

**Information Sheet**

**Part-I: General**

S. N.	Particulars	Details
1	Name of the Mine	BANDHAL MANGANESE MINES
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	28.0207 Ha Non Forest land : 28.0207 ha Forest Land : Nil
3	Mine code	40/ORI13052
4	IBM Registration Number under rule 45 of MCDR,	IBM/630/2011
5	Name of the lessee, Address, phone, email and fax number	Kanakdhara Mining & Minerals Pvt. Ltd. Regd. Off : AT/PO- Barbil, Dist : Keonjhar (Odisha) Ph : 9437075837 M..id – <a href="mailto:kanakdhara.mining@gmail.com">kanakdhara.mining@gmail.com</a>
6	Village	Bandhal
7	Taluka/Mandal	Koira
8	District	Sundergarh
9	Pin code	770048
10	State	Odisha
11	Post office	Dengula
12	Nearest police station	Koira
13	Nearest Railway station	Barbil
14	Date of Grant of Mining Lease	05.09.2001
15	Date of Execution	14.03.2002
16	Date of opening of Mine	09.06.2003
17	Date of first Renewal, if applicable and its period	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	Not Applicable
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Atmesh Kumar Sharma, At/P.O. – Barbil, Dist – Keonjhar, Odisha. Mob – 7008064692. Mail id – <a href="mailto:atmesh.ksharma@gmail.com">atmesh.ksharma@gmail.com</a> Date of appointment – 05.06.2003
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Arsh Narayan Prasad, Mining Engineer (Part time) B.E (Mining), Exp. 18 Years At/P.O. – Barbil, Dist – Keonjhar, Odisha. Mob – 8763332754 Date of appointment – 16.10.2017

24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Anil Kumar Sharma, part time Geologist , M.Sc ( Geology), Exp. 16 Years AT/PO- Chaibasa (West Singhbhum), Jharkhand Mob : 7008400921 Date of appointment—30.11.2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of approval of Mining Plan : 27.08.2001 Valid for the period : 2003-2008.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Date of approval of Mining Scheme : 19.02.2009 Valid for the period : 2008-2013  Date of approval of Mining Scheme : 09.04.2013 Valid for the period : 2013-2018  Date of approval of Mining Scheme : 10.11.2017 Valid for the period : 2018—2022 Date of approval of review of Mining plan- 08.03.2022 Valid for the period-14.03.2022 to 2026-27.
27	Mineral(s) granted in lease and proved for mining	Manganese
28	Method of Mining(Open cast, Underground)	Open Cast
29	Category (Fully Mechanized, Others or Manual)	B Manual
30	Captive/Non Captive	Non Captive

#### Details about Mining Plan/ Mining Scheme

a) Letter No. and date of approval of mining plan	:	BBS/SNG/MN/MP-112 dt – 27.08.2001
b) Letter No. and date of approval of Review of Mining Plan	:	MS/MAN/38-OR/BHU/2008-09 dt-19.02.2009 MS/MAN/36-OR/BHU/2012-13 dt-09.04.2013 MS/MAN/21-ORI/BHU/2017-18 dt-10.11.2017
c) Period of mining plan/ mining scheme in force :	:	MS/MAN/21-OR/BHU/2018-19 dt10.11.2017.
(d) Letter no. and date of approval of review of mining plan	:	MPM/A/27-ORI/BHU/2021-22dt 08.03.2022.

### PART III-

#### 1. Scientific Mining:

##### Exploration:

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	21	21	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	147000.00	147000.00	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	

1e	Balance reserves as on 01.04.2022. □		111994 (in metric Tonne)	
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## **2. Development:**

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	S20 to S200 & W20 to W170 up to 8-10m. S20 to S200 and W20 to W170	S20 to S200 & W20 to W170. S20 to S200 and W20 to W170	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	OB-4 Nos of benches Ore-02 Nos	OB-4 Nos Ore- 01 Nos	
2c	Stripping ratio or ore to OB ratio	Ore to OB 1:12.63	Ore to OB 1: 8.07	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	25259 M.T	3405.5 M.T	

## **3. Exploitation**

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	2000 (In metric tonne)	422.108 ( in metric tonne)	
3c	Recovery of salable/usable mineral from ROM production	89%	85%	
3d	Quantity of mineral reject generation	200	422.108	
3e	Grade of mineral reject generation and threshold value declared	10- 25 %	10-25%	
3f	Quantity of sub-grade mineral generation	200	422.108	

