INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Ranchi regional office

Mine file No : JHK/WSB/LST-01/RRO Mine code: 38JHK18018

(i) Name of the Inspecting : R002) RAGHVENDRA KUMAR

Officer and ID No.

(ii) Designation : Assistant Mining Engineer

(iii) Accompaning mine :

> Official with Designation

(iv) Date of Inspection : 11/04/2022 Prev.inspection date : 10/10/2021 (v)

PART-I : GENERAL INFORMATION

(a) Mine Name : RAJANKA LIMESTONE MINE (115.38HA)

(b) Registration NO.

(C) Category : A Fully Mechanised

(d) Type of Working Opencast

(e) Postal address

> State : JHARKHAND

District SINGHBHUM (WEST)

Village Taluka

Post office Pin Code FAX No.

b.sridhar@acclimited.com E-mail

Phone

(f) Police Station : TONTO

First opening date : 15/06/2020 (g)

Weekly day of rest (h) : SUN

Address for : VILL. - RAJANKA, KODWA & DOKATA, correspondance

PO- JHINKPANI, TALUKA- CHAIBASA,

DIST. - WEST SINGHBHUM (JHARKHAND).

3. (a) Lease Number :

> (b) Lease area :

Period of lease (C)

(d) Date of Expiry

Mineral worked 4. : LIMESTONE Main 5. Name and Address of the

Lessee : ACC LTD.

SRI PRABHAT KR RUNGTA M/S ACC LTD, VIKAS BHAWAN BARIATU RD, RANCHI-834008

RANCHI JHARKHAND

Phone: 0651-541327, 541297, 541458, 541579

FAX :0651-541845

Owner : NEERAJ AKHOURY

M/s A.C.C. Limited,

Chaibasa Cement Works P.O. - Jhinkpani SINGHBHUM

(WEST) JHARKHAND

Phone: FAX:

Agent : RAJ GURUNG

ACC LIMITED CHAIBASA CEMENT

WORKS P.O.- JHINKPANI SINGHBHUM (WEST) JHARKHAND Phone: +91-9798863126

FAX :

Mining Engineer

Name : SANJEEV TRIPATHI, Full Time
Qualification : B.E.(MINING ENGINEERING)

Appointment/ :
Termination date

Geologist

Name : J.SUSEENTHIRAN, Full Time

Qualification : M.Sc. (GEOLOGY)

Appointment/ : 01/01/2022

Termination date

Manager

Name : Bitasta Banarjee

Qualification : M.Sc. in Applied Geology.

Appointment/ : 01/01/2022

Termination date

6. Date of approval of Mining Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 Boreholes has Proposed during 2020- 2021	No Boreholes has drilled.	Due to delay in land acquisition, exploration has not taken place.
1b	Exploration over lease area for geological axis 1 or 2	75 boreholes were proposed during 2017- 2022 in the lease area for Geological axis - 1	11 boreholes have been drilled in the lease area for Geological axis - 1. Exploration is still continuing.	Due to delay in land acquisition, exploration has not taken place. 20 number of boreholes has been proposed in RMP period (2022-2027).
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were proposed for Exploration.	Boreholes are drilled by Geo Environment Service & ACC	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed out at 100m X 100m grid interval. 75 Additional exploration was proposed in plan period (2017- 2022)	Exploration was not carried out at 100m X 100m grid interval. Due to delay in land acquisition, for availability of ore from G-2/3 to G-1 in 50 hectares under G-2.	37 boreholes have been drilled during 2000-2001 so far with 1894 meterage. 61 hectares has been proved under G-1.

1e Balance reserve as on 01/04/20

Reserves & Resources as on 01.04.2022 (Off white L.st + Pink L.st + Grey Shale Lst) Probable Mineral Reserves (121) =14.345 million tons (122) = 5.188million tons PreFeasibilit y Mineral Resources (221) =16.229 million tons (222) = 0.143million tons Inferred Mineral Resources (333) =

Reserves & Resources as on 01.04.2021 (Off white working to delay L.st + Pink L.st + Grey Shale Lst) Probable Mineral Reserves (121) = 18.955 million tons (122) = 5.188 milliontons Pre-Feasibility Mineral Resources (221) = 16.229 million tons (222) = 0.143 milliontons Inferred Mineral Resources (333) = 17.753

million tons

Mine is nonin land acquisition.

General remarks 1f of inspecting officers on geology, exploration etc Limestone formation of the Chaibasa region belongs to the Kolhan series of the Cuddapah age.

17.753 million tons

> F3 block composed of purple shale, underlain by green shale, grey shale, pink limestone and off white limestone folloed by purple sandstone.

Entire Lease is having Same Geology and Mineralogy is changes from place to place. Hence borehole has to be drilled at closer interval to get quantity and quality.

