

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

**Review and updation of Mining Plan REPORT**

**Ranchi regional office**

**Mine file No :** BIH/GLA/BX/229/RRO

**Mine code :** 07BHR32017

- (i) Name of the Inspecting : **K03** ) **G. S. KANNAN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.Pradip Kumar Sen, Qualified Person  
Official with  
Designation
- (iv) Date of Inspection : 31/07/2020
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SERKA AND SERANGDAG (63.2**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : JHARKHAND  
District : GUMLA  
Village : SERKA AND SERANGDAG  
Taluka : BISHUNPUR  
Post office : GAGHRA  
Pin Code :  
FAX No. : 06526- 224075  
E-mail : N.A.  
Phone : 06526- 224075, 224083
- (f) Police Station : Bishunpur
- (g) First opening date : 01/09/1988
- (h) Weekly day of rest : SUN
2. Address for : VILL-SERKA & SERANDAG  
correspondance PO-GHAGRA,TAHASIL-BISHUNPUR  
DIST-GUMLA
3. (a) Lease Number : JHK0034  
(b) Lease area : 63.25  
(c) Period of lease : 50  
(d) Date of Expiry : 28/04/2038
4. Mineral worked : BAUXITE Main

## 5. Name and Address of the

Lessee : U.P.AGARWAL  
 EAST GOLA ROAD UPPER BAZAR  
 LOHARDAGA LOHARDAGA  
 JHARKHAND  
 Phone:06526-24075(R) ,24083(O)  
 FAX :

Owner : UMESH PRASAD AGARWAL  
 EASTGOLA ROAD UPPER BAZAR  
 LOHARDAGA LOHARDAGA  
 JHARKHAND  
 Phone: 06526-24075(R) ,  
 FAX :

Agent : UDIT NARAYAN SINGH  
 C/o-U.P.AGARWAL EAST GOLA  
 ROAD PO/DIST-LOHARDAGA  
 LOHARDAGA JHARKHAND  
 Phone: 06526-24075  
 FAX :

## Mining Engineer

Name : SRI U.N.SINGH,Part Time  
 Qualification : MATRICULATE, MINES FOREMAN CERTIFICATE N  
 Appointment/ : 31/03/2013  
 Termination date

## Geologist

Name : MADHBANDRA KUILA,Full Time  
 Qualification : M.Sc(GEOLOGY)  
 Appointment/ : 22/12/1999  
 Termination date

## Manager

Name : SRI NAG NARAYAN SINGH  
 Qualification : MINES FOREMAN  
 Appointment/ : 01/08/2010  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	16/09/1998
		Renewal under rule 24 MCR1960	06/05/2010
		MP modif under MCR 1960	30/05/2016
		FMCP under 23C(1)	18/07/2017
		MP modif under 17(3) MCR 2016	03/08/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	21 Core Boreholes Proposed during 2018-2019	No Boreholes has drilled	Mine is not Working, for want of Statuary Clearances from 2012 and suspended on 2013 by IBM
1b	Exploration over lease area for geological axis 1 or 2	21 - Additional exploration was proposed in mining plan over the lease area for Geological axis - 1	Additional exploration was not carried out in the lease area for Geological axis - 1	No Exploration has been carried out as per proposal.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were proposed for Exploration.	No Boreholes has drilled	Mine is not Working, for want of Statuary Clearances from 2012 and suspended on 2013 by IBM
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed out at 100m X 100m grid interval. 21- Additional exploration was proposed in Plan period.	Exploration was not carried out at 100m X 100m grid interval.	Mine is not Working, for want of Statuary Clearances from 2012

1e	Balance reserve as on 01/04/20	Reserves & Resources as on 01.04.2020 Proved Mineral Reserves (111) = 393317 Tons Probable Mineral Reserves (122) = 34316 Tons Feasibility Mineral Resources (211) = 46004 Tons Pre-Feasibility Mineral Resources (222) = 199525 Tons	Reserves & Resources as on 01.04.2020 Proved Mineral Reserves (111) = 611571 Tons Probable Mineral Reserves (122) = 1225283 Tons Feasibility Mineral Resources (211) = 46004 Tons Pre-Feasibility Mineral Resources (222) = 199525 Tons	Hence there is no mining activity; R & R has not been changed from 01.04.2017.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Chotanagpur Granite gneiss. Laterite, Bauxite and Lithomerge occur in the plateau top as capping of Chotanagpur Granite gneiss.	Bauxite deposit is not extensive and continuous but found in limited area only.	Lease is having Same Geology. Hence borehole has to be drilled at closer interval to get quantity and quality

