By e-mail

GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES
OFFICE OF THE REGIONAL CONTROLLER OF MINES, JABALPUR

No. E 9941 MCDR-MPC0BXT/2/2024-JBP-IBM_RO_JBP Dt : 09/04/2024

Shri/M/s. THE DHARAMSI MORARJI CHEMICAL CO. LTD. ,
Plot No 105 M I D C Industrial Area, Roha, Raigad RAIGAD

Phadki Mohgaon Bauxite (49835301)

Sub : Approval of Review of Mining Plan in respect of Phadki Mohgaon Bauxite Mine over an area of 40.468 Hect; situated in Phadki Village, Paraswada Taluka, Balaghat District of Madhya Pradesh State.

References**:** 1) Draft Review of Mining plan received on MPAS, dated – 17/01/2024

2) This office scrutiny comments dated – 28/02/2024, 26/03/2024 & 07/04/2024

3) Final copy of Review of Mining Plan received on MPAS, dated – 08/04/2024

Sir,

In exercise of the powers conferred under Clause (b) of Sub-section (2) of Section 5 of Mines and Minerals (Development and Regulation) Act, 1957 as amended from time to time notified thereunder read with Government of India Order no. S.O.1857(E),dated 18/05/2016, I hereby **Approve** the above said Review of Mining Plan submitted under Rule 17(2) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016 as amended from time to time notified thereunder. This approval is subject to the following conditions: -

1. The Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
2. The proposals shown on the plates and /or given in the document is based on the lease map /sketch submitted by the lessee and is applicable from the date of approval.
3. It is clarified that the approval of aforesaid Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Act 1957, or the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
4. Indian Bureau of mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the lessee.
5. At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
6. If the approval conflicts with any other law or court order/direction under any statute, it shall be revoked immediately.
7. In case of the mining lease is declared as 'Lapsed' by the State Government, under provision of Section 4A(4) of MMDR Act 1957 (as amended up to 28th March, 2021) read with Rule 20 of the Mineral (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016 notified on 02/11/2021, at any course of time, the approval of Review of Mining Plan will stand revoked immediately without any further correspondence".
8. The Financial Assurance furnished by you is **Rs. 22,50,000/-** (Rs. Twenty Two Lakh Fifty Thousand Only) is **valid up to 31/03/2028** and next Financial Assurance shall be submitted on or before **31/03/2028**.
9. This approval is restricted in respect of proposals given in the document **for the period 2024-25 (from the date of approval) to 2027-28, with validity up to 31/03/2028**, subject to all other statutory clearances.
10. It shall be mandatory to project proponent, abstracting ground water to obtain **No objection certificate** from Central Ground Water Authority or the M.P. State Ground Water Authority.

Yours faithfully,

(Pukhraj Nenival)

Regional Controller of Mines

Indian Bureau of Mines, Jabalpur

Copy for information to-

1. The Director of Geology and Mining, Govt. of Madhya Pradesh, Khaniz Bhawan, 29A Arera Hills, Jail Road, Bhopal (MP).
2. The Controller of Mines (CZ), Indian Bureau of Mines, Nagpur.
3. The District Collector, Balaghat (M.P.)
4. Shri R. K. Choubey, 1254, Vivekanand Ward, Daya Nagar, Jabalpur (M.P.); engeomin_consultant@yahoo.com

(Pukhraj Nenival)

Regional Controller of Mines

Indian Bureau of Mines, Jabalpur

Phadki Mohgaon Bauxite (49835301)

Chapter 1 : General Information

1.1 : Lease Details

IBM Registration Number :	IBM/15580/2013
Lease Code :	49835301
Mine Code :	07MPR392001
Name of Lessee :	THE DHARAMSI MORARJI CHEMICAL CO. LTD.
Address of Lessee :	Plot No 105 M I D C Industrial Area, Roha, Raigad RAIGAD
Type of Lessee :	Private Entity Other Than Individual
Name of Mining Lease :	Phadki Mohgaon Bauxite
State :	MADHYA PRADESH
District :	BALAGHAT
Tehsil/ Taluk/ Mandal :	Paraswada
Village :	Fandki
Lease Area (Ha) :	40.468
Forest Area (Ha) :	40.4680
Name of Minerals :	BAUXITE
Name of associated minerals :	

Type :	Existing Lease
Period of the proposal (FY) from :	2023 - 24
Period of the proposal (FY) to :	2027 - 28
Type of working :	Opencast
Nature of Use :	Non Captive
Category of Mine :	Category A

1.1.1 : Initial/subsequent Lease grant details

Grant	From	To	Lease deed execution date	Lease registration date
Initial Grant	02/12/1978	01/12/1998	02/12/1978	02/12/1978
50 Years Extension	02/12/1998	01/12/2028	25/07/2015	25/07/2015

1.1.2 : Mining Plan Submission Criteria Details

Type of Document :	Review Of Mining Plan Under Rule 17(2) Of MCR, 2016
Reason/s For Modification :	Review Of Mining Plan Is Due And Same Has Been Submitted Herewith
Period for which modification is proposed :	2023-2024 to 2027-2028

1.2 : Land Ownership Details

View Land Ownership Details Excel	Land_Ownership_Details.xlsx

1.3 : Existing Lease

Date of Execution :	12/02/1978

1.3.1 : Approval of earlier Mining Plan & Its Subsequent Review in Chronological Order

S.N.	Letter Number	Date	Period		Type Of Approved Document	Remark
			From	To		
1	BGT/BX/MPLAN-1136 /NGP	09/06/2013	01/04/2013	31/03/2018	Mining Plan	RENEWAL
2	MP/BALAGHAT/BAUXITE RMP-77/17-18	06/03/2018	01/04/2018	31/03/2023	Review Of Mining Plan	23-24 IS LAPSE PERIOD

1.3.2 : Partial Surrenderd Area During Stages of Operations in Chronological Order

Not Applicable

1.3.3 : Transfer of Lease Area Subsequent to Grant

Not Applicable

1.3.4 : Statutory Compliances

1.3.4.1 : Environment Clearance

Applicable :	Yes
Letter No :	11/PS-MS/MPPCB/SEAC/TOR(160)/2015

Date :	20/01/2015
Validity :	01/12/2028
ROM Mineral :	199272.0000 (Tonnes)

1.3.4.2 : SPCB Approvals

Letter No :	11/PS-MS/MPPCB/SEAC/TOR(160)/2015
Approval of :	Consent To Operate
Date :	20/01/2015
Validity :	01/12/2028
ROM Mineral :	199272.0000 (Tonnes)

