# MCDR INSPECTION Format

### General

SL. No.	Particulars	Details
1	File no.	MCDR-MiFL0CR/1/2023-BBS-IBM_RO_BBS
2	Name of the Inspecting Officer	Vikram Deshpande, Assistant Controller of mines
3	Date of Inspection	26/11/2024
4	Name of the Mine	Bangur Chromite Mines
5	Total Lease Area (Ha) with breakup of Non-forest	139.940 Ha.
	and forest land	Non Forest- 139.940 Ha.
6	Minecode	11ORI08001
7	IBM Registration Number under rule 45 of MCDR,	4269/IBM/2011
0		
8	Name of the lessee, Address,	Odisha Mining Corporation Ltd.
	phone, email and fax number	UMC House, Bhubaneswar
0	7711	Email-omcoangur@gmail.com
9	v mage	Bangur
10	Taluka/Mandal	
11	District	Keonjhar
12	Pincode	758078
13	State	Odisha
14	Post office	Dhanurjoypur
15	Nearest police station	Soso
16	Nearest Railway station	Bhadrak
17	Date of Grant of Mining Lease	03.02.1973
18	Date of Execution	02.09.1975
19	Date of opening of Mine	O/C- 25.01.1980 , U/G- 29.05.2000
20	Date of expiry	01.09.2025
21	Name of the Nominated Owner with Address,	Sri Balwant Singh, IAS
	phone, email, fax number and date of appointment	The Odisha Mining corporation Ltd, OMC House GPO, Post Box
		No-34, Bhubaneswar, Khurda, Pin-751001, Ph No- 0674-2393431
		Email- info@orissamining.com
		DOA- 08.01.2021
22	Name of the Mine Agent with Address, phone,	Sri Ashish Kumar Samantray
	email, fax number and date of appointment	Bangur Chromite Mines, M/s-OMC Ltd.
		Po- Dhanurjoypur, Dist-Keonjhar, Pin-758078
		Mobile No- 9937207144
		Email- aksamantray@odishamining.in
		DOA- 22.08.2024
23	Name of the <b>Mines Manager</b> with Address, mobile	Sri Susanta Kumar Naik
	no, email, fax number and date of appointment in	Bangur Chromite Mines, M/s-OMC Ltd.
	mine	Po- Dhanurjoypur, Dist-Keonjhar, Pin-75807
		Email- sknaik@odishamining.in
		Mobile No- 9777940276
		DOA- 06.04.2021
22	Name of the <b>Mining Engineer</b> , Qualification and	Sri Rakesh Kumar Nayak
	total experience with Address, mobile no, email,	Degree in Mining Engineering with first class manager
	tax/phone number and date of appointment in mine	competency with more than 07 years of experience.
		Bangur Chromite Mines, M/s-OMC Ltd.
		Po- Dhanurjoypur, Dist-Keonjhar, Pin-75807
		Email- rakesh.nayak@odishamining.in
		Mobile No- 9668514212
22		DUA- 01.10.2024
23	Name of the <b>Geologist</b> , Qualification and total	Sri Radheshyam Sahoo,
	experience with Address, mobile no, email, fax	Bangur Unromite Mines, M/S-UMU Ltd.,
	number and date of appointment in mine	Po- Dnanurjoypur, Dist-Keonjnar, Pin-7580/8
		Email- radnesnyam.sanoo@odisnamining.in
		NIODILE INO- 63/2/49365
24	Dete of Assumption (D) (D) (D)	DUA- 13,04,2024
24	Date of Approval of Mining Plan/Review of Mining	Keview of Mining Plan Letter No. MPM/A/07-ORI/BHU/2018-
	Plan/ their modifications with five-year period and	19/1458 dated. Ub.11.2019
25	specific condition in approval letter, if any.	renou- 01.04.2020 to 31.03.2025
25	ivineral(s) granted in lease and proved for mining	
26	wieinod of Wilning(Opencast, Underground)	
2/	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
28	Captive/Non Captive	
29	Present EC Capacity	6UUUUMT

# Exploration:-

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
1a	Backlog of previous year			Exploration in G1 axis has been completed over lease
1b	Exploration over lease area for Geological axis 1 or 2.			area of 64.02Ha.
1c	Exploration Agency & Expenditure in lakh Rupees during the year			
1d	Balance area to be explored to bring Geological axis in 1 or 2			
1e	Balance reserves as on 01.04.2024		4,440,742 MT	
	General remarks of inspecting officer on	Bangur ML of OMC	Ltd is Southern pa	rt of exposed Boula-Nuasahi
	geology, exploration etc.	ultramafic complex. The ultramafic complex strikes NNW-SSE direction		
		dipping at 750-800 towards NE. Further, Exploration in G1 axis has been		
		completed over lease an	rea of 64.02Ha.	

