

MCDR INSPECTION REPORT

1) Name of Inspecting officer:	Sri Jitendriya Pradhan
2) Designation	Asst. Mining Engineer
3) Accompanying mine official with designation	Sri Manas kumar sahu, Mines Manager
4) Date of Inspection	13.02.2025

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Nayagarh Iron Ore Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	24.570 Hects DLC forest-22.773, Sabik forest- 1.797
3	Mine code	30 ORI 08115
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/46104
5	Name of the lessee, Address, phone, email and fax number	KCP Iron Pvt Ltd Flat 201, Archid Manoranjan, Plot 1267,Road 8, Unit 9 Odisha, Khurda, Bhubaneswar Pin- 751022 sp@kcp.in 9439066666
6	Village	Nayagarh
7	Taluka/Mandal	
8	District	KEONJHAR
9	Pin code	758086
10	State	Odisha
11	Post office	Dabuna
12	Nearest police station	Bamebari
13	Nearest Railway station	Nayagarh
14	Date of Grant of Mining Lease	09.01.2017
15	Date of Execution	11.01.2017
16	Date of opening of Mine	17.09.2018
17	Date of first Renewal, if applicable and its	
18	Date of second Renewal, if applicable and its period & expiry	
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sidharth Pradhan Plot 1262,Road 8, Unit 9 Odisha, Khurda, Bhubaneswar Pin- 751022, DOA-01.03.2024
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Sidharth Pradhan Plot 1262,Road 8, Unit 9 Odisha, Khurda, Bhubaneswar Pin- 751022 sp@kcp.in 9439066666. DOA-01.03.2024
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Manas kumar Sahu, B Tech. in Mining Engineering with 1 st class Mines Manager cert. At- Hudisahi, P.O.- Joda, Dist- Keonjhar, Odisha, Pin- 758034, Mob- 8327779090, Mail id- mk.sahu@kcp.in , Date of appointment-01.04.2024.

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Manas kumar Sahu, B Tech. in Mining Engineering, 12 years of experience, At- Hudisahi, P.O.- Joda, Dist- Keonjhar, Odisha, Pin- 758034, Mob- 8327779090, Mail id- mk.sahu@kcp.in , Date of appointment-01.04.2024.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Mining engineer of experience- 17 years Geologist of experience- 9 year Name of geologist- Karak Suchita Mohanty, M Sc Geology.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	RMP/A/26-ORI/BHU/2021-22/1265 Dt. 22.11.2021. 2022-23 to 2026-27
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	
27	Mineral(s) granted in lease and proved for mining	Iron Ore
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanized, Others or Manual)	A -OTFM
30	Captive/Non Captive	Non Captive

Details about Mining Plan/ Mining Scheme

a) Letter No. and date of approval of mining plan	:	RMP/A/26-ORI/BHU/2021-22/1265 Dt. 22.11.2021. 2022-23 to 2026-27
b) Letter No. and date of approval of mining scheme.	:	2022-23 to 2026-27
c) Condition while approving the MP/ MS/ modification	:	
d) Period of mining plan/ mining scheme in force :	:	

PART III-MCDR Report details.

- 1. 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	Remarks
1a	Backlog of previous year (2020-21)	NIL	NA	

1b	Exploration over lease area for Geological axis 1 or 2.	2020-21 = 6nos. boreholes.(120mtr) 2021-22 = 6nos. boreholes. (120mtr) 2022-23-NIL 2023-24-NIL 2024-25-NIL	2020-21 = 04 nos. of borehole (24mtr) 2021-22 = Total area explored. 2022-23-NIL 2023-24-NIL 2024-25-NIL	Exploration done for entire lease area 24.570Ha.
1c	Exploration Agency & Expenditure in lakh Rupees during the year		SPS Geo Mining Solutions Pvt. Ltd. Rs. 35,77,518.00	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	Exploration done for entire lease area 24.570Ha.	
1e	Balance reserves as on 31.03.2024		42,85,562 - +55%	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration done for entire lease area 24.570Ha.		