1.3.4.3 : Forest Clearance

Applicable :	Yes
Letter No :	KRAMANK/MA.CHL/3518
Date :	03/12/2012
Validity :	01/12/2028
Area (Ha) :	40.4680

1.3.4.4 : Land Acquisition Details

Total Area Acquired in hectare:	40.4680
Total Amount Paid (INR) :	0.0000

1.3.5 : Mine Location Details

Toposheet Number :	64B/8

1.3.5.1 : Location of Boundary Pillars

View Location of Boundary Pillars Excel	location_boundary_pillar.xlsx

1.3.6 : Owner/Nominated Owner Details

Name	PAN of owner / Nominated Owner	Address of owner/ Nominated Owner	Mobile / Contact Number	Email	Please attach Minutes of Board Resolution in case of Nominated Owner
Bimal Lalit Singh	AAFPG3673G	Plot No 105M I D C Industrial Area Roha RaigadRAIGAD	9424422820	akhileshmalvi@gmail.com	Nominees_and_resoulations.pdf

1.3.7 : Qualified Person Details as per M(OAHCEM)CR, 2016

S.N.	Prefix	Name	PAN of QP	Address	Mobile no.	Qualification	Exp in years as prescribed under the rule	Email
1	Mr	RAKESH CHOUBEY	ACYPC7355A	1254,VIVEKANAND WARD,DAYA NAGAR,JABALPUR	9425324774	MscGEOLOGY	30	engeomin_consultant@yahoo.com

Chapter 2A : Geology & Exploration

2A.1 : Geology

2A.1.1 : Topography

Terrain :	Plateaux
Highest Level (m) from MSL :	830.0000
Lowest Level (m) from MSL :	812.0000
Average Level (m) from MSL :	821.0000
Drainage Pattern :	Dendritic
Order of Stream :	Order 1
Min Dist of Stream from Lease Area(m) :	2000.0000

2A.1.2 : Details of Physiographic features and Infrastructures avaiable in and around the lease/ block area

Description	Location if existing Within the lease/block area	Distance from boundary periphery in kms, if existing outside the lease/block area. (within 5.00Kms)	Remark if any
River/Nallah/Reservoir	NIL	NALA AT 2.5 KM WEST	Nil
Public roads (Tar road, cart road)	NIL	2 KM SOUTH	Nil
Railway track	NIL	NIL	Nil
Human settlements	NIL	NIL	Nil
Archaeological monuments/ places of worships/public utilities etc	NIL	NIL	Nil
Wild life sanctuaries/ national parks	NIL	Kanha tiger reserve forest 30 km.North east of	Nil

		area	
Coastal Regulation Zone (CRZ)	NIL	NIL	Nil
Powertransmision lines/telephone lines	NIL	NIL	Nil
Firing range	NIL	NIL	Nil
Ordinance factory	NIL	NIL	Nil
grazing land/ burial ground or cremation ground	NIL	NIL	Nil
Any other specify	NIL	NIL	Nil

Particulars	Distance from lease boundary in kms
Near by village	4 KM. Mohgaon
Nearest Railway station	Balaghat 78km.
Nearest Port	Nagpur 170km
Distance of SH/NH from lease area	13 km.Balaghat -Baihar

2A.1.3 : Regional Geology

Regional Geology
SERIES FORMATION LITHOUNITS S Recent & Sub recent Red & brown sandy soil and light grey loamy soil Tertiary Ferruginous Laterite and Laterite (gravel) Laterite overlying tap A Cretaceous Euocene Deccan Trap lava Post Sauser intrusives Othogenessiess U Bichua Formation Dolomite, Calcite marble containing tremolite and actinolite Calc- silicate granulite with actinolite an tremolite and diopside S Occasional thin bands and lenses of quartz schist Junawani Quartz biotite schist containing garnet ,kyanite staturite with subordinate granulite.Biotite geneiess occasional garnet & Kyanite A Chorbaoli Fine grained quartz muscovite schist with garnet and kyanite ,micaceous quartzite and flagy quartzite quartz schist with R tourmaline Quartz schist ,conglomeratic and sheared Mansar Type Musocvite schist ,fine grained muscovite schist quartz muscovite S Gobawahi (Chilpi Facies) schist quartz muscovite schist with sillimanite in tabloids Quartz sericite muscovite schist with pink garnet Phyllite slaty E Phyllite and chlorite Phyllites with tiny garner and occasional otterlite (chlorite R Manganese Horizone Manganese ore braunite alternating with thinly intercalated bands of Jasper and cherty qu

2A.1.4 : Local Geology & Structure

2A.1.4.1 : Local Geological Set-up

The lease area is almost concealed by Soil. Few small detached outcrops of bauxite are seen in the northern part. The bauxite is seen fully exposed all along the northern escarpment which is about 610 m. in length. The exposed thickness of bauxite seen in the escarpment is about 20 m. The lateral and depth persistence of the bauxite all along the northern escarpment shows its pocket type of deposit. In the old workings and in trial pits, bauxite is seen below 0.3 m. to 1.0 m. thick soil cover. The thickness of soil increase towards south. The thickness of bauxite encountered in the pits ranges between 1.0 m. to 7 m. The pits are shallow in depth and as such complete thickness of bauxite is not exposed. The bauxite is purple. White, pinkish, yellowish and brown in colour, regular, compact and hard in nature, at places pisolitic. About 0.3 to 1 m. thick soil cover (av. 0.5 m.) is seen above bauxite. The bauxite of the area is lying over host rock i.e. basalt. The topographic plan of the lease area has been prepared on 1:2000 scale with 3 m. contour interval. The geology has been plotted on this base plan.There area several small scattered pits in which bauxite is seen exposed. Litholgs are given below: under 3(c). Details of exploration. The lithology of escarpment is as follows: 0.0 - 0.30 to 1.00 m.-Black to brown soil loose and friable (av. - 0.50 m.) 0.30 - 20 mt. (as seen in escarpment)-Bauxite, white purple, regular and compact in nature. Its hardness is about 2.5 to 3 and B.D. is 2.3.The attitude of the primary bedding (Southern Face) is as follows: StrikeDip North-SouthCannot be deciphered. The topographic plan of the lease area prepared on a scale of 1:1000 with contour interval of 3 m. depending upon the topography of the area has been taken as the base plan for preparation of geological plan. The details of exploration already carried out including evidences of mineral existence is shown on the geological plan.

2A.1.4.2 : Structure

Both primary (non-diastrophic) and secondary (diastrophic) structures are noted in rocks of this Group.The Bauxite is medium grained, having pisolitic structure and breaks with sub-conchoidal fractures. Bauxite, white purple, regular and compact in nature. Its hardness is about 2.5 to 3 and B.D. is 2.3. This is the most dominant formation exposed over the area. It is pink to reddish brown in colour. The individual pisolitics are white to red in colour and rich in Al2O3 content. The bauxite is hard, compact regular and pocket in nature. The occurrence of bauxite is dominantly observed in north and south in the quarry of the lease area.

