

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/CR/DKL/MCDR-4/BBS

**Mine code :** 11ORI05004

- (i) Name of the Inspecting : **AKP** ) **ASHOK KUMAR PANY**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Abhishek Rath (Agent)  
Official with  
Designation
- (iv) Date of Inspection : 18/11/2021
- (v) Prev.inspection date : 03/03/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ASURABANDHA CHROMITE MINE**
- (b) **Registration NO.** : **IBM/20873/2016**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : DHENKANAL
- Village : Asurabandha
- Taluka : Bhuban
- Post office : Bhuban
- Pin Code : 759017
- FAX No. : 0674-2430528
- E-mail : ricl.bbsr@gmail.com
- Phone : 0674-2430528
- (f) Police Station : BHUBAN
- (g) First opening date : 10/10/2016
- (h) Weekly day of rest : SUN
2. Address for : village- ASURABANDHA, PO-CHANDIPAL  
correspondance PS-BHUBANA  
DIST-DHENKANAL, PIN-759 017
3. (a) Lease Number :
- (b) Lease area : 91.827 ha
- (c) Period of lease : 20 year
- (d) Date of Expiry : 24.05.2035
4. Mineral worked : CHROMITE Main

## 5. Name and Address of the

Lessee : M/S REAL INDIA CONSULTANCY LTD  
 PLOT NO - 428/3818 JAYDEV  
 NAGAR, NEAR PANTHANIVAS  
 BHUBANESWAR BHUBNESHWAR  
 ORISSA  
 Phone:0674 2430528  
 FAX :0674 2430520

Owner : M/S REAL INDIA CONSULTANCY LTD  
 PLOT NO 428/3818 JAYDEV  
 NAGAR MNEAR PANTHNIVAS  
 BHUBNESHWAR ORISSA  
 Phone: 06742430528  
 FAX : 06742430520

Agent : ABHISHEK RATH  
 N-3/194 IRC VILLAGE  
 NAYAPALLI BHUBANESWAR  
 BHUBNESHWAR ORISSA  
 Phone: 8763332876  
 FAX : 0674 2550442

## Mining Engineer

Name : SHRI DEBASISH BEHERA,Full Time  
 Qualification : B E (MINING)  
 Appointment/ : 01/12/2016  
 Termination date

## Geologist

Name : Shri Ajit Kumar Khatua,Full Time  
 Qualification : Msc Geology  
 Appointment/ : 27/08/2019  
 Termination date

## Manager

Name : SHRI SATYABADI SAHOO  
 Qualification : DIPLOMA MINING ENGG  
 Appointment/ : 22/10/2018  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 30/03/2021

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	18 Nos.	Nil	No surface right
1b	Exploration over lease area for geological axis 1 or 2	During the year 2020-21, No bore holes proposed	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per Review of Mine Plan approved on 31.03.2021, the balance area to be explored is 82.077 ha	As per Review of Mine Plan approved on 31.03.2021, the balance area to be explored is 82.077 ha	
1e	Balance reserve as on 01/04/20	The balance reserve as on 01.02.2021 is as follows:- Reserve-109123 tonne Resource-16184 tonne	The balance reserve as on 01.02.2021 is as follows:- Reserve-109123 tonne Resource-16184 tonne	
1f	General remarks of inspecting officers on geology, exploration etc			Floating deposit of chromite ore in pocket form.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry-1	Quarry-1	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed	Carried out	

2c	Stripping ratio or ore to OB ratio	1:4.5	1:4.5	
2d	Quantity of topsoil generation in m3	1806 Cum	Nil	No work due to local problem and covid-19
2e	Quantity of overburden generation in m3	40538 Cum	Nil	No work due to local problem and covid-19
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			This is a new mine and mining carried out in small scale in semi-mechanised method.

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	200025 Tonne	6 tonne	Less work due to local problem and covid-19
3c	Recovery of sailable/usable mineral from ROM production	97%	NA	
3d	Quantity of mineral reject generation	4400 tonne	Nil	Less work due to local problem and Covid-19
3e	Grade of mineral rejects generation and threshold value declared.	Threshold value is 10%Cr2O3	Threshold value is 10%Cr2O3	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	No proposal	NA
3k	Provision of mining machineries in mineral benches	Excavator and dumper	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	1.807 ha	1.807 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:4	1:4
3o	Total area put in use under different heads at the end of year	Total area put to use as on 03.03.2021 is 6.257 ha	Total area put to use as on 03.03.2021 is 6.257 ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 (1ST) - 103015 MT 2016-17 (2ND) - 128677 MT 2017-18 (3RD) - 154430 MT 2018-19 (4th) - 150030 MT 2019-20 (5th) - 200025 MT 2020-21 (6th) - 200025 MT	2015-16- Nil 2016-17- Nil 2017-18 - 3665.1 MT 2018-19 -821.117 2019-20- Nil 2020-21- 6 MT

3q General remarks  
of inspecting  
officers on  
method of mining  
etc.

Mining carried out  
in semi-mechanised  
opencast method.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	carriedout	
4b	Location of topsoil, OB and mineral reject dumps	Between the grid 800 West to 700 West	Between the grid 800 West to 700 West	
4c	Number of dumps within lease area and outside of lease area	1 (one) Dump within lease	1 (one) Dump within lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	
4e	Number of active and alive dumps.	01	01	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Na	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	1 Nos	1 Nos.	

4k	Specific comments of inspecting officer on waste dump management	A small dump present in the lease area. The waste generated used for construction of haul road.
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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.	No proposal	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Area not matured.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Area not matured
5e	General remarks of inspecting officers on backfilling and reclamation etc.			This is a new mine and no area matured for backfilling/reclamation.

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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).	To be submitted on or before 1st July	Submitted	

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6b	Area available for rehabilitation (ha) .	Nil	Nil	No area matured
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	800 Nos.	Nil	No surface right.
6e	Cumulative no .of plants	Na	500 Nos.	
6f	Any other method of rehabilitation	Nil	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	Nil	Nil	Area not matured
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Nil	Nil	
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	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring proposed	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			New mine no area mature for reclamation/rehabilitation.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Below 40% Cr2O3 and 40% to 52% Cr2O3	Below 40% Cr2O3 and 40% to 52% Cr2O3	
7d	Any beneficiation process at mines .	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and use of top soil proposed	carried out	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	carried out	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	Nil	
8g	Survival rate	80%	Nil	
8h	Water sprinkling on roads to control airborne dust	Proposed	carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty around mine area maintained as mining carried out in small scale.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The information on Mine Manager and geologist furnished	Appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit-4.758 ha, Reclaimed area -0 ha,	The area put to use under excavation during plan period is 4.795 ha	

9d	Scrutiny of Annual return on afforestation	228 Nos. of Plantation	228 Nos. of Plantation
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	ROM stock is 19.506 tonne	ROM stock is 19.506 tonne
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The cost of production is Rs. 2500.00	The cost of production is Rs. 2500.00
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets- Rs. 44832037.00	Value of fixed assets- Rs. 44832037.00
9k	Scrutiny of Annual return on mining machineries	Dumper- 4 Nos. Shovel- 1 Nos.	Dumper- 4 Nos. Shovel- 1 Nos.

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**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 :**

**(ASHOK KUMAR PANY)**

Indian Bureau of Mines