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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed to work in Quarry-1 and Quarry-2	Working has been not carried out as per the proposal	Mine is not Working, for want of Statuary Clearances from 2012
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is proposals for separate Bench's in Topsoil, OB & Minerals	Working has been not carried out as per the proposal	Mine is not Working, for want of Statuary Clearances from 2012

2c	Stripping ratio or ore to OB ratio	1 :0.59	Nil reported, since no production during that period.	Mine is not Working, for want of Statuary Clearances from 2012
2d	Quantity of topsoil generation in m3	43904 m3 of Topsoil proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
2e	Quantity of overburden generation in m3	During 2019-2020 it is proposed OB as 70520 cu.m and Intercalated waste as 36537 cu.m.	Nil	Mine is not Working, for want of Statuary Clearances from 2012
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During 2019-2020 it is proposed OB as 70520 cu.m and Intercalated waste as 36537 cu.m.	Working has been not carried out as per the proposal	Mine is not Working, for want of Statuary Clearances from 2012 and suspended on 2013 by IBM

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Development and production was Proposed to work in Quarry-1 and Quarry-2	Development and production are not carried out.	Mine is not Working, for want of Statuary Clearances from 2012
3b	Quantity of ROM mineral production proposed	The total target of Production was 350753 tons during 2019-2020.	Nil	Mine is not Working, for want of Statuary Clearances from 2012
3c	Recovery of sailable/usable mineral from ROM production	80%	Nil	Mine is not Working, for want of Statuary Clearances from 2012
3d	Quantity of mineral reject generation	There is no proposal to produced mineral rejects during 2018-2019	Nil	Mine is not Working, for want of Statuary Clearances from 2012

3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	Mine is not Working, for want of Statuary Clearances from 2012
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	No Sub Grade Generation	Mine is not Working, for want of Statuary Clearances from 2012
3g	Grade of sub grade mineral generation	No Sub Grade Generation	There is No Generation of Subgrade Mineral	Mine is not Working, for want of Statuary Clearances from 2012
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Nil	Mine is not Working, for want of Statuary Clearances from 2012
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Nil	Mine is not Working, for want of Statuary Clearances from 2012
3j	Provision of drilling and blasting in mineral benches	Spacing - 3.5m Burden - 3m It is Proposed to drill by 110mm dia, crawler mounted down hole drill. Blasting is done by using slurry explosives and nonnel fuses.	Drilling & Blasting are not done	Mine is not Working, for want of Statuary Clearances from 2012
3k	Provision of mining machineries in mineral benches	DTH-3 Excavators-4 Compressor-3 Tippers-3	Nil	Mine is not Working, for want of Statuary Clearances from 2012
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6m was proposed in Mineral.	Nil	Mine is not Working, for want of Statuary Clearances from 2012

3m	Total area covered under excavation/pits	15.05 hect area is under Pit and additional 3.15 hect is required	10.55 hect areas are under Pit only.	Mine is not Working, for want of Statuary Clearances from 2012
3n	Ore to OB ratio for the pit/mine during the year.	1 :0.59	Nil reported, since no production during that period.	Mine is not Working, for want of Statuary Clearances from 2012
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2020. Mines = 18.20 hect Road = 1.10 hect Infra = 0.02 hect Green Belt = 0.30 hect	Land use Pattern as on 01.04.2020. Mines = 10.55 hect Road = 1.10 hect Infra = 0.02 hect	Mine is not Working, for want of Statuary Clearances from 2012
3p	Production of ROM mineral during the last five year period as applicable	2019-2020 = 350753 tons 2018-2019 = 271207 tons 2017-2018 = 218254 tons 2016-2017 = Lapse Period 2015-2016 = Lapse Period	2019-2020 = Nil 2018-2019 = Nil 2017-2018 = Nil 2016-2017 = Nil 2015-2016 = Nil	Mine is not Working, for want of Statuary Clearances from 2012
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	Nil	Mine is not Working, for want of Statuary Clearances from 2012 and suspended on 2013 by IBM