2A.1.4.3 : Lithology, Petrographic & Mineralogical Description for Major, Associated & Indicator Minerals

Lithology is same as mention in local geology 0.0 - 0.30 to 1.00 m.-Black to brown soil loose and friable (av. - 0.50 m.) 0.30 - 20 mt. (as seen in escarpment)-Bauxite, white purple, regular and compact in nature. Its hardness is about 2.5 to 3 and B.D. is 2.3 .Mineralogical description for Major mineral only for bauxite there is no associated mineral and indicator minerals at present, after fully exploration of area picture will be clear m Major mineral Bauxite contains a relatively high aluminum content. It is the worlds main source of aluminum and gallium. Bauxite consists mostly of the aluminium minerals gibbsite (Al(OH)3),boehmite(-AlO(OH)) and diaspore(-AlO(OH)),mixed with the two iron oxides goethite (FeO(OH)) and haematite (Fe2O3), the aluminium clay mineral kaolinite(Al2Si2O5(OH)4) and small amount sofanatase(TiO2) and ilmenite(FeTiO3or FeO.TiO2). Bauxite appears dull in luster and is reddish-brown, white, or tan in color. Pisolitic and oolitic structures common Specific gravity: 2-2.55 Packed more or less densely within the homogeneous non-crystalline matrix. The matrix differs from pisolites in color, fracture, and even chemical composition. Commercial bauxite occurs in three forms: 1. pisolitic or oolites 2. Porous sponge ore 3. Amorphous or clay HOST ROCK: Bauxite deposit generally has some soil cover or laterite cover and is represented by the caps of the high plateau. These may be the denuded remains of original preexisting rocks which have been subjected to sub-aerial alteration over a very long time and this alteration in the tropical climate or alternating wet and dry seasons has resulted in the formation of laterite. The blanket deposits or bedded deposits of bauxite formed in situ and the original textural features of parent rock viz. Deccan trap, volcanic agglomerate, tuffs, etc.

2A.1.4.4 : Mode of Occurance & Controls of Mineralization

Mineralization of the lease area is denuded remains of original preexisting rocks. which have been subjected to sub-aerial alteration over a very long time and this alteration in the tropical climate or alternating wet and dry seasons has resulted the formation of laterite, bauxite and associated mineral. Bauxite of the area is brown, pinkish red, grey and earthy in colour and overlain by avg. 0.5m thick lateritic soil cover. At places bauxite occur as pocket, lenses and is embedded and aluminous laterite. The host rock of the mineralization is controls by upper Tertiary to quaternary formations (i.e.Bauxite ,Ferruginous lateritre and laterite overlying the trap) , Mineralized portion shows pisolitic and amorphous structure and dip and strike is not prominent feature of bauxite

2A.1.4.5 : Extent of Weathering/ Alteration

Bauxite and laterite is the denuded remains of an original country rock which has been subjected to sub-aerial alteration over a very long time and this alteration in the tropical climate or alternating wet and dry seasons such as in India give rise to bauxite mineralization

2A.1.4.6 : Nature/Form of Mineral	Lump
Specify If any other	It is pisolitic type in nature

2A.1.4.7 : Extent of Mineralization

The lease area is almost concealed by Soil. Few small detached outcrops of bauxite are seen in the northern part. The bauxite is seen fully exposed all along the northern escarpment which is about 610 m. in length. The exposed thickness of bauxite seen in the escarpment is about 20 m. The lateral and depth persistence of the bauxite all along the northern escarpment shows its pocket type of deposit. About 1 to 14 pits covering 0.5 to 7m. depth and escarpment of northern side up to 20m. depth deposition of bauxite on this basis extent about 610 x 100m. i.e 61000m2 area in G1(121) (probable) category up to depth 6m. and below this 6m. and in lateral direction of this area about 600 x200m i.e. 120000 m2 area 6 to 12 m. has been considered in G2(122) (probable) category(see surface geological plan plate no.5) in future proper exploration will clear the picture of extent of mineralisation through out the lease area.

2A.1.4.8 : Deposit Type (as per MEMC Rule)

Bedded Stratiform and tabular deposit of regular habit :

Strike / Trend of the Ore Body						
N	0	N	to	S	0	S

Amount of Dip of the Ore Body (degree)	Amount of Dip of the Ore Body (degree)
0	0

(from)	(to)

Dip Direction of the Ore Body			Plunge of Mineral Body (degree) (if any)	Direction of Plunge		
W	0	W	0	W	0	W

2A.2: Exploration

2A.2.1: Summary of The Previous Exploration (for fresh grant) / During Last Plan Period (for existing leases)

Name of The Agency
not done

2A.2.1.1: Geological Mapping

SI.No.	Year		Scale	Area Covered (Ha)
	From	To		
1	Nil	Nil	Nil	0.0000

2A.2.1.2: Airborne Geophysical Survey

SI.No.	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					Form	To	Form	To
1	Nil	0	0.00	0.0000	Nil	Nil	Nil	Nil

2A.2.1.3: Ground Geophysical Survey

SI.No.	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					Form	To	Form	To

1	Nil	0	0	0.0000	Nil	Nil	Nil	Nil

2A.2.1.4: Geochemical Survey

SI.No.	Type of Sample	No of Samples	Aanlysis report	Area Covered (Ha)
1	Nil	0	Nil	Nil

2A.2.1.5: Pitting

Number of Pits
0

SI.No.	Year		Pit ID	Length of Pit (m)	Width of Pit (m)	Depth of Pit (m)	Depth (from)	Depth(to)	Running mtr	Litho units exposed	Name of the radical	Av Grade(in %)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
	From	To											From	To	From	To
1	02/12/2012	Nil	Nil	0.00	0.00	0.00	0.00	0.00	3.00	Nil	Nil	0.00	Nil	Nil	Nil	Nil

2A.2.1.6: Trenching

Number of Trenches
0

2A.2.1.6.1: Spacing

Min (m)	Max (m)	Avg (m)
0.00	0.00	0.00

SI.No.	Year		Trench ID	Length of Trench (m)	Width of Trench (m)	Depth of Trench(m)	Depth (from)	Depth(to)	Running mtr	Litho units exposed	Name of the radical	Av. Grade	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
	From	To											From	To	From	To

1	Nil	Nil	0	0.0000	0.0000	0.0000	Nil	0.0000	0.0000	0	0	0.0000	Nil	Nil	Nil	Nil

2A.2.1.7 Exploratory Drilling(Core/non Core)