## Development:-

SL.No	Item	Proposals	Actual work	Remarks
•		(FY 2023-24)		
2a	Location of development	-30 mRL Block-2,	0 & -30 mRL Block-	Existing Contractor left the site in
	w.r.t. lease area	0 mRL (290S/39E),	4, 0 & -30 mrL	between the contract period on
		-30 mRL (290S/21W),	Block-2	01.07.2019 and new Mining
		-30 mRL (250S/30W),		Operator (MO) was engaged and
		-30 mRL(250S/135W)		site was hand over on 21.12.2021.
				Due to this there is no
				development from FY2020-2021
				&
				FY2021-2022. Thus, the
				proposed development of those
				years was carry forwarded.
2b	Separate benches in topsoil,	Not Applicable	Not Applicable	
	overburden and mineral			
2c	Stripping ratio or ore to OB	Not Applicable	Not Applicable	
	ratio			
2d	Quantity of topsoil	Not Applicable	Not Applicable	
	generation in m3			
2e	Quantity of overburden	Not Applicable	Not Applicable	
	generation in m3			
	General remarks of	The mine has one open pit which	h is not in operation. The p	production is reported from
	inspecting officer on	Underground working. The under	erground workings are rest	tricted in North Block, Panel 'B'.
	development of pit w.r.t.			
	type of deposit etc.			

# Exploitation:-

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
3a	Number of pits proposed for	South Block-2	North Block (Panel	
	production	(0 to -30 mRL)	B)	
			(0 to -30 mRL)	
Зb	Quantity of ROM mineral production proposed	98400 MT	22615 MT	
Зс	Recovery of salable/usable mineral from ROM production	60000 MT	21331.970 MT	
3d	Quantity of mineral reject generation	6000 MT	2165 MT	This has been blended with high grade chrome ore to make saleable
3e	Grade of mineral reject generation and threshold value declared	+10 – 30% Cr2O3	+10 - 30% Cr2O3	
3f	Quantity of sub-grade mineral generation	Not applicable	Not applicable	
3g	Grade of sub-grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject		Done	Internal analysis was done for sub-grade mineral.
Зј	Provision of drilling & blasting in mineral benches	No	Maintained	
3k	Provision of mining machineries in mineral benches	No	Maintained	
31	Whether height of benches in	Not applicable	Not applicable	Only underground

	overburden and mineral suitable for method of mining proposed in MP/SOM			operation.
3m	Total area covered under excavation/pits	13.30 Ha	13.30 Ha	Only underground operation.
3n	Ore to OB ratio for the pit/mine during the year	Not applicable	Not applicable	Only underground operation.
30	Total area put in use under different heads at the end of year	i. Already exploited & abandoned by open cast mining is 13.300Ha	i. 13.300Ha	
		ii. Used for waste disposal is 11.510 Ha.	ii. 11.510 Ha	
		iii. Occupied by plant, buildings, residential, welfare building &	iii. 6.23 Ha	
		roads is 6.23 Ha. iv. Mineral Storage is 4.34 Ha.	iv. 4.34 Ha	
Зр	Production of ROM mineral during			Existing Contractor left the
-	last five-years period, as applicable			site in between the contract
	Year- 2019-20	90890 MT	650 MT	period on 01.07.2019 and
	Year- 2020-21	34979 MT	Nil	new Mining Operator
	Year- 2021-22	94546 MT	Nil	(MO) was engaged and site
	Year-2022-23	98400 MT	15643 MT	was hand over on
	Year-2023-24	98400 MT	22615 MT	21.12.2021. Due to this
	Total	417215 MT	38908 MT	there is no production from FY2020-2021 & FY2021-2022.
	General remarks of inspecting officer on method of mining etc.	Mining operations are carried stope method. It is restricted	ed out by Underground l to North Block, Panel	method of mining by open 'B'.