Development :

Sl.No.	Item	Propasals	Actual	work	Remarks
2a	Location of development w.r.t.lease area			done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to form Separate Bench's as Topsoil - 1 Overburden - 4 benches Mineral - 5 benches	No	work	done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
2c	Stripping ratio or ore to OB ratio	1 : 0.23	No	work	done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
2d	Quantity of topsoil generation in m3	During 2021- 2022 it is proposed Top Soil as 635Cu.m	No	work	done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
2e	Quantity of overburden generation in m3	During 2020- 2021 it is proposed OB as 24765Cu.m	No	work	done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed to work in section 00 from 299 mRL to 281 mRL, in section 600S from 326.96 mRL to 281 mRL, in section 700S from 326 mRL to 272 mRL.	No	work	done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Development A and production were proposed in 3 Quarry.	No work done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

3b	Quantity of ROM mineral production proposed	The total target of ROM Production was 2.11 million tons during 2021-2022.	No work done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3c	Recovery of sailable/usable mineral from ROM production	ROM Recovery 100%	No work done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3d	Quantity of mineral reject generation	No proposal for mineral reject during 2021-2022.	No work done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal.	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3f	Quantity of sub grade mineral generation.	It is proposal to generate 843860.7cu.m of Sub Grade.	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3g	Grade of sub grade mineral generation	<pre>Grey shale limestone = Cao+35%</pre>	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	Not done	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

3j	Provision of drilling and blasting in mineral benches	Spacing - 5m Burden - 3m Depth - 9m It is Proposed to drill by 110mm dia, crawler mounted down hole drill.	Not done	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3k	Provision of mining machineries in mineral benches	Shovels Backhoe Rock Breaker Excavators Maintenance Van Truck Dozer Drill Dumper Explosive Van	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 10m was proposed in Mineral.	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3m	Total area covered under excavation/pits	47.07 на	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.23	No work done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
30	Total area put in use under different heads at the end of year	81.99 на.	No work done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3p	Production of ROM mineral during the last five year period as applicable	2017-18 Nil 2018-19 1000000 MT 2019-20 1500000 MT 2020-21 2100000 MT 2021-22 2100000 MT	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

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

Method is Proposed.

Lease executed on 28.12.2017. Mine is not started and entire area is barren.

Mine is nonworking to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Generated OB/ Intercalated waste will be dumping on Northern Side of Quarry no- 2.	As per proposal the dumping is not carried out. Mine is not started and entire area is barren.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4b	Location of topsoil, OB and mineral reject dumps	Northern Side of Quarry no-2.	As per proposal the dumping is not carried out. Mine is not started and entire area is barren.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4c	Number of dumps within lease area and outside of lease area	Lease area =1 Non Lease area= Nil	Lease area =Nil Non Lease area= Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL, Northern Side of Quarry no-2.		Mine is nonworking to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4 e	Number of active and alive dumps.		As per proposal dumps are not formed.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4f	Number of dead dumps.	Dead Dumps = Nil	Nil	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

4g	Number of dumps established.	No Proposal	Nil	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, Proposed around the dumps.	As per proposal retaining wall has been not formed around dumps.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4i	Length of Retaining wall or garland drain all along dumps	Proposed around the dumps.	As per proposal retaining wall has been not formed around dumps.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4j	Number of settling ponds	No Proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4k	Specific comments of inspecting officer on waste dump management	Generated OB/ Intercalated waste will be dumping on Northern Side of Quarry no- 2.	As per proposal the dumping is not carried out. Mine is not started and entire area is barren.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

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.	Part Backfilling has proposed.	No Backfilling has done. Mine is not started and entire area is barren.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
5b	Area under backfilling of mined out area	3.66 hectares area proposed for Backfilling.	No Backfilling has done.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	for concurrent use of	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Part Backfilling has proposed.	No Backfilling has done. Mine is not started and entire area is barren.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

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).	It should be on or before 1st July every year.	Submitted for the year 2021-2022.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6c	afforestation done (ha).	No Proposal.	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6d	No. of saplings planted during the year	No Proposal	Nil	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

бе	Cumulative no .of plants	No Proposal.	Nil.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6f	Any other method of rehabilitation	No Proposal.	Nil.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	700*395*50	Nil. Mine is not started and entire area is barren.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3.66 hectares	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	625 saplings proposed in safety barrier area for 2021-2022.	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.25 hect in 2021- 2022.	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
бр	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private Agency.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environment monitoring is carried out through own as well as private Agency.y.	No Plantation has been planted. Mine is not started and entire area is barren.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of ROM Production was 2.11 million tons during 2020-2021.		Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Process	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
7c	Different grade of mineral sorted out at mines.	CaO = 34%, Tc = 59% Proposed during 2021- 2022.		Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
7d	Any beneficiation process at mines .	Crushing & Screening process at adjoining lease area.	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Production was 2.11 million	No Production has carried out.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
8b	Concurrent use or storage of topsoil	No Proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump has been proposed for waste on Northern Side of Quarry no-2.	As per proposal the dumping is not carried out. Mine is not started and entire area is barren.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

Remarks

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	625 saplings/ year have proposed.	No Plantation has been planted. Mine is not started and entire area is barren	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
8g	Survival rate	No proposal	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
8h	Water sprinkling on roads to control airborne dust	proposed for	Nil	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, agriculture are observed in lease area.	Surrounding area beyond lease area is greenery. The area is flat undulating terrain.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

Propasals Actual work

Compliance of Rule 45:

Item

Sl.No.

9a	Status of submission of Monthly and Annual returns	No returns has been submitted.	Mine is non-working & not started.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No returns has been submitted. Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.	Mining Engineer and Geologist are present during Inspection.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	been	Mine is not started and entire area is barren.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
9d	Scrutiny of Annual return on afforestation		Mine is not started and entire area is barren.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Mine is not started and entire area is barren.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	been	Mine is not started and entire area is barren.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Mine is not started and entire area is barren.	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

9h	Scrutiny of Annual return on fixed assets	Mine is not started entire area is barr	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
9k	Scrutiny of Annual return on mining machineries	Mine is not started entire area is barr	Mine is non- working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.

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

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

Date :

 $(\,{\tt RAGHVENDRA}\ \ {\tt KUMAR}\,)$

Indian Bureau of Mines