Sl.No.	Year		Exploration agency	Core holes		Non-core (RC/DTH)		Grand total		Attach log sheet of each borehole in csv/excel format
	From	To		Number of boreholes drilled	Total mtrs	Number of boreholes drilled	Total mtrs	Number of boreholes drilled	Total mtrs	
1	Nil	Nil	0	0	0.00	0	0.00	0	0.00	Nil

2A.2.1.8: Exploratory Mining

Sl.No.	Pit/Adit ID	Length in Mtr	Width in Mtr	Depth in mtrs	Volume (m^3)
1	0	0.00	0.00	0.00	0.00

2A.2.1.9: Sampling

Sl.No.	Type of sample	No of samples collected	Number of samples analyzed	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Remark if any
				From	To	From	To	
1	Nil	0	0	Nil	Nil	Nil	Nil	nil

2A.2.1.10: Chemical Analysis

Sl.No.	Sample ID	Minerals	Radical with garde in %	Name of Agency	Type of agency	Attachment
1	nil	nil	nil	nil	Nil	Nil

* Chemical analysis of core /non vore samples may be uploaded in CSV file which shall normally include Five files namely collar file, survey file and Geology log file, Assay file & RQD File.

2A.2.1.11: Petrology & Mineralogical Studies

SI.No.	Type of Sample	Number of Sample Drawn	Number of Sample Analyzed	Petrographic Study Report
1	Nil	0	0	Nil

2A.2.1.12: Beneficiation Studies

SI.No.	Type of Beneficiation	Number of Samples	Attach
1	Nil	0	Nil

2A.2.1.13: Bulk Density Study as per M(EMC) Rules, 2015 and SOP of CGPB

Method adopted for calculating bulk density of ore and waste
Container fill method :- as per IBM file no. A-285(47) /CGPB/2018-19/CMG) by c 5.4 Container fill method.

SI.No.	Nature of Ore/OB	Mineral	Number of samples	Bulk Density Established (t/m^3)
1	small boulder and power	Bauxite	1	2.30

2A.2.1.14: Area Covered under Exploration

Level of exploration	Area in Ha.		Total Area in Ha.
	Forest	Non Forest	
G-1	6.000000	0.000000	6.000000
G-2	12.000000	0.000000	12.000000
G-3	0.000000	0.000000	0.000000
G-4	0.000000	0.000000	0.000000
Area proved as Non-mineralized	0.000000	0.000000	0.000000
Area to be explored	22.468000	0.000000	22.460000
Total	40.468000	0.000000	40.468000

2A.2.2: Summary of The Previous Exploration (Before Last Plan Period)

Name of The Agency
not done

2A.2.2.1: Geological Mapping

SI.No.	Year		Scale	Area Covered (Ha)
	From	To		
1	02/12/1978	01/12/1998	1:1000	3.50

2A.2.2.2: Airborne Geophysical Survey

SI.No.	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					From	To	From	To
1	Nil	0.00	0.000000	0.00	Nil	Nil	Nil	Nil

2A.2.2.3: Ground Geophysical Survey

SI.No.	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					From	To	From	To
1	Nil	0	0	0.0000	Nil	Nil	Nil	Nil

2A.2.2.4: Geochemical Survey

SI.No.	Type of Sample	No of Samples
1	Nil	0

2A.2.2.5: Pitting

SI.No.	Pit ID	Length of Pit (m)	Width of Pit (m)	Depth of Pit (m)	Litho units exposed	Litho Unit From (m)	Litho Unit To (m)	Average Grade(%)	Running Metres (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
										Form	To	Form	To
1	Pit-1	18.00	10.00	3.00	soil and bauxite	0.00	3.00	53.80	3.00	22:04:09.75	22:04:10.43	80:26:52.26	80:26:52.44
2	Pit-2	4.00	4.00	2.00	soil and bauxite	0.00	2.00	53.80	2.00	22:04:09.36	22:04:09.45	80:26:52.26	80:26:52.44
3	Pit-3	6.00	2.00	1.60	soil and bauxite	0.00	1.60	53.80	1.60	22:04:08.33	22:04:08.50	80:26:52.63	80:26:52.79
4	Pit-4	30.00	14.00	2.00	soil and bauxite	0.00	2.00	53.80	2.00	22:04:08.46	22:04:09.04	80:26:55.21	80:26:56.20
5	Pit-5	6.00	4.00	2.30	soil and bauxite	0.00	2.30	53.80	2.30	22:04:06.57	22:04:06.80	80:26:49.75	80:26:50.02
6	Pit-6	4.00	4.00	2.30	soil and bauxite	0.00	2.30	53.80	2.30	22:04:06.78	22:04:07.04	80:26:52.17	80:26:52.41
7	Pit-7	3.00	3.00	4.00	soil and bauxite	0.00	4.00	39.30	4.00	22:04:06.41	22:04:06.55	80:26:54.56	80:26:54.70
8	Pit-8	6.00	3.00	2.00	soil and bauxite	0.00	2.00	39.30	2.00	22:04:04.29	22:04:04.49	80:26:50.24	80:26:50.42
9	Pit-9	3.00	3.00	1.00	soil and bauxite	0.00	1.00	39.30	1.00	22:04:03.77	22:04:03.93	80:26:54.41	80:26:54.60
10	Pit-10	2.00	1.50	2.50	soil and bauxite	0.00	2.50	39.30	2.50	22:04:00.83	22:04:01.00	80:26:50.09	80:26:50.18
11	Pit-11	2.00	2.00	2.00	soil and bauxite	0.00	2.00	53.80	2.00	22:04:05.62	22:04:05.78	80:26:55.99	80:26:56.15
12	Pit-12	5.00	5.00	4.50	soil and bauxite	0.00	4.50	53.80	4.50	22:04:06.85	22:04:06.98	80:26:50.49	80:26:50.60
13	Pit-13	5.00	5.00	5.00	soil and bauxite	0.00	5.00	53.80	5.00	22:04:07.60	22:04:07.72	80:26:52.60	80:26:52.79
14	Pit-14	5.00	5.00	0.50	soil and bauxite	0.00	0.50	39.30	0.50	22:04:10.47	22:04:10.63	80:27:00.69	80:27:00.88

2A.2.2.6: Trenching

Number of Trenches
0

Spacing

Min (m)	Max (m)	Avg (m)
0.00	0.00	0.00

Area Covered Under Trenching

Co-ordinates

Latitude

North	Nil
North	Nil
North	Nil
North	Nil

Longitude

East	Nil
East	Nil
East	Nil
East	Nil

SI.No.	Trench ID	Length of Trench (m)	Width of Trench (m)	Depth of Trench (m)	Litho Units Exposed	Average Grade	Running mtr	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
								From	To	From	To
1	0	0.0000	0.0000	0.0000	0	0	0.0000	Nil	Nil	Nil	Nil

