &	2810 nos of saplings will be planted over 0.281 Ha area with a survival rate of 80% within the lease area.	2805 nos of saplings have been planted over 0.281 Ha area with a survival rate of 65% within the lease area during the	

l/35758/202 <mark>4</mark>		additional				
		Plantation done		reporting year.		
	8g	Water sprinkling	Water Sprinkling is	As per the proposal		
		on roads to control	proposed on haul road to	Water sprinkling is		
		airborne dust	control airborne dust	carried out on haul road		
				to control airborne dust.		
	8h	General remarks	The lessee could not achieve the proposed production target during			
		of inspecting	the reporting year and the lessee has carried out back filling over			
		officer on aesthetic	0.90 ha area in quarry-3, which was not in the proposal. However,			
		beauty in and	the lessee has planted 2805 no of saplings over 0.281 Ha area with			
		around mines area	a survival rate of 65% within the lease area and water sprinkling by			
water tanker over hau		water tanker over haul roads to control the airborne dust and to				
			minimize the fugitive dust	emission. This sustains the aesthetic		
			beauty of the mine area.			

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Apr 2024 A.R. Submitted upto Not submitted for the current reporting year.		
S.N.	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NA	NA	As the reporting year is yet to be completed and schedule date for submission for annual return is awaited till the date of inspection i.e. 16.05.2024.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NA	NA	As the reporting year is yet to be completed and schedule date for submission for annual return is awaited till the date of inspection i.e. 16.05.2024.
9d	Scrutiny of Annual return on afforestation	NA	NA	As the reporting year is yet to be completed and schedule date for submission for annual return is awaited till the date of inspection i.e. 16.05.2024.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	NA	As the reporting year is yet to be completed and schedule date for submission for annual

l/35758/202 <mark>4</mark>				return is awaited till
				the date of inspection
				i.e. 16.05.2024.
91	f Scrutiny of Annual	NA	NA	As the reporting year is
	return on ROM stock			
				yet to be completed and schedule date for
	and/or graded ore			
				submission for annual
				return is awaited till
				the date of inspection
		NT A		i.e. 16.05.2024.
98	• ·	NA	NA	As the reporting year is
	return on sale value, Ex.			yet to be completed
	Mine price & production			and schedule date for
	cost			submission for annual
				return is awaited till
				the date of inspection
				i.e. 16.05.2024.
9i	5	NA	NA	As the reporting year is
	return on fixed assets			yet to be completed
				and schedule date for
				submission for annual
				return is awaited till
				the date of inspection
				i.e. 16.05.2024.
91	k Scrutiny of Annual	NA	NA	As the reporting year is
	return on mining			yet to be completed
	machineries			and schedule date for
				submission for annual
				return is awaited till
				the date of inspection
				i.e. 16.05.2024.