#### Solid Waste Management-Dumping:-

SL.No.	Item	Proposals (FY 2023- 24)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Dumping of waste material at open cast quarry for reclamation.	Dumping of waste material done at open cast quarry for reclamation	No top soil generated and waste generated is used for reclamation in open cast quarry.
4b	Location of topsoil, OB & mineral reject dumps	Dump-3(Waste) E- 21:16:06.65 to 21:15:58.22 N- 86:19:50.77 to 86:19:52.25	Dump-3(Waste) E- 21:16:06.65 to 21:15:58.22 N- 86:19:50.77 to 86:19:52.25	Mineral rejects are blended with high grade chrome ore to make saleable
4c	Number of dumps within lease area and outside lease area	3 nos. Dump No.1- Inactive & stable	3 nos. Dump No.1- Inactive & stable	Dump No-1 E- 21:16:07.89 to 21:15:49.07 N- 86:19:18.37 to 86:19:27.80
		Dump No.2- Inactive & stable Dump No.3- Active	Dump No.2- Inactive & stable Dump No.3- Active	Dump No-2 E- 21:15:50.58 to 21:15:47.93 N- 86:19:42.53 to 86:19:44.62 Dump No-3 E- 21:16:06.65 to 21:15:58.22 N- 86:19:50.77 to 86:19:52.25
4d	Location of dumps w.r.t. ultimate pit limit		Location is maintained as per plan	The Open cast Operation has been discontinued from 1998 and underground operation was commenced from 2000.
4e	Number of active & alive dumps	1 no.	1 no.	Dump No-3
4f	Number of dead dumps	2 nos.	2 nos.	Dump No-1 & Dump No-2
4g	Number of dumps stabilized	2 nos.	2 nos.	Dump No-1 & Dump No-2
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Available	
4i	Length of Retaining wall or garland	Not in proposal	Not in proposal	Retaining wall or garland

drain all along dump		drain is already present
		all along dump

4j	Number of settling ponds	1 no.	1 no.	Water is maintained in the Quarry from bottom RL i.e., +17 mRL to +25 mRL.
	Specific comments of inspecting officer on waste dump management	There are 3 dumps in tota active dump is covered w	l existing in the lease out of ith garland drain.	which 2 are stabilized. The

### Solid Waste Management-Backfilling:-

SL.No.	Item	Proposals (FY 2023-	Actual work	Remarks
		24)		
5a	Status on part or full extraction of	Not applicable	Not applicable	
	mineral from mined out area before			
	starting backfilling			
5b	Area under backfilling of mined out area	42000 Cu.M	12199 Cu.M	
5c	Concurrent use of topsoil for restoration	Not applicable	Not applicable	
	or rehabilitation of mined out area			
5d	Total area fully reclaimed &	Not applicable	Not applicable	
	rehabilitated			
	The Northen part of the open pit is being	The Northen part of the	open pit is being backfilled by	waste generated from
	backfilled by waste generated from	underground workings.		
	underground workings			

#### Progressive Mine Closure Plan:-

SL.N.	Item	Proposals (FY 2023-24)	Actual work	Remarks
6a	Whether Annual report on PMCP	To be submitted by 30 <sup>th</sup>	Submitted on 27.06.2024	
	submitted on time and correctly -	June	vide letter No.	
	Rule 26(2).		403/OMC/BCM/2024	
6b	Management of worked/mined out			
	benches	:) NT:1	i) Nil	
	(ha)	1) 111	1) 1/11	
	ii) Afforestation done (ha)	ji) Nil	ii) 0.3 ha	
	iii) No. of saplings planted during	iii) 500 nos.	iii) 500 nos.	
	the year	,	,	
	iv) Cumulative no. of plants	iv) 8000 nos.	iv) 9400 nos.	
	v) Any other specific method of			
	rehabilitation	v) Nil	v) Nil	
	vi) Cost incurred on watch & care	vi) 500000 IND	xi) 410009 IND	
		VI) 500000 INK	VI) 410000 INK	
6c	Compliance on reclamation and			
	rehabilitation by backfilling	·\ NT']	·\	
	I) VOIDS AVAILABLE TOF DACKTITING (L	1) INII	1) INII	
	ii) Void filled by waste/tailings	ii) 42000 cum	ii) 12199.2 cum	
	iii) Afforestation on the backfilled			
	area	iii) Nil	iii) Nil	
	iv) Rehabilitation by making water			
	reservoir	iv) Nil	iv) Nil	
	v) Any other specific means	iv) Nil	iv) Nil	
			IV) INII	
6d	Compliance of Rehabilitation of			
	waste land within lease			
	i) Afforestation	i) Nil	i) Nil	
	ii) Area rehabilitated (ha)	ii) Nil	ii) Nil	
60	Compliance of Environmental	III) INII Dogular, Environmental	III) INII Environmental	
0e	monitoring (core zone & buffer	monitoring of Ambient	monitoring done by	
	zone)	Air Ouality, Water	Centre for Envotech and	
		Quality etc to be done	Management	
			Consultancy Pvt. Ltd.	
	General remarks of inspecting	_		
	officers on PMCP compliance and	The mining operations are be	ing carried out by underground	method.
	progressive closure operations etc.			

