

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-192-C/HYD

Mine code : 38APR11144

- (i) Name of the Inspecting : **PR09**) **M.Pratap.Reddy**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : K.NAGENDRA BABU REP. OF LESSEE
Official with
Designation
- (iv) Date of Inspection : 20/08/2016
- (v) Prev.inspection date : 12/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : KOLIMIGUNDLA(4.048 HA)
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KURNOOL
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : -
- E-mail : pbr ssminerals@Gmail.com
- Phone : CELLNO :9440008718
- (f) **Police Station** : KOLIMIGUNDLA
- (g) **First opening date** : 14/08/2002
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : VILL&POST:KOLIMIGUNDLA
MANDAL: KOLIMIGUNDLA
DISTRICT:KURNOOL. ,ANDHRAPRADESH
3. (a) **Lease Number** : APR2828
- (b) **Lease area** : 4.05
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 21/08/2022
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S SRI SAINATH MINERALS
KOLIMIGUNDLA KURNOOL
ANDHRA PRADESH
Phone:
FAX :

Owner : M/SSAINATH MINERALS
VILL &POST:KOLINIGUNDLA
MANDAL:KOLINMIGUNDLA DIST:
KURNOOL KURNOOL ANDHRA
PRADESH
Phone:
FAX :

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 23/04/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	3 Boreholes were proposed	The lessee had drilled 8 Boreholes	4 Core borholes & 4 DTH holes
1b	Exploration over lease area for geological axis 1 or 2	G1 Scale of Exploration	G1 Scale of Exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself. No expenditure proposals are given.	Lessee himself carried out the exploration. The expenditure incurred is Rs.6,11,000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	-	The entire ML area is explored as per the UNFC norms.
1e	Balance reserve as on 01/04/20	G2 Reserve =335977 T G3 Reserve=983233 T	G2 Reserve 344960 T G3 Reserve=983233 T	
1f	General remarks of inspecting officers on geology, exploration etc	Simple sedimentary bedded deposit with the proposals of G1 scale of exploration	It is a simple bedded deposit of Proterozoic age(Kurnool group). G1 Scale of exploration has been carried out.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between grid lines 1140N-1245N & 1100E-1251E	The development and production has been carried out at the proposed site.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate Top soil and mineral(Limest one) benches were proposed	Separate soil and Limestone benches have been formed.	
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.035	
2d	Quantity of topsoil generation in m3	No top soil generation proposals during the year 2015-16	-	Mining operations are confined to the already degraded land.

2e	Quantity of overburden generation in m3	1996 cum	3800 cum	The quantity of waste generated during development is on heigher side due to widening and cavity incidences in Limestone horizon.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The deposit is a sedimentary bedded deposit with sub horizntal dip. The proposals of development are confined to single pit.	As the deposit is simple bedded sedimentary deposit and as proposed the deveopment/production is confined single pit.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Single Pit only.
3b	Quantity of ROM mineral production proposed	The proposed production during 2015-16=96,000 T	The production achieved during 2015-16=93,250 T	
3c	Recovery of sailable/usable mineral from ROM production	95%	93-97% recovery.	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No generation of mineral rejects. The Threshold value is 35% caO content.	There is no generation of Mineral rejects. The Thresh hold value at 35% caO adhered.	
3f	Quantity of sub grade mineral generation.	No proposals of subgrade generation	No subgrade mineral is generated.	
3g	Grade of sub grade mineral generation	No proposals	-	
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.	No such proposals since there is no sub grade mineral.	-
3j	Provision of drilling and blasting in mineral benches	Jack hammer drilling with tractor mounted Compressor is proposed.	The proposed method is practiced.
3k	Provision of mining machineries in mineral benches	No provision of Mining machinery in mineral benches.	-
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	1.973 ha	1.908 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04	1:0.038
3o	Total area put in use under different heads at the end of year	2.798 ha	2.780 ha
3p	Production of ROM mineral during the last five year period as applicable	2011-12=44,299 T, 2012-13=96,000 T, 2013-14=96,000 T, 2014-15=96,000 T and 2015-16=96,000 T	2011-12=23,325 T, 2012-13=1,10,000 T, 2013-14=1,05,833 T, 2014-15=96,0079,934 T and 2015-16=93,250 T
3q	General remarks of inspecting officers on method of mining etc.	Opencast -semi mechanised method of Mining is proposed.	The mining operations as proposed is carried out.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil and mineral reject proposals. A provision for dumping waste material is made.	As per the proposals, the waste is dumped at demarcated place.
4b	Location of topsoil, OB and mineral reject dumps	OB dumping is proposed between grid lines 1078N-1120N and 1146E-1186E	The overburden is dumped at designated place
4c	Number of dumps within lease area and outside of lease area	One dump with in the ML area.	One dump with in ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump proposal is beyond UPL limit.	The OB dump is beyond UPL limit.
4e	Number of active and alive dumps.	One active dump	There is only one active dump.
4f	Number of dead dumps.	Nil	There are no dead dumps.
4g	Number of dumps established.	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposals have been made.	-
4i	Length of Retaining wall or garland drain all along dumps	No such proposals	-
4j	Number of settling ponds	Nil	-
4k	Specific comments of inspecting officer on waste dump management	Meagre quantity of intercalated waste generation in the form of waste is proposed.	A quantity of 4491 T as anticipated is dumped between 1078N-1120N and 1146E-1186E