2. Development (2023-24):

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N2418253.05 to N2418527.05 E336568.555 to E336786.555	N2418253.05 to N2418517.05 E336568.555 to E336784.555	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Insitu quarry-1 Ore- 5	Insitu quarry-1 Ore- 5	
2c	Stripping ratio of ore to OB ratio	Insitu quarry-1:0.04(MT/M ³)	Insitu quarry-1:0.004(MT/M ³)	
2d	Quantity of topsoil generation in m ³	0 M ³	0 M ³	
2e	Quantity of overburden generation in m ³	Insitu quarry-11180M ³	Insitu quarry-1426 M ³	

2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Less generation of overburden.		
----	---	--------------------------------	--	--

3. Exploitation (2023-24))

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	299,065MT	243,400MT	
3c	Recovery of salable/usable mineral from ROM production	100% from insitu quarry	100% from in situ quarry.	
3d	Quantity of mineral reject generation	13975MT	1475MT	
3e	Grade of mineral reject generation and threshold value declared	+45-55% Fe Threshold value-45%Fe	+45-55% Fe Threshold value-45%Fe	
3f	Quantity of sub-grade mineral generation	Mentioned in mineral reject column	Mentioned in mineral reject column	
3g	Grade of sub-grade mineral generation	Mentioned in mineral reject column	Mentioned in mineral reject column	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Analysis Done	+45-55% Fe	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling with controlled blasting.	Working as per proposal.	
3k	Provision of mining machineries in mineral benches	Excavator of 0.9m ³ capacity.	Engaged as per proposal.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height-6.5mtr proposed	Bench height-6.5mtr	
3m	Total area covered under excavation/pits	5.41Ha	2.980Ha.	

3n	Ore to OB ratio for the pit/mine during the year	1:0.04(MT/M ³)	1:0.004(MT/M ³)	
3o	Total area put in use under different heads at the end of year	Working-5.41ha Waste disposal-0.11ha Occupied by plant, building,residential, roads etc-4.486ha	Working- 2.980ha Waste disposal- 0.11ha Occupied by plant, building,residential etc-4.486ha	
3p	Production of ROM mineral during the last five year period as applicable.	2019-20-79998.00 2020-21-300094.00 2021-22-300135.00 2022-23-299065.00 2023-24-299065.00	2019-20-79280.00 2020-21-79380.00 2021-22-79800.00 2022-23-137950.00 2023-24-243400.00	
3q	General remarks of inspecting officer on method of mining etc.	Carried out as proposed.		

4. Solid Waste Management-Dumping (2023-24):

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Proposed separate dumping.	Done as per proposal.	
4b	Location of topsoil, OB & mineral reject dumps	OB- 2418141.05N to 2418167.05N and 336644.555E to 336678.55E Subgrade- 2418513.05N to 2418537.05N and 337018.555E to 337034.555E	OB- 2418141.05N to 2418167.05N and 336644.555E to 336678.55E Subgrade- 2418520.05N to 2418537.05N and 337018.555E to 337015.555E	
4c	Number of dumps within lease area and outside lease area	within lease area - 01 outside lease area-NIL	within lease area - 01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are out side the ultimate pit limit.	Dumps are out side the ultimate pit limit	

4e	Number of active & alive dumps	OB- 01	OB- 01	
4f	Number of dead dumps	NIL		
4g	Number of dumps stabilized	NA		
4h	Whether Retaining wall or garland drain all along dumps are there	YES	YES, Constructed.	
4i	Length of Retaining wall or garland drain all along dump	Maintenance	Maintained	
4j	Number of settling ponds	01	02	
4k	Specific comments of inspecting officer on waste dump management	Carried out as proposed		

5. Solid Waste Management-Backfilling (2023-24):

S.N.	Item	Proposals	Actual work	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 32)	NIL	NIL	-
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Not applicable as no proposals.	NIL	-

