

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BHIL-467/FQ-266

Mine code : 26RAJ06022

- (i) Name of the Inspecting : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Arihant Jain, Rep. of Lessee
Official with
Designation
- (iv) Date of Inspection : 13/12/2022
- (v) Prev.inspection date : 07/09/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ODIYAKHERA 150/2006**
- (b) **Registration NO.** :
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : RAJASTHAN
- District : BHILWARA
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail : DINESHJAIN150@GMAIL.COM
- Phone : 9352145577
- (f) **Police Station** : BHILWARA
- (g) **First opening date** : 08/07/2008
- (h) **Weekly day of rest** : SUN
2. **Address for** :
- correspondance**
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : GARNET Main

5. Name and Address of the

Lessee : DINESH KUMAR JAIN
DINESH KUMAR JAIN
VILL.&PO.KHARWA, TEH.
BEAWAR AJMER RAJASTHAN
Phone:
FAX :

Owner : DINESH KUMAR JAIN
S/O NEMI CHAND JAIN, PO.
KHARWA, TEH. BEAWER, AJMER
RAJASTHAN
Phone:
FAX :

Agent : DINESH KUMAR JAIN S/O BHAGCHAND JAIN
R/O - GURUNANAK COLONY,
BUNDI BUNDI RAJASTHAN
Phone:
FAX :

6. Date of approval of Mining : MP review under 17(1) MCR 2016 12/04/2019
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed in the previous year 2021-22. As per Review of Mining Plan with progressive closure plan approved for the period 2019-20 to 2022-23 the lesse was suppose to prospect the area by the way of pitting/trenching and boreholes. During the year 2020-21 total 10 Core boreholes were proposed with total meterage of 342m.	No exploration carried out.	
1b	Exploration over lease area for geological axis 1 or 2	No proposal for previous year i.e. 2021-22. However it was proposed to cover 3.28 hectares of area during the year 2020-21 for G-1.	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself , No expenditure estimated for the previous year 2021-22.	Nil, no exploration carried out during the previous year.	

1d	Balance area to be explored to bring Geological axis in 1 or 2	3.28 hectares of area was proposed to be explored during the year 2020-21. Therefore no proposal was incorporated for the year 2021-22 .	No exploration carried out as proposed during the year 2020-21. Therefore 3.28 hectare of area is still to be explored for G1
1e	Balance reserve as on 01/04/20	Total 789048 tonnes of reserves-resources have been estimated with 468624 tonnes of 111.	Total 789048 tonnes of reserves-resources with 468624 tonnes of 111 as on date of inspection.
1f	General remarks of inspecting officers on geology, exploration etc	NA	The area needs to be explored thoroughly as per proposals in Review of Mining Plan. The lessee who declared himself as prospecting agency should implement the proposals on priority basis.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to commence mining from NE-SW part of the lease area during the year 2021-22.	No mining carried out during the year 2021-22.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	No mining carried out during the year 2021-22.	
2c	Stripping ratio or ore to OB ratio	Stripping ratio of 1:0.781was estimated for the year 2021-22	No mining carried out during the year 2021-22.	

2d	Quantity of topsoil generation in m3	Nil	No mining carried out during the year 2021-22.
2e	Quantity of overburden generation in m3	4368 tonnes of OB with Toal waste generation of 60008 tonnes were estimated for the year 2021-22.	No mining carried out during the year 2021-22.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	No mining carried out during the year 2021-22. Proper development of the pit w.r.t type of deposit is required to be undertaken as per proposals in Review of Mining Plan.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit.	No mining carried out during the year 2021-22.	
3b	Quantity of ROM mineral production proposed	62192 tonnes of ROM Garnet (Abrasive) during hte year 2021-22.	No mining carried out during the year 2021-22.	
3c	Recovery of sailable/usable mineral from ROM production	30% recovery from ROM was estiomated. It was estimated to recover 18658 tonnes of Garnet (Abr.) from ROM during the year 2021-22.	No mining carried out during the year 2021-22.	
3d	Quantity of mineral reject generation	43534 tonnes of waste generation was expected during the year 2021-22. Futher 21400 cu.m. of mineral reject was estimated during the year 2021-22.	No mining carried out during the year 2021-22.	