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No such proposals	-	The mineral is yet to exhaust and backfilling does not arise.
5b	Area under backfilling of mined out area	No such proposals.	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of Top soil for Afforestation in 7.5 m buffer zone is proposed.	As proposed the top soil is productively used for afforestation purpose in 7.5m buffer zone.	During the 2015-16, there is no generation of Top soil as the mining activity is confined to already degraded area.
5d	Total area fully reclaimed and rehabilitated	Nil	-	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There are no backfilling and reclamation proposals.	-	The pit is not yet matured for back filling and reclamation as the mineral is continuing at depth.

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).	Proposals are given	The annual report on implimentation of the proposals have not been submitted.	Rule 23E(2) of MCDR 1988 was pointed out to the party.
6b	Area available for rehabilitation (ha) .	Nil	-	
6c	afforestation done (ha).	50 saplings over an extent of 0.075 ha in 7.5m buffer zone.	60 saplings have been done in 7.5m buffer zone.	
6d	No. of saplings planted during the year	50 saplings	60 saplings	
6e	Cumulative no .of plants	150 saplings	170 saplings.	

6f	Any other method of rehabilitation	None	-	
6g	Cost incurred on watch and care during the year	Rs 5000/-	Rs.6500/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No such proposals	-	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposals	-	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposals	-	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposals	-	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposals	-	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposals	-	There is no waste land with in the ML area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposals made.	-	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposals	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposals given	Being monitored
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Except environmental protective measure, no other progressive closure operations are furnished.	Environmental protective measures are being undertaken

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	96,000T	There is no grade wise sorting with in the lease area. The ROM mineral dispatched is 97,983 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	No gradewise sorting is proposed,	-	
7d	Any beneficiation process at mines	No beneficiation process	Except sizing, no beneficiation is done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No beneficiation proposals.	Except sizing no beneficiation is done and also there is no recovery losses except handling losses.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There are no topsoil removal proposals.	The mining activity is confined to already degraded land.	
8b	Concurrent use or storage of topsoil	No such proposals during 2015-16	-	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	A provision of seperate dump of intercalated waste in the form of OB is made.	As per the proposals, seperate dumping has been done.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposals envisaged.	-	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals envisaged.	-	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Complimentary afforestation proposed in the 7.5m buffer zone.	As proposed, the complimentary afforestation is done.	
8g	Survival rate	80%	75%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul roads to supress air borne dust is proposed.	As proposed, water sprinkling is done periodically to supress airborn dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	To add aesthithic beauty, afforestation in 7.5m buffer zone is proposed.	As proposed, afforestation in 7.5m buffer zone is done.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual/Monthly returns to be submitted for the preceeding yeear before the schduled dates.	Returns have been submitted with in the stipulated period of time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	provision for the appointment Mining Engineer and Geologist have been made.	There is no full time Mining Engineer and Geologist.	A violation of Rule 42(1)(C)(ii) of MCDR'1988 has been pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	No proposals have been made.	-	
9d	Scrutiny of Annual return on afforestation	Proposals have been made.	Deatails of saplings have been furnished.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No such proposals have been made.	-	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details have to be furnished.	The closing stock as on 31.3.2016 is 5628 T	
9k	Scrutiny of Annual return on mining machineries	Furnished	The deployment of One Excavator(.7 cum) and three Tippers(2.5 cum) have been furnished.	

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
Rule 42(1)(C)(II)	20/08/2016				
Rule 27(4)	20/08/2016				
Rule 23E(2)	20/08/2016				

Date :

(M.Pratap.Reddy)

Indian Bureau of Mines