6. Progressive Mine Closure Plan (2023-24):

S.N.	Item	Proposals	Actual work	Remarks
------	------	-----------	-------------	---------

6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	Retaining wall -Maintenance Garland drain- Maintenance settling ponds- Maintenance -	Retaining wall -121mx1mx1m Garland drain- 90mx1mx1m Settling ponds- 10mx5mx3m, 8mx4mx3m	
6b	Area available for rehabilitation (ha)	Plantation- 0.032Ha	Plantation- 1.1Ha	
6c	Afforestation done (ha)current year	Plantation- 0.032Ha	Plantation- 1.1Ha	
6d	No. of saplings planted during the year	80	5000	
6e	Cumulative no. of plants	2020-21= 435nos. 2021-22= 435nos. 2022-23=50nos. 2023-24=80nos.	9820	
6f	Any other specific method of rehabilitation	Not Applicable	Not Applicable	
6g	Cost incurred on watch & care during the year	Not Applicable	Not Applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Not Applicable		
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Not Applicable		
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Not Applicable		
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not Applicable		
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not Applicable		
6m	Compliance of Rehabilitation of waste land within lease (i)Afforestation	Not Applicable		
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Not Applicable		
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Applicable		

6p	Compliance of Environmental monitoring (core zone & buffer zone)	Monthly monitoring.	Monitoring is done on monthly basis.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Carried out as proposed		

7. Mineral Conservation (2023-24):

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	As per proposal	
7c	Different grade of mineral sorted out at mines	Minerals sorted as per grade.	As per proposal	
7d	Any beneficiation process at mines	NO		
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Carried out as proposed		

8. Environment (2023-24):

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps to be formed.	Done as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	After exhaustion, overburden, waste rock, rejects and fines dumps for restoring the land to its original use.	Will be complied as per proposal.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	2020-21= 435nos. 2021-22= 435nos. 2022-23=50nos. 2023-24=80nos.	2020-21= 1000nos. 2021-22= 1500nos. 2022-23=790nos. 2023-24=5000nos.	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Engagement of water tanker for dust suppression.	Two water tanker engaged for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Carried out as proposed		

9. Compliance of Rule 45 (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual returns to be submitted before 9 th of every month and before 30th June of year.	Monthly and Annual returns submitted before 9 th of every month and before 30th June of year.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- 01no. Geologist-01no. and Manager- 01no.	Mining Engineer- 01no. Geologist-01no. and Manager- 01no.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-5.41ha, waste disposal-0.1ha, Mineral storage-1.430ha, occupied by plant, building, roads etc-4.486ha	Area under mining- 2.98ha, waste disposal-0.11ha, Mineral storage- 1.430ha, occupied by plant, building, roads etc-4.486ha	
9d	Scrutiny of Annual return on Afforestation	Plantation- within lease- 80nos	Plantation- within lease-1000nos, outside lease-4000no.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	13975.00MT, below 55% Fe	1475.00MT, below 55% Fe	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM -299065.00MT,	ROM produced-243400.00MT, Closing stock-1400.00MT FINES:- 1. 51%Fe to below 55%Fe-3504.920MT 2. 55%Fe to below 58%Fe-7461.715MT 3. 58%Fe to below 60%Fe-15913.340MT 4. 60%Fe to below 62%Fe-6122.120MT 5. 62%Fe to below 65%Fe-4790.34MT CLO:- 6. Below 62%Fe CLO any size-5912.810MT 7. 62%Fe to below 65%Fe-6584.420MT 8. 65%Fe and above-119.290MT	
----	--	-------------------	--	--

9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost etc.		55% - 58% Fines:- DNA MINERALS PVT LTD- 3853.340MT- 1,46,42,692.00 SYNTRADO -7691.11MT- Rs.28457107.00 Global Marketing - 7700.800mt- Rs.2,69,52,800.00 BS MINERALS PVT LTD- 3835.170MT- Rs.1,15,05,510.00 58% - 60% Fines:- DNA MINERALS PVT LTD -27541.43MT- Rs.96949917.00 STEEOGRAPH ASCENDERS - 7674.99MT- Rs.30690453.0 SYNTRADO -3852.440MT-Rs. 1,34,83,540.00. MEGHRAJ LOGISALES PRIVATE LIMITED - 7707.25Mt- Rs.29290121.00 SEVEN HILLS MINERALS -3850.400MT-Rs. 1,61,71,680.00 GANESHA STEEL- 3845.23MT- Rs.15380920.00 60% - 62% Fines:- Shyam sel & power limited -7692.5MT- Rs.28465250.00 DNA MINERALS PVT LTD -10936.97MT- Rs.40993557.00, MEGHRAJ LOGISALES PRIVATE LIMITED - 3857.910MT,- Rs.1,35,02,685.00,	
----	--	--	---	--

			GANESHA STEEL- 11370.75MT,- Rs.50101763.00, STEEOGRAPH ASCENDERS - 11475.83MT- Rs.50876727.00, SEVEN HILLS MINERALS - 3856.270MT,- Rs.1,61,96,334.00 62% - 65% Fines:- GANESHA STEEL- 7076.820 MT,- Rs.3,13,99,833.00 Below62% Fe CLO:- RAIGARH ISPAT AND POWER PVT LTD - 22843.250MT-Rs. 16,40,01,337.00 DNA MINERALS PVT LTD -3850.720MT-Rs. 2,96,50,544.00, PANCHAWATI STEELS LLP-790.260MT- Rs.60,05,976.00 NRVS STEELS LTD- 3824.550MT- Rs.2,44,77,120.00 62%Fe to below65% Fe CLO:- N.R. ISPAT AND POWER PVT LTD - 3853.450MT,-Rs. 3,46,81,050.00 SUN STEEL AND POWER PRIVATE LIMITED - 3852.810MT,- Rs.2,77,40,232.00 NRVS STEELS LTD- 3852.810MT-Rs. 2,96,66,637.00 GLOBAL MARKETING - 15401.56MT,Rs111659 775.00 DNA MINERALS PVT LTD-11546.44MT,- Rs.88138193.00	
--	--	--	---	--

			PANCHAWATI STEELS LLP- 10806.01MT, Rs.85209 612.00, RAIGARH ISPAT AND POWER PVT LTD - 14792.08MT, Rs.10366 3590.00, RS ORE AND TRADING PRIVATE LIMITED - 6868.74MT, Rs.480811 80.00, SHRI JAGANNATH STEELS AND POWER LTD - 3007.580MT, Rs.2,10,53,060.00 Above 65% Fe CLO:- SHRI JAGANNATH STEELS AND POWER LTD - 2800.710MT, Rs. 1,96,04,970.00 Ex mine price- FINES:- 1. 51%Fe to below 55%Fe-2651.00 2. 55%Fe to below 58%Fe-3533.64 3. 58%Fe to below 60%Fe-3707.73 4. 60%Fe to below 62%Fe-4068.93 5. 62%Fe to below 65%Fe-4436.99 CLO:- 6. Below 62%Fe CLO any size-7158.85 7. 62%Fe to below 65%Fe-7432.85 8. 65%Fe and above- 7000.00 Production cost- Direct cost-465.85 Overhead cost-248.00 Depreciation-78.99, Royalty-746.25 DMF-223.88 NMET-14.93 Taxes-969.63 Dead rent-0.71 Others-1.55 Total-Rs.2749.79	
--	--	--	---	--

9h	Scrutiny of Annual return on fixed assets		Value of fixed assets- Rs.316196933.00	
9i	Scrutiny of Annual return on mining machineries		Backhoe-3nos, Dumper-4nos., Loader-01no, water tanker-02 nos	

JITENDRIYA PRADHAN
24.03.2025