2A.2.2.7: Exploratory Drilling

2A.2.2.7.1:Core/Non-core Drilling

Sl.No.	Year		Exploration agency	Core holes		Non-core (RC/DTH)		Grand total		Attach log sheet of each borehole in csv/excel format
	From	To		Number of boreholes drilled	Total mtrs	Number of boreholes drilled	Total mtrs	Total boreholes	Total mtrs	
1	Nil	Nil	0	0	0.00	0	0.00	0	0.00	Nil

2A.2.2.8: Exploratory Mining

Sl.No.	Pit / Adit ID	Volume (m^3)
1	0	0.00

2A.2.2.9: Sampling

Sl.No.	Type of sample	Number of Samples	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
				From	To	From	To
1	Pit	2	0.00	22:04:10.32	22:04:10.33	80:26:54.73	80:26:54.92
2	Rock Chip	2	0.00	22:04:06.07	22:04:06.10	80:26:54.45	80:26:54.55

2A.2.2.10: Chemical Analysis

Sl.No.	Sample ID	Minerals	Radical Analysis	Attachment
1	Sample point 1	BAUXITE	AL2O3	Sample_point_1.xlsx
2	Sample point 2	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_2.xlsx
3	Sample point 3	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_3.xlsx

4	Sample point 4	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_4.xlsx
5	Sample point 5	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_5.xlsx
6	Sample point 6	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_6.xlsx
7	Sample point 7	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_7.xlsx
8	S-1	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_8.xlsx
9	S-2	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_9.xlsx
10	S-3	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_10.xlsx
11	S-4	BAUXITE	AL2O3, FE203,SIO2,LOI,TIO2,UD	Sample_point_11.xlsx

2A.2.2.11:Petrology & Mineralogical Studies

SI.No.	Type of Sample	Number of Sample Drawn	Number of Sample Analyzed	Petrographic Study Report
1	Nil	0	0	Nil

2A.2.2.12: Beneficiation Test

SI.No.	Type of Beneficiation	Number of Samples	Attachment
1	Nil	0	Nil

2A.2.2.13: Bulk Density

SI.No.	Rock Type	Number of Samples	Minerals	Bulk Density Established (t/m^3)
1	nil	0	0	0.00

2A.2.2.14: Area Covered under Exploration

Level of exploration	Area in Ha.		Total Area in Ha.
	Forest	Non Forest	
G-1	6.0000	0.0000	6.0000

G-2	12.0000	0.0000	12.0000
G-3	0.0000	0.0000	0.0000
G-4	0.0000	0.0000	0.0000
Area proved as Non-mineralized	0.0000	0.0000	0.0000
Area to be explored	22.4680	0.0000	22.4680
Total	40.4680	0.0000	40.4680

SI.No.	Year		Area converted to G1 from G2, G3 & G4	% increase in G-1 Area	Remaining Area % in G2	Remaining Area % in G3	Remaining Area % in G4	Remaining Area in G2	Remaining Area in G3	Remaining Area in G4
	From	To								
1	Nil	Nil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Potentially Mineralised area (Ha)										22.47

2A.2.3 Ore Body Geometry & Grade

SI.No.	Name of the ore band	General Strike / Trend	Dip Of Mineral Body	Average Strike Length (m)	Average Width (m)	Chemical parameters				
						Average Depth (m)	Name of the radical	Min Grade (%)	Max Grade (%)	Avg Grade (%)
1	Bauxite	N-S	Nil	600.00	300.00	12.00	Al203	39.30	53.80	50.00

2A.2.4: Reserve / Resource Estimation Method

2A.2.4.1: Methodology

Resource / Reserve Estimation Method
Sectional Area Method
Methodology
METHODOLOGY OF RESERVE RE-ESTIMATION: CROSS SECTION METHOD: After preparation of Geological plan suitable no. of section at 100m. interval by taking 50m. influence both side the section and calculated the cross section area in vertical direction in depth for different category i.e. 121 and 122 as well as for reserves , pit slope stability and safety barrier etc. After calculating the area multiplied the area with influence to obtain the volume and for taking ROM tonnage multiplied with bulkdensity of ROM material. After getting ROM factor recovery factor

will apply for mining as 95% and remaining 5% under mining losses.

2A.2.4.2: Resource Calculation

SI.No.	Cross Section/Block	Section Area/ Block Area(sq mt)	Influence(m)	Depth in mtr	Volume (m^3)	Bulk Density (t/m^3)	Resource Quantity (t)	Level of Exploration	Type of Land	Name of the radical	Grade (%)	Method used for resource estimation
1	11	560	50.00	6.00	28000.00	2.30	64400.00000	G1	forest land	Al203	50.94&53.80	cross sectional
2	22	645	100.00	6.00	64500.00	2.30	148350.00000	G1	forest land	Al203	35.90 & 56.34	cross sectional
3	33	610	100.00	6.00	61000.00	2.30	140300.00000	G1	forest land	Al203	50.84 & 56.24	cross sectional
4	44	600	100.00	6.00	60000.00	2.30	138000.00000	G1	forest land	Al203	35.80 & 53.60	cross sectional
5	55	597	100.00	6.00	59700.00	2.30	137310.00000	G1	forest land	Al203	55.42	cross sectional
6	66	554	100.00	6.00	55400.00	2.30	127420.00000	G1	forest land	Al203	54.80	cross sectional
7	77	400	40.00	6.00	16000.00	2.30	36800.00000	G1	forest land	Al203	36.24	cross sectional
8	11	2750	50.00	12.00	137500.00	2.30	316250.00000	G2	forest land	Al203	50.94&53.80	cross sectional
9	22	2745	100.00	12.00	274500.00	2.30	631350.00000	G2	forest land	Al203	35.90 & 56.34	cross sectional
10	33	2580	100.00	12.00	258000.00	2.30	593400.00000	G2	forest land	Al203	50.84 & 56.24	cross sectional
11	44	2575	100.00	12.00	257500.00	2.30	592250.00000	G2	forest land	Al203	35.80 & 53.60	cross sectional
12	55	2260	100.00	12.00	226000.00	2.30	519800.00000	G2	forest land	Al203	55.42	cross sectional
13	66	1750	100.00	12.00	175000.00	2.30	402500.0000	G2	forest land	Al203	54.80	cross

							0					sectional
14	77	1800	40.00	12.00	72000.00	2.30	165600.00000	G2	forest land	Al203	36.24	cross sectional
Total					1745100.00		4013730.00000					

2A.2.4.3: Mineral Resource Estimate for Conversion to Mineral Reserve

The estimation of Reserves /resource by cross sectional method Resource estimation is inclusive of blocked in barrier zone, pit slope stability etc. After the estimation of Indicated mineral resource (332) as above, and exercise in the form of proper exploration work will be done to convert mineral Resource in Mineral reserve in G1 category.