### Mineral Conservation:-

	<u>intervation</u>			
SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-	Grade wise sorting within	Sorting and sizing done as	
	wise sorting within lease area	the lease	per proposal.	
7b	Method of grade-wise mineral	Manual Method of grade-	Manual Method of grade-	
	sorting i.e. manual or mechanical	wise mineral sorting	wise mineral sorting	
		proposed	carried out.	
7c	Different grade of mineral sorted	Below 40% Cr2O3	Below 40% Cr2O3	
	out at mines	40% to below 52% Cr2O3	40% to below 52% Cr2O3	
		Above 52% Cr2O3	Above 52% Cr2O3	
7d	Any beneficiation process at mines	No	No	
	General remarks of inspecting	Except manual sorting no ot	her beneficiation process is ca	rried out. Further, the
	officer on Mineral conservation &	grade-wise sorting is done as	s per buyers specification.	
	beneficiation issues	-		

#### Environment:-

SL.No.	Item	Proposals ((FY 2023- 24)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Not applicable	Not applicable	No top soil as it is underground mines
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines	Dumping of waste in Dump-3	Done as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste generated to be used for reclamation in open cast quarry	waste generated is used for reclamation in open cast quarry	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Waste generated to be used for reclamation in open cast quarry	waste generated is used for reclamation in open cast quarry	
8f	Baseline information on existence of plantation & additional plantation done		Being Maintained	
8g	Survival rate	75%	75%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to be done to control airborne dust	Water sprinkling done by water tanker	As per requirement the water spraying is done which is nearly 1KLD.

### **Compliance of Rule 45**

SL.No.	Item	COMMENTS		Remarks.
9a	Status of submission of Monthly and	M.R. Submitted up to December-2024 A.R. submitted up to 31 <sup>st</sup> March-2024		
	Annual returns			
S.N.	Item	Details GIVEN in A.R.	Actual in field	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Susanta Kumar Naik Mine Manager & Mining Engineer. Sri Debasis Nayak, Geologist	Sri Susanta Kumar Naik, Mine Manager. Sri Radheshyam Sahoo, Geologist. Sri. Rakesh Kumar Nayak, Mining Engineer.	New Geologist appointed on 19.04.2024 and new Mining Engineer appointed on 01.10.2024.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<ul> <li>i. Already exploited &amp; abandoned by open cast mining is 13.300Ha</li> <li>ii. Used for waste disposal is 11.510 Ha.</li> <li>iii. Occupied by plant, buildings, residential, welfare building &amp; roads is 6.23 Ha.</li> <li>iv. Mineral Storage is 4.34 Ha.</li> </ul>	i. 13.300Ha ii. 11.510 Ha iii. 6.23 Ha iv. 4.34 Ha	
9d	Scrutiny of Annual return on afforestation	500 nos.	500 nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	2165 MT	Appears to be correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	2382.830 MT ROM	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Lumps: (i) Below 40% Cr2O3- Rs 18438.97 (ii) 40% to below 52 % Cr2O3- Rs 21001.82 Fines: (i) Below 40% Cr2O3- Rs 12377.61 (ii) 40% to below 52 % Cr2O3- Rs 14354.88 (iii) 52% and above Cr2O3- Rs	Appears to be correct.	

		25075.00 (iv)Concentrates- Rs 3508.25 Cost of Production: Rs 21716.00		
9i	Scrutiny of Annual return on fixed assets	₹ 47744777	Appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	AIR COMPRESSOR-5 GENERATOR (DIESEL)-3 HAULAGE (ELEC.)-1 PUMPS (ELEC.)-6 BLAST HOST DRILL-4 FRONT END LOADER-1 ROCK DRILL (NON- ELEC.) –10 ROCK DRILL (ELEC.)-1 ROCKER SHOVEL-5 TIPPER-2	Observed to be correct.	

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