

MCDR INSPECTION REPORT

**General**

<b>S. N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine, Inspecting official from IBM & Date of Inspection	Kachche Ari Dongri Mine, Shri Rajesh Kumar Das, SrACOM & Shri R.N.Mishra, SMG, 31.10.2017
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	138.96 Ha
3	Mine code	30CHG08008
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4342/2011
5	Name of the lessee, Address, phone, email and fax number	Godawari Power & Ispat Ltd
6	Village	Kachche
7	Taluka/Mandal	Bhanupratappur
8	District	Kanker
9	Pincode	494635
10	State	Chhattisgarh
11	Post office	Kachche
12	Nearest police station	Kachche
13	Nearest Railway station	Dalli
14	Date of Grant of Mining Lease	03/09/2015
15	Date of Execution	03/09/15
16	Date of opening of Mine	09/09/15
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Vinod Pillai, Hira Arcade, Pandri, Raipur Mob- 9893774747
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri K K Jha, Mine Agent Village-Kachche Post-Kachche Tehsil-Bhanupratappur Dist.- Kanker date of appointment-08/09/15
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri J B Singh, Mines Manager Village-Kachche Post-Kachche Tehsil-Bhanupratappur Dist.- Kanker date of appointment in mines-08/09/15

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shailendra Suryavanshi, Mining Engineer Village-Kachche Post-Kachche Tehsil-Bhanupratappur Dist.- Kanker date of appointment in mines-08/09/15
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	03/07/15,K&K/Fe/MPLN-115/NGP
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Iron Ore
28	Method of Mining(Opencast, Underground)	O/C
29	Category (Fully Mechanised, Others or Manual)	Mechanised
30	Captive/Non Captive	Captive

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			
1b	Exploration over lease area for Geological axis 1 or 2.	Axis 1-30Bore hole	No Bore Hole	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	GPIL, 50 Lakh	49.2 Lakh, GPIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	10 Ha	Nil	No drilling against the
1e	Balance reserves as on 01.04.2017	7.44 million tons	7462239 MT in 111(as on 01.04.2017)	
1f	General remarks of inspecting officer on geology, exploration etc.	The area is not explored and more than 50% area is there to explore. As per present exploration vein type deposit is in existence and accordingly mining is done.		

#### **Development**

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N to SE Direction of Lease Area	North to South Direction of Lease Area	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not specifically mentioned	OB-4 Bench, Iron Ore-12 Bench	
2c	Stripping ratio or ore to OB ratio	1:2.22		
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	

2e	Quantity of overburden generation in m <sup>3</sup>	1062150	820957.6	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is done broadly according to proposal.		

### Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	Mostly production is done in one pit but small working is done in second bench
3b	Quantity of ROM mineral production proposed	1147385	984535.81	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Chemical Analysis Lab at Mine side	Chemical Analysis Lab at Mine side	
3j	Provision of drilling & blasting in mineral benches	Yes, Deep hole drilling & Blasting.	As per proposal.	
3k	Provision of mining machineries in mineral benches	HEMM use at mine side after permission of DGMS for 106(2b)	Broadly as per proposal.	
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		26.30 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:2.22	1.19 Ha	
3o	Total area put in use under different heads at the end of year		48.43 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2012-13:705000 MT, 2013-14:705000 MT, 2014-15: no proposal document is under progress, 2015-16:968750 MT, 2016-17:1147385	2012-13:660821.90 MT, 2013-14:325797.61 MT, 2014-15:404271.35 MT, 2015-16:420069.85 MT, 2016-17:985178.41 MT	
3q	General remarks of inspecting officer	The method of working is broadly as per proposal and it is opencast		

on method of mining etc.	mining with deep hole drilling blasting.
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### **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 and mineral rejects, only OB dump	No top soil and mineral rejects, only OB dump	
4b	Location of topsoil, OB & mineral reject dumps	South western side of lease area	Northern western side of lease area	Deviation in dumping.
4c	Number of dumps within lease area and outside lease area	2	2	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	800m far from UPL line	Not as per proposal	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	1	1	
4g	Number of dumps stabilised	1	1	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	1125m	1125m	
4j	Number of settling ponds	2	2	
4k	Specific comments of inspecting officer on waste dump management	The present dumping is not as per proposal and it is shifted to NW w.r.t. ML		

### **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	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc			Area not matured for backfilling.

### **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.	Proposal given	Not Submitted	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done	1. Nil 2. 2.08Ha 3. 5100 4. ___ 5. No 6. 15.55 Lakh	i) Nil ii) 2.08Ha iii) 5100 iv) ___ v) No vi) 15.55 Lakh	

	(ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year			
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L *B * D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise & Water sample taken for analysis in core and buffer zone.	Air, Noise & Water sample taken for analysis in core and buffer zone.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Broadly as per proposal.		

### **Mineral Conservation**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer	There is no beneficiation facilities within lease area and only		

on Mineral conservation & beneficiation issues	crushing and screening facility available.
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**Environment**

S.N.	Item	Proposals	Actual work	Remarks
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	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Overden is dump as per proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Afforestation is done in non mineralized and safety barrier area.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes outside lease area	Yes outside lease area, 1100 no of trees	
8g	Survival rate	95%	95%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The top soil is mostly used for afforestation and afforestation is done as per proposal.		

**Compliance of Rule 45**

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns			
S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining engineer, geologist and manager present during mine as mentioned in Annual return.	Mining Engineer- Mr. Ram Lakhhan Thakur, Geologist- Mr Roopsai Taigor, Manager- Mr. J.B. Singh
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	26.3 ha. covered under o/c working, 12.34 ha. waste disposal, infrastructure- 9.79 ha.	Broadly the area matching as per updated plan provided in mine.	
9d	Scrutiny of Annual return on afforestation	Within lease area 5100 nos trees planted with survival rate of 95%	Afforestation observed during field visit.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	128843.52 MT	ROM stocks observed in ML.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price-819.75 Rs ,cost of production	Cost of production mentioned more than Ex-mine price.	

		1599 Rs		
9i	Scrutiny of Annual return on fixed assets	649334 Rs		
9k	Scrutiny of Annual return on mining machineries	Shovel(Hydraulic) capacity 0.9 m3 tp 2.6m3,wheel loader,Dumper 15 tons,Dozer,drill 100 mm & Air Compressor.	Equipment are all contractual and during mine visit five shovels are operational.	

**Details of violations observed during current inspection and compliance position of earlier violation pointed out:-**

<b>Rule</b>	<b>Nature of Violation observed</b>
11(1)	<p>Mining operations should have been undertaken in accordance with the approved Mining Plan/Scheme of Mining.</p> <p>The Mining Plan was approved vide letter no.KNK/FE/MPLN-1151/NGP dated 03.07.2015 and following deviation was observed during inspection</p> <ol style="list-style-type: none"> <li>1. It was proposed to drill 30 nos core drill holes of 100 meter depth each proposed in 2016-17 but till date no drilling started.</li> <li>2. The dumping for 2016-17 was proposed near the western lease boundary (near BP- G) but actually the dumping is done near northern lease boundary.</li> </ol>
Rule 26	A yearly report as per the format specified by the Indian Bureau of Mines, before 1 <sup>st</sup> day of July every year setting forth the extent of protective and rehabilitate works carried out has not been submitted for the year 2016-17
Rule 33	Updated print copy of the surface geological plan and sections has not been submitted before 30 <sup>th</sup> day of June for the year 2016-17.
Rule 45	While scrutiny of the Annual return submitted for 2016-17 it is observed that ex-mine price and cost of production are different and cost of production is almost double the ex-mine price as the mine is for captive use.

**Earlier violation broadly complied only the violation related to dumping is still found deviation.**

**Rajesh Kumar Das, Senior Assistant Controller of Mines, 31.10.2017**  
**(Name of inspecting officer with designation and date)**