2A.2.4.4: Threshold value & Cut off Parameters

"The Threshold Value : Al203 -30(min) and sio2 (total) -7% max. prescribed in CCOM Circular No. C-284/3/CMG/2017 dated 25.04.2018. Cutoff Grade: For Bauxite Al203 -30(min) and sio2 (total) -7% max is considered during estimation of resources/reserves in the Lease area. The avg. grade of the Al203 in this deposit is 50.%."

2A.2.4.5: Mining Factors or Assumptions

Mechanized method of mining has been adopted & manual sorting, sizing will be done. As per recovery test report recovery factor is considered to 95% and 5 % mining lossess considered which is negligible . .

2A.2.4.6: Metallurgical Factors or Assumptions

There is no metallurgical processing is required for Mineral , however a primary crushing,sizing ,sorting will be done at mine site for physical size..

2A.2.4.7: Cost & Revenue Factors

The Production cost of mineral per tonne is 800 Rs and average sale price of mineral is 1600Rs/t . Thus, the ex-mine cost of Mine based on profit per tonne has been estimated as Rs. 800 per tonne .Considering the production cost & market price of Bauxite, the Mining Project is expected to be a feasible

2A.2.4.8: Market Assessment

Lessee is a Non Captive user and the bauxite excavated from mines will be utilized in the refractory /metal/chemical industry etc.

2A.2.4.9: Other Modifying Factors

Mining operations in the lease hold is carried out under the various statutory provisions and Rules & Regulations. Relevant clearances are in place for continuing mining operation in the Mining Lease area. All factors are suitable for mining.

2A.2.4.10: Classification

Reserves of mineral are estimated as per UNFC in G2 Category under the 121 and 122 axis.. The entire Reserve and resource have been classified in to Probable mineral reserve(A) 121,122 and Prefeasibility Resource 221 & 222 category , prefeasibility mineral resource which can not be mined out due to slope stability and barrier zone from ML boundary and blocked under benches up to the conceptual stage.

2A.2.4.11: Calculation of blocked resources

SI.No.	Reserves blocked due to	Cross section/Block	Sectional area/ block area (in Sq mtr)	Influence (m)	Depth (m)	Volume (m^3)	Bulk Density (t/m^3)	Resource Quantity (t)	UNFC code	Type of Land	Name of the radical	Grade (%)	Method used for resource estimation
1	7.5 Meter Safety Barrier	11	48.00	50.00	6.00	2400.00	2.30	5520.00000	221	forest land	Al203	50.94 & 53.80	cross section
2	7.5 Meter Safety Barrier	22	48.00	100.00	6.00	4800.00	2.30	11040.00000	221	forest land	Al203	35.90& 56.34	cross section
3	7.5 Meter Safety Barrier	33	48.00	100.00	6.00	4800.00	2.30	11040.00000	221	forest land	Al203	50.84 & 56.24	cross section
4	7.5 Meter Safety Barrier	44	48.00	100.00	6.00	4800.00	2.30	11040.00000	221	forest land	Al203	35.80 & 53.60	cross section

5	7.5 Meter Safety Barrier	55	48.00	100.00	6.00	4800.00	2.30	11040.00000	221	forest land	Al203	55.42	cross section
6	7.5 Meter Safety Barrier	66	48.00	100.00	6.00	4800.00	2.30	11040.00000	221	forest land	Al203	54.80	cross section
7	7.5 Meter Safety Barrier	77	48.00	40.00	6.00	1920.00	2.30	4416.00000	221	forest land	Al203	36.24	cross section
8	7.5 Meter Safety Barrier	11	46.00	50.00	12.00	2300.00	2.30	5290.00000	222	forest land	Al203	50.94 & 53.80	cross section
9	7.5 Meter Safety Barrier	22	46.00	100.00	12.00	4600.00	2.30	10580.00000	222	forest land	Al203	35.90 & 56.34	cross section
10	7.5 Meter Safety Barrier	33	46.00	100.00	12.00	4600.00	2.30	10580.00000	222	forest land	Al203	50.84 & 56.24	cross section
11	7.5 Meter Safety Barrier	44	46.00	100.00	12.00	4600.00	2.30	10580.00000	222	forest land	Al203	35.80 & 53.60	cross section
12	7.5 Meter Safety Barrier	55	46.00	100.00	12.00	4600.00	2.30	10580.00000	222	forest land	Al203	55.42	cross section
13	7.5 Meter Safety Barrier	66	46.00	100.00	12.00	4600.00	2.30	10580.00000	222	forest land	Al203	54.80	cross section
14	7.5 Meter Safety Barrier	77	46.00	40.00	12.00	1840.00	2.30	4232.00000	222	forest land	Al203	36.24	cross section
15	Ultimate Pit Limit	11	42.00	50.00	6.00	2100.00	2.30	4830.00000	221	forest land	Al203	50.94&53.80	cross section
16	Ultimate Pit Limit	22	42.00	100.00	6.00	4200.00	2.30	9660.00000	221	forest land	Al203	35.90 & 56.34	cross section

17	Ultimate Pit Limit	33	42.00	100.00	6.00	4200.00	2.30	9660.00000	221	forest land	Al203	50.84 & 56.24	cross section
18	Ultimate Pit Limit	44	42.00	100.00	6.00	4200.00	2.30	9660.00000	221	forest land	Al203	35.80 & 53.60	cross section
19	Ultimate Pit Limit	55	42.00	100.00	6.00	4200.00	2.30	9660.00000	221	forest land	Al203	55.42	cross section
20	Ultimate Pit Limit	66	42.00	100.00	6.00	4200.00	2.30	9660.00000	221	forest land	Al203	54.80	cross section
21	Ultimate Pit Limit	77	42.00	40.00	6.00	1680.00	2.30	3864.00000	221	forest land	Al203	36.24	cross section
22	Ultimate Pit Limit	11	200.00	50.00	12.00	10000.00	2.30	23000.00000	222	forest land	Al203	50.94 &53.80	cross section
23	Ultimate Pit Limit	22	200.00	100.00	12.00	20000.00	2.30	46000.00000	222	forest land	Al203	35.90 & 56.34	cross section
24	Ultimate Pit Limit	33	200.00	100.00	12.00	20000.00	2.30	46000.00000	222	forest land	Al203	50.84 & 56.24	cross section
25	Ultimate Pit Limit	44	200.00	100.00	12.00	20000.00	2.30	46000.00000	222	forest land	Al203	35.80 & 53.60	cross section
26	Ultimate Pit Limit	55	200.00	100.00	12.00	20000.00	2.30	46000.00000	222	forest land	Al203	55.42	cross section
27	Ultimate Pit Limit	66	200.00	100.00	12.00	20000.00	2.30	46000.00000	222	forest land	Al203	54.80	cross section
28	Ultimate Pit Limit	77	200.00	40.00	12.00	8000.00	0.00	18400.00000	222	forest land	Al203	36.24	cross section
Total						198240.00		455952.00					