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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)	There is no proposal for forming new dump during 2019-2020. It is proposed to backfill the area simultaneously	There is no generation of OB because of Non-working	Mine is not Working, for want of Statuary Clearances from 2012

4b	Location of topsoil, OB and mineral reject dumps	It is proposed to backfill nearer to Quarry-1 & 2 during the plan period 2017-2020.	As per proposal the backfilling is not carried out during 2017-2020.	Mine is not Working, for want of Statuary Clearances from 2012
4c	Number of dumps within lease area and outside of lease area	Lease area = 2 Non Lease area = Nil	Lease area = 2 Non Lease area = Nil	Mine is not Working, for want of Statuary Clearances from 2012
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There is no proposal of Dump.	Nil	Mine is not Working, for want of Statuary Clearances from 2012
4e	Number of active and alive dumps.	Active Dump = 1 Alive Dump = Nil	There is no active dump within lease area for waste dumping.	Mine is not Working, for want of Statuary Clearances from 2012
4f	Number of dead dumps.	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
4g	Number of dumps established.	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, Proposed around the dumps	Nil	Mine is not Working, for want of Statuary Clearances from 2012
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
4j	Number of settling ponds	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012



4k	Specific comments of inspecting officer on waste dump management	There is no proposal for forming new dump during 2019-2020. It is proposed to backfill the area simultaneously	As per proposal the backfilling is not done concurrently.	Mine is not Working, for want of Statuary Clearances from 2012 and suspended on 2013 by IBM
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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.	Back filling has proposed in mineral exhausted Quarry-1 & 2 during 2019-2020	Nil	Mine is not Working, for want of Statuary Clearances from 2012
5b	Area under backfilling of mined out area	It is proposed to backfill 2.50 hectares during 2019-2020	No hectares has Backfilled against proposal	Mine is not Working, for want of Statuary Clearances from 2012
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use	Nil	Mine is not Working, for want of Statuary Clearances from 2012
5d	Total area fully reclaimed and rehabilitated	Proposed Reclaimed area = 2.50 hect	Achieved Reclaimed = Nil	Mine is not Working, for want of Statuary Clearances from 2012
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Simultaneously Back filling has proposed during the plan period from 2017-2020 in Quarry-1 & 2.	No hectares has Backfilled against proposal	Mine is not Working, for want of Statuary Clearances from 2012 and suspended on 2013 by IBM

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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.	Not Submitted	Mine is not Working, for want of Statuary Clearances from 2012
6b	Area available for rehabilitation (ha) .	Proposed 2.50 hectares during 2019-2020	No hectares has achieved during 2019-2020	Mine is not Working, for want of Statuary Clearances from 2012
6c	afforestation done (ha).	Proposed 0.27 hect in dump area and 1.00 hect in reclaimed area during 2019-2020	No hectares has been afforested during 2019-2020	Mine is not Working, for want of Statuary Clearances from 2012
6d	No. of saplings planted during the year	3175 saplings proposed in backfilled & dump area for 2019-2020	No saplings have been planted in backfilled area & dump area.	Mine is not Working, for want of Statuary Clearances from 2012
6e	Cumulative no .of plants	7300 nos of saplings proposed during the plan period 2017-2020 in the backfilled & dump area.	No saplings have been planted during 2017-2020.	Mine is not Working, for want of Statuary Clearances from 2012
6f	Any other method of rehabilitation	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Proposed 2.50 hectares during 2019-2020	No hectares has achieved during 2019-2020	Mine is not Working, for want of Statuary Clearances from 2012
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Proposed 0.27 hect in dump area and 1.00 hect in reclaimed area during 2019-2020	No hectares has been afforested during 2019-2020	Mine is not Working, for want of Statuary Clearances from 2012
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	3175 saplings proposed in backfilled & dump area for 2019-2020	No saplings have been planted in backfilled area & dump area.	Mine is not Working, for want of Statuary Clearances from 2012
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.27 hect in dump area and 1.00 hect in reclaimed area during 2019-2020	No hectares has been afforested during 2019-2020	Mine is not Working, for want of Statuary Clearances from 2012
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Simultaneously Back filling	Nil	Mine is not Working, for want of Statuary Clearances from 2012
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.	Mine is not Working, for want of Statuary Clearances from 2012
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.	Nil	Mine is not Working, for want of Statuary Clearances from 2012 and suspended on 2013 by IBM