3g	Grade of sub-grade mineral generation	10-25 %	10-25%	
3h	Manual / Mechanized method adopted for segregating from ROM	Manual segregation	Manual segregation	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade	No Proposal	N.A.	
3j	Provision of drilling & blasting in mineral benches	Occasional use of short hole drilling & blasting	Occasional use of short hole drilling & blasting	
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	3.5	2.55	
3n	Ore to OB ratio for the pit/mine during the year	Ore to OB 1: 12.63	Ore to OB 1: 8.07	
3o	Total area put in use under different heads at the end of year	By the end of 2022-23 :- Plantation – 0.1 Road -nil Infrastructure - nil Terracing-nil Sub grade & mineral storage -0.26 Waste dump side-nil Quarry – 0.2 Total Area-0.71	Plantation – 0.1 Infrastructure – nil Road – nil Dump – nil Sub grade & mineral storage - nil Terracing – nil Quarry – 0.05 Total Area -0.15	
3p	Production of ROM mineral during the last five year period as applicable.	2018-19 :4000 2019-20: 5000 2020-21- 6000 2021-22-8000 2022-23-2000	2018-19 :1243.059 2019-20: 741.376 2020-21 - 697.599 2021-22-606.216 2022-23-422.108	

#### 4. Solid Waste Management-Dumping:

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No top soil dump & one OB dump.	As per proposal	

4b	Location of topsoil, OB & mineral reject dumps	Location of OB dump E314921.69-315029.37 &N2422706.09-2422836.49	As per proposal	
4c	Number of dumps within lease area and outside lease area	Within lease area – 1 Outside lease area - 0	Within lease area – 1 Outside lease area – 0	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Location of OB dump E314921.69- 315029.37&N2422706.09- 2422836.49	As per proposal	
4e	Number of active & alive dumps	One	One	
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	Cemented Retaining wall is constructed	
4i	Length of Retaining wall or garland drain all along dump	200X1.5X1.5	225x1.5X1.5	
4j	Number of settling ponds	one	One	

#### **5. Solid Waste Management-Backfilling:**

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	

#### **6. Progressive Mine Closure Plan:**

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.	Annual report to be filed on prescribed time.	Annual report on PMCP is being submitted in due time.	
6b	Area available for rehabilitation (ha)	Nil	Nil	
6c	Afforestation done (ha)	0.1 ha	0.1 ha	

6d	No. of saplings planted during the year	500	800	
6e	Cumulative no. of plants	6835	11160	
6f	Any other specific method of rehabilitation	nil--	nil--	
6g	Cost incurred on watch & care during the year	50000	33500	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	nil--	nil--	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	nil--	nil--	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	nil--	0.05	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	--nil	--nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	--nil	--nil	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	1	1.	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	--nil	--nil	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	--nil	--nil	
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring of environmental parameters is being done through approved analytical agency.	Quarterly monitoring of environmental parameters is being done through approved analytical agency.	

## **7. Mineral Conservation:**

<b>S.N.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual work</b>	<b>Remarks</b>
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2000 MT	422.108 MT	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	No	No	

### **8. Environment:**

<b>S.N.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual work</b>	<b>Remarks</b>
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	-Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	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	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes	Yes	
8g	Survival rate	100%	61%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	

### **9. Compliance of Rule 45**

<b>S.N.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual work</b>	<b>Remark</b>
9a	Status of submission of Monthly and Annual returns	Yes	Done	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Geologist (Part time) -1 Mining Engineer (part time)-1 Mines manager -1	Geologist-Anil kumar Sharma (Part time -1 Date of joining-30.11.2017 Mining Engineer-A N Prasad (Part time)-1 Date of joining-16.10.2017 Mines Manager-A .K. Sharma -1 Date of joining-05.06.2003	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining 2.7 O.B/Waste dumping 1.5 Minerals Storage 0.31 Infrastructure 0.01 Roads 0.05 Others (Greenbelt) <u>1.3</u> Total <u>6.32</u>	Opencast Mining(Pit)-2.55 Ha. Reclaimed/Rehabilitated-1.5Ha Use for waste disposal-1.5 Ha Occupied by building & Road-1.206 Ha. Other Purpose (Green belt)-1.3 Ha. Under Progressive Mine closer	
9d	Scrutiny of Annual return on Afforestation	Waste land & barrel land 0.1	0.1	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	200 MT	Below 25% Mn 422.108 MT	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Below 25% Mn 1319.658 MT, 25% to below 35% 373.132 MT, 35% to below 46% Mn 2.855 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost etc.	Nil	Sale Value RS. 7,41,300/-, Ex Mine Price Rs. 3376/-P/MT for below 25% Mn and Rs. 15,000/- P/MT for 35% to below 46% Mn and Production Cost Rs. 8665/- P/MT	
9h	Scrutiny of Annual return on fixed assets	Yes	Rs.9,98,456/-	
9i	Scrutiny of Annual return on mining machineries	Yes	Pumps (Non Elect) -2, Tipper- 1, Others (Non Elect)-1	

**NIL VIOLATIONS**