2A.2.4.12: Calulation of Reserves - I

SI.No.	Cross section/Block	Sectional area/ block area (in Sq mtr)	Influence (m)	Depth (m)	Volume (m^3)	Bulk Density (t/m^3)	Resource Quantity (t)	UNFC code	Type of Land	Name of the radical	Grade (%)	Method used for resource estimation

1	11	470	50.00	6.00	23500.00	2.30	54050.00	121	Forest land	Al2O3	50.94 & 53.80	Cross sectional
2	22	555	100.00	6.00	55500.00	2.30	127650.00	121	Forest land	Al203	35.90 & 56.34	Cross sectional
3	33	520	100.00	6.00	52000.00	2.30	119600.00	121	Forest land	Al203	50.84 & 56.24	Cross sectional
4	44	510	100.00	6.00	51000.00	2.30	117300.00	121	Forest land	Al203	35.80 & 53.60	Cross sectional
5	55	507	100.00	6.00	50700.00	2.30	116610.00	121	Forest land	Al203	55.42	Cross sectional
6	66	464	100.00	6.00	46400.00	2.30	106720.00	121	Forest land	Al203	54.80	Cross sectional
7	77	310	40.00	6.00	12400.00	2.30	28520.00	121	Forest land	Al203	36.24	Cross sectional
8	11	2504	50.00	12.00	125200.00	0.00	287960.00	122	Forest land	Al203	50.94 & 53.80	Cross sectional
9	22	2499	100.00	12.00	249900.00	2.30	574770.00	122	Forest land	Al203	35.90 & 56.34	Cross sectional
10	33	2334	100.00	12.00	233400.00	2.30	536820.00	122	Forest land	Al203	50.84 & 56.24	Cross sectional
11	44	2329	100.00	12.00	232900.00	2.30	535670.00	122	Forest land	Al203	35.80 & 53.60	Cross sectional
12	55	2014	100.00	12.00	201400.00	2.30	463220.00	122	Forest land	Al203	55.42	Cross sectional
13	66	1504	100.00	12.00	150400.00	2.30	345920.00	122	Forest land	Al203	54.80	Cross sectional
14	77	1554	40.00	12.00	62160.00	2.30	142968.00	122	Forest land	Al203	36.24	Cross sectional
Total					1546860.00		3557778.00					

2A.2.4.13: Calculation of Reserves -II

Mineral	BAUXITE

Reserves/ Resources estimated as on	31/12/2023

UNIT of estimation	tonnes

A. Mineral Reserve

Classification	Code	Quantity			Grade		Remark
		Forest	Non Forest	Total	Forest	Non Forest	
1. Proved Mineral Reserve (A)	111	Nil	Nil	0.00	Nil	Nil	Nil
2. Probable Mineral Reserve (A)	121	670450.00	0.00	670450.00	50%	0	Avg. grade 50% metal/refractory and chemical industry
3. Probable Mineral Reserve (A)	122	2887328.00	0.00	2887328.00	50%	0	Avg. grade 50% metal/refractory and chemical industry

B. Remaining Resources

Classification	Code	Quantity			Grade		Remark
		Forest	Non Forest	Total	Forest	Non Forest	
1. Feasibility Mineral Rcsourcc (B)	211	Nil	Nil	Nil	Nil	Nil	Nil
2. Prefeasibility Mineral Resource (B)	221	122130.00	0.00	122130.00	50.0%	Nil	Avg. grade 50% metal/refractory and chemical industry
3. Prefeasibility Mineral Resource (B)	222	333822.00	0.00	333822.00	50.0%	Nil	Avg. grade 50% metal/refractory and chemical industry
4. Measured Mineral Resource (B)	331	Nil	Nil	Nil	Nil	Nil	Nil
5. Indicated Mineral Resource (B)	332	Nil	Nil	Nil	Nil	Nil	Nil

6. Inferred Mineral Resource (B)	333	Nil	Nil	Nil	Nil	Nil	Nil
7. Reconnaissance Mineral Resource (B)	334	Nil	Nil	0.00	Nil	Nil	Nil

Total Mineral Resources (A+B) :	4013730.00

2A.2.4.13: Calculation of Reserves -III

No associate minerals are available!

2A.2.5: Future Exploration Proposal

2A.2.5.1: Geological Mapping

SI.N.	Year	Scale	Area Covered (Ha)
1	2023-2024	1:1000	40.47

2A.2.5.2: Ground Geophysical Survey

SI.No.	Year	Type of Survey	Spacing (m)	Total line (km)	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
						From	To	From	To
1	Nil	Nil	0	0	0.0000	Nil	Nil	Nil	Nil

2A.2.5.3: Pitting

Number of Pits
0

SI.No.	Year	Land Type	Pit ID	Length of Pit (m)	Width of Pit (m)	Depth of Pit (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
							From	To	From	To

1	Nil	Nil	0	0.00	0.00	0.00	Nil	Nil	Nil	Nil

2A.2.5.4: Trenching

Number of Trenches
0

2A.2.5.4.1: SPACING

Min (m)	Max (m)	Avg (m)
0.00	0.00	0.00

2A.2.5.4.2: Area Covered Under Trenching

Co-ordinates

Sl.No.	Year	Land Type	Trench ID	Length of Trench (m)	Width of Trench (m)	Depth of Trench(m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
							From	To	From	To
1	Nil	Nil	0	0.0000	0.0000	0.0000	Nil	Nil	Nil	Nil

2A.2.5.5: Exploratory Drilling

2A.2.5.5.1: Core Drilling & Non-Core Drilling

Sl.No.	Year	In Forest Area				In Non Forest Area				Total Borehole	Total Meter
		No. of Borehole	Total Mtr	Type Borehole	Grid Interval	No. of Borehole	Total Mtr	Type Borehole	Grid Interval		
1	2024-2025	41	1230.00	Core	100.00	0	0.00	Nil	Nil	41	1230.00