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of Production was 350753 tons during 2019-2020.	Nil	Mine is not Working, for want of Statuary Clearances from 2012
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Process and Manual Picking of Ore from Intercalated Waste	Nil	Mine is not Working, for want of Statuary Clearances from 2012
7c	Different grade of mineral sorted out at mines.	Average Grade:- Al2O3 = +45.78% Sio2 = 3.86%	Nil	Mine is not Working, for want of Statuary Clearances from 2012
7d	Any beneficiation process at mines .	Cut Off Grade:- Al2O3 = +30% Sio2 = 5% Manually sizing and sorting are proposed	Nil	Mine is not Working, for want of Statuary Clearances from 2012
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of Production was 350753 tons during 2019-2020.	Nil	Mine is not Working, for want of Statuary Clearances from 2012 and suspended on 2013 by IBM

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal of removing topsoil separately and spreading over mined out area.	Nil	Mine is not Working, for want of Statuary Clearances from 2012
8b	Concurrent use or storage of topsoil	Concurrent use	Nil	Mine is not Working, for want of Statuary Clearances from 2012

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal of removing topsoil/ OB separately and spreading over mined out area.	Nil	Mine is not Working, for want of Statuary Clearances from 2012
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The OB and waste generated are to be proposed to backfilled simultaneously in the mined out areas	Nil	Mine is not Working, for want of Statuary Clearances from 2012
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Mine is not Working, for want of Statuary Clearances from 2012
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3175 saplings proposed in backfilled area for 2019-2020	Nil	Mine is not Working, for want of Statuary Clearances from 2012
8g	Survival rate	No such proposal in the approved document	Nil	Mine is not Working, for want of Statuary Clearances from 2012
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Nil	Mine is not Working, for want of Statuary Clearances from 2012
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Thin vegetation, agriculture is observed in lease area. Paddy, Maize, Jowar, Gondli are common crops.	Surrounding area beyond lease area is greenery. The area is hilly terrain.	Area is in forest and there is no agricultural land within the lease.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR Submitted up to = July 2020 AR Submitted up to = 2019-2020	Both Annual & Monthly returns are submitting in online system. Submitted within the time limits	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	There is no Appointment of Mining Engineer, Geologist.	It is advised to appoint Mining Engineer & Geologist.	Mine is not Working, for want of Statuary Clearances from 2012
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2020. Area exploited = 12.90 hect Reclaimed = 3.20 hect	Landuse Pattern is filled as per approved Mining Plan	Mine is not Working, for want of Statuary Clearances from 2012
9d	Scrutiny of Annual return on afforestation	No Saplings has planted inside the lease area	Nil	Mine is not Working, for want of Statuary Clearances from 2012
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	There is no Mineral Rejects Generation	Mine is not Working, for want of Statuary Clearances from 2012
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Due to Non-Working from 2012, the ROM stock is same from 2012.	Mine is not Working, for want of Statuary Clearances from 2012
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price & Production cost is Zero	Due to Non-Working, there is no ROM, hence Ex.Mine Price & Production cost is Zero.	Mine is not Working, for want of Statuary Clearances from 2012
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is not given	It is advised to fill Fixed Assets.	Mine is not Working, for want of Statuary Clearances from 2012
9k	Scrutiny of Annual return on mining machineries	Machineries detail not given	Due to Non-Working, there is no availability of machineries in field.	Mine is not Working, for want of Statuary Clearances from 2012

**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