

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.S.Tripathi, Qualified Person
Official with
Designation
- (iv) Date of Inspection : 10/10/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (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. :
E-mail : b.sridhar@acclimited.com
Phone :
- (f) Police Station : TONTO
- (g) First opening date : 15/06/2020
- (h) Weekly day of rest : SUN
2. Address for : VILL.- RAJANKA, KODWA & DOKATA,
correspondance PO- JHINKPANI, TALUKA- CHAIBASA,
DIST. - WEST SINGHBHUM (JHARKHAND).
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : 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/ :
 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 2019-2020	No Boreholes has drilled.	Due to delay in land acquisition, exploration has not taken place. Exploration has started from 21.09.2021. Draft RMP has been submitted.
1b	Exploration over lease area for geological axis 1 or 2	75 boreholes was 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. Same 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	
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 01.04.2021 (Off white L.st + Pink L.st + Grey Shale Lst) Probable Mineral Reserves (121) = 14.345 million tons (122) = 5.188 million tons Pre-Feasibility Mineral Resources (221) = 16.229 million tons (222) = 0.143 million tons Inferred Mineral Resources (333) = 17.753 million tons	Reserves & Resources as on 01.04.2021 (Off white L.st + Pink L.st + Grey Shale Lst) Probable Mineral Reserves (121) = 18.955 million tons (122) = 5.188 million tons Pre-Feasibility Mineral Resources (221) = 16.229 million tons (222) = 0.143 million tons Inferred Mineral Resources (333) = 17.753 million tons	Mine is non-working to delay in land acquisition.
1f	General remarks of inspecting officers on geology, exploration etc	Limestone formation of the Chaibasa region belongs to the Kolhan series of the Cuddapah age.	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	Proposed to work from 100N to100S & 500S to 700S during 2020-2021.	Nil	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 Nil to form Separate Bench's as Topsoil - 1 Overburden - 4 benches Mineral - 5 benches		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 : 0.50	Nil	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
2d	Quantity of topsoil generation in m3	During 2020-2021 it is proposed OB as 1834883 Cu.m	Nil	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 from 100N to 100S & 500S to 700S during 2020-2021.	During 2020-2021 it is proposed OB as 1834883 Cu.m	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 and production was proposed in 3 Quarry (100N to 100S & 500S to 700S) during 2020-2021.	Nil	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 2020-2021.	Nil	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%	Nil	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 2020-2021	Nil	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 677793 cu.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	Grey shale limestone = Cao+35%	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.	There is no proposal for any beneficiation within lease area	Nil	Froth Floatation plant is installed in other lease area.

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.	Nil	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.
3l	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	35.00 hect area is required during 2020-2021	Nil. Entire area is barren.	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 : 0.50	Nil	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2021. Mines = 35.00 hect Dump = 20.00 hect Mineral Stock = 1.00 hect	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.

3p	Production of ROM mineral during the last five year period as applicable	2020-2021 = 2.11 mill tons 2019-2020 = 2.50 mill tons 2018-2019 = 1.00 mill tons 2017-2018 = Nil Lease executed on 28.12.2017	2020-2021 = Nil 2019-2020 = Nil 2018-2019 = Nil 2017-2018 = Nil 2016-2017 = Nil	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	Lease executed on 28.12.2017. Mine is not started and entire area is barren	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.	As per proposal dumps are not formed.	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
4e	Number of active and alive dumps.	Active Dump =1 Alive Dump =Nil	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	
4g	Number of dumps established.	No Proposal	Nil	
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	
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	0.499 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)	No Proposal for concurrent use of topsoil	Nil	

5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	
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 2020-2021.	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	
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	
6e	Cumulative no .of plants	No Proposal	Nil	
6f	Any other method of rehabilitation	No Proposal	Nil	
6g	Cost incurred on watch and care during the year	No Proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.499 hectares	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	No Proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	625 saplings proposed in safety barrier area for 2020-2021	No Plantation has been started and entire area is barren	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 2020-2021	As per proposal barren land is not Afforested	Mine is non-working to delay in land acquisition. Draft RMP (2022-2027) has been submitted.
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)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private agency.	

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.	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.
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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.	No Production has carried out	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 2020-2021	Nil	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	The total target of ROM Production was 2.11 million tons during 2020-2021.	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
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8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	
8b	Concurrent use or storage of topsoil	No Proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump has been proposed for 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.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	
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 such proposal in the approved document	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Nil	
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.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	No returns has been submitted	Mine is non-working & not started.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No returns has been submitted	Mining Engineer and Geologist are present during Inspection	Mine is non-working & not started.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	No returns has been submitted	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	No returns has been submitted	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)	No returns has been submitted	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	No returns has been submitted	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	No returns has been submitted	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	No returns has been submitted	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.

9k	Scrutiny of Annual return on mining machineries	No returns has been submitted entire area is barren	Mine is not started and area is barren	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 current inspection and compliance position of violation pointed out

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

Date :

(G. S. KANNAN)

Indian Bureau of Mines