2A.2.5.6: Exploratory Mining

SI.No.	Year	Pit ID	Length in meter	Width in meter	Depth in meter	Volume (m^3)
1	Nil	0	0.00	0.00	0.00	0.00

2A.2.5.7: Sampling

SI.No.	Year	Type of Sample	Number of Samples Proposed	Area Covered(Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
					From	To	From	To
1	2024-2025	Drill Core	90	0.40	22:03:58.10	22:04:04.43	80:26:45.84	80:26:52.91

2A.2.5.8 Petrographic & Mineralgraphic Studies

SI.No.	Year	Type of Sample	Number of Samples Proposed
1	Nil	Nil	0

Chapter 2B : Geology & Exploration UG : NA

Chapter 3: Mineral Beneficiation / Processing

Name of The Ore/Mineral	Bauxite

3.1: Mineralogy of the ROM ore/ Mineral

SI.No	Valuable Mineral Name	Approx. Mineral %	Gangue Mineral/s name	Approx. Mineral Gangue %
1	Bauxite	100.0000	none	0.0000

3.2: Complete Chemical Analysis of the ROM Ore/Mineral

SI.No	Radical	Wt%
1	AL203	49.0800
2	SiO2	6.3800
3	LOI	23.1900
4	Fe2O3	14.8000
5	Tio2	1.2800

3.3: Crushing Section

3.3.1: Primary Crushing

Not Applicable

3.3.2: Secondary Crushing

Not Applicable

3.3.3: Tertiary Crushing

Not Applicable

3.4: Grinding Section

3.4.1: Dry Grinding

Not Applicable

3.4.2: Wet Grinding

Not Applicable

3.5: Dry Processing

3.5.1: Screening and Classification

Not Applicable

3.5.2: Other Operations

Not Applicable

3.5.3: Product Quality

Not Applicable

3.6: Wet Processing

3.6.1: Scrubbing / Washing

SI.No	Type of Scrubbers / washers	Stages, if applicable	Make	Capacity(tph)	Feed Size(mm)	Product Size (mm)	Product Quality, if available	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)
1	0	Nil	0	0.0000	0.0000	0.0000	0	Nil	0.0000	0.0000

3.6.2: Screening and Classification

SI.No	Type of screen / classifiers	Stages, if applicable	Make	Capacity(tph)	Aperture Size of Screen/Classifier (mm), if applicable	Feed Size(mm)	Product Size (mm)	Product Quality, if available	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)
1	0	Nil	0	0.0000	0.0000	0.0000	0.0000	0	Nil	Nil	Nil

3.6.3: Gravity Separation

SI.No	Type of separators (jig, table,	Stages, if applicable	Make	Capacity(tph)	Feed Size(mm)	Product (Conc) (tph)	Product-Mid (tph), if available	Product-Tail (tph)	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)

	spiral, etc.)										
1	Nil	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	Nil	Nil	Nil

3.6.4: Magnetic Separation

SI.No	Type of magnetic separators (magnetic intensity)	Stages, if applicable	Make	Capacity(tph)	Feed Size(mm)	Product-Mag (tph)	Product-Mid (tph), if available	Product non-Mag (tph)	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)
1	Nil	Nil	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Nil

3.6.5: Flotation

SI.No	Type of flotation equipment (froth/ column)	Stages (rougher/ cleaner, etc), if applicable	Make	Capacity(tph)	Feed Size(mm)	Product-Float (tph)	Product non-Float (tph)	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)
1	Nil	Nil	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6.6: Other Operations

SI.No	Type of equipment / operation	Stages, if applicable	Make	Capacity(tph)	Feed Size(mm)	Product-Conc (tph)	Product-Mid (tph), if available	Product-Tail (tph)	Water Requirement(l/h)	Fresh Water Requirement (l/h)	Recirculated Water (l/h)
1	Nil	Nil	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6.7: Product Quality (wet processing)

Products	Wt%	In Tonnes	Size (Range) mm	Complete chemical analysis

Concentrate	0.0000	0.0000	0	0
Sub-grade	0.0000	0.0000	0	0
Rejects	0.0000	0.0000	0	0

3.7: Overall Product Quality (Dry cum Wet Processing)

Products	Wt%	In Tonnes	Size (Range) mm	Complete chemical analysis
Concentrate	0.0000	0.0000	0	0
Sub-grade	0.0000	0.0000	0	0
Rejects	0.0000	0.0000	0	0

3.8: Disposal Method for tailing/ rejects

a) Explain the disposal method for tailing or reject from processing plant with detail chemical / mineral analysis of tailing	Nil
b) Size and capacity of tailing pond, toxic effect of such tailings, process adopted to neutralise its effect (if any)	Nil
c) Any other data (if available)	Nil

3.9: Overall water requirement of mining and mineral processing

Indicate quantity, source of supply, disposal of water and extent of recycling and chemical analysis of water	Water_balance_chart.pdf

3.10: Flow sheets and charts

Material balance chart of mineral processing plant(s) (each stage of process)	Nil
Attach flow sheet of beneficiation of plant(s)	Nil

Any other data (if applicable)	Nil

Chapter 4A: Mining Operations

4A.1.1: Existing Method of Mining	Mechanized

Choose one or more	HEMM without deephole drilling	HEMM without deephole drilling	HEMM without deephole drilling	HEMM without deephole drilling

4A.1.2: Proposed Method of Mining	Mechanized

Choose one or more	HEMM without deephole drilling	HEMM without deephole drilling	HEMM without deephole drilling	HEMM without deephole drilling

Reasons for Proposed Changes	No changes in existing and proposed mining

4A.2: Operational Parameters

4A.2.1: Inventory of Existing Pits & Dumps

4A.2.1.1: Pits

SI.No.	Pit ID	Pit Status	Area Covered by Pit(Ha)	Pit Dimensions(L*W*D)
1	P-1	Active	0.0180	18x10x3
2	P-2	Active	0.0016	4x4x2
3	P-3	Active	0.0012	6x2x1.6
4	P-4	Active	0.0420	30x14x2
5	P-5	Active	0.0024	6x4x2.3
6	P-6	Active	0.0016	4x4x2.3

7	P-7	Active	0.0009	3x3x4
8	P-8	Active	0.0018	6x3x2
9	P-9	Active	0.0009	3x3x1
10	P-10	Active	0.0003	2x1.5x2.5
11	P-11	Active	0.0004	2x2x2
12	P-12	Active	0.0025	5x5x4.5
13	P-13	Active	0.0025	5x5x5
14	P-14	Active	0.0025	5x5x0.5

4A.2.1.2: Dumps and Stacks