3e	Grade of mineral rejects generation and threshold value declared.	NA	No mining carried out during the year 2021-22.
3f	Quantity of sub grade mineral generation.	NA	No mining carried out during the year 2021-22.
3g	Grade of sub grade mineral generation	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	It was proposed to sort the mineral produced by magnetic separator.	No mining carried out during the year 2021-22.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No study proposed during the year 2021-22.	Nil
3j	Provision of drilling and blasting in mineral benches	It was proposed to perform controlled blasting for loosening/ fragmenting the material from in-situ rock formations for quartz mining. No blasting requirement assessed for Garnet mining.	Not applicable.
3k	Provision of mining machineries in mineral benches	One JCB excavator of 0.9cu.m.and two dumpers/tippers of 20MT and one water pump of 10 HP was proposed on hire basis.	No mining carried out during the year 2021-22.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height proposed as 4m and width 5-6 m.	No mining carried out during the year 2021-22.
3m	Total area covered under excavation/pits	It was expected to cover 1.361 hectares of area under excavation/pit	No mining carried out during the year 2021-22.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.781	No mining carried out during the year 2021-22.
3o	Total area put in use under different heads at the end of year	Pits- 1.361 ha Dump for Ore Stacking - 0.05 ha Soil Stacking -0.2 ha Dump for O/b- 0.76 ha Road- 0.04 ha Plantation- 0.08ha	No mining carried out during the year 2021-22.
3p	Production of ROM mineral during the last five year period as applicable	223184 tonnes for four years period from 2019-20 to 2022-23.	No mining carried out during the period.
3q	General remarks of inspecting officers on method of mining etc.	NA	The mine is non working at present. Strict compliance itemwise schedule of method of minig is required.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, separate dumping was proposed.	Nil, No mining carried out during the year 2021-22.	
4b	Location of topsoil, OB and mineral reject dumps	NA	Nil, No mining carried out during the year 2021-22.	

4c	Number of dumps within lease area and outside of lease area	88S-143S,283W-333W;58S-123S,250W-301W; 36S-108S,228W-278W;07S-097S,193W-257W (Total area 7600 sq.m.) for waste	Nil, No mining carried out during the year 2021-22.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Nil, No mining carried out during the year 2021-22.
4e	Number of active and alive dumps.	NA	Nil
4f	Number of dead dumps.	NA	Nil
4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	Nil
4i	Length of Retaining wall or garland drain all along dumps	NA	Nil
4j	Number of settling ponds	Nil	Nil, No mining carried out during the year 2021-22.
4k	Specific comments of inspecting officer on waste dump management	NA	No waste dump observed as the mine is suspended since 01.08.2014

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NA	Nil,no mining activity in the area as the mine is suspended since 01.08.2014	
5b	Area under backfilling of mined out area	NA	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	Nil
5d	Total area fully reclaimed and rehabilitated	NA	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	Not matured for backfilling or reclamation.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	NA	No, the mine is non - working.	
6b	Area available for rehabilitation (ha) .	NA	Nil	
6c	afforestation done (ha).	0.02 hectare, 50 Nos.	No plantation done as the mine is non working.	
6d	No. of saplings planted during the year	50 Nos.	Nil, No plantation done.	
6e	Cumulative no .of plants	250 plants	Nil	
6f	Any other method of rehabilitation	NA	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Not matured for reclamation and rehabilitation.	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Not matured for reclamation and rehabilitation.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	Not matured for reclamation and rehabilitation.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Not matured for reclamation and rehabilitation.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	Not matured for reclamation and rehabilitation.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	Area not matured for rehabilitation.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	Area not matured for rehabilitation.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	Not matured for reclamation and rehabilitation.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	No mining activity continued in the area during the year 2021-22.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	After start of mining PMCP Compliance should be ensured and progressive closure operations should be implemented.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	62192 tonnes of ROM Garnet was proposed to be produced during the year 2021-22	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical sorting of ROM was proposed.	Nil	
7c	Different grade of mineral sorted out at mines.	NA	Nil	
7d	Any beneficiation process at mines	Nil	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The issues related with conservation of mineral should be attended as per proposals in approved mining plan.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil during the year 2021-22	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil during the year 2021-22	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes separate dump proposed.	Nil as the mine is non-working.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	Nil
8g	Survival rate	70%	Nil, No plantation program undertaken.
8h	Water sprinkling on roads to control airborne dust	Yes water sprinkling on roads to control air borne dust was proposed.	Nil, non working mines
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	NA	Annual return for the year 2021-22 was submitted on 07.11.2022.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under o/c workings- 0.005 ha, used for waste disposal- 0.170 ha, Occupied by plant, building etc. 0.0415 ha.	The area is aprox. correct.
9d	Scrutiny of Annual return on afforestation	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Land- 600000, Residential building - 70000 and Capitalised Expenditure- 300000 Total Rs. 970000	Teh data furnished in the AR 2021-22 seems to be correct.
9k	Scrutiny of Annual return on mining machineries	Nil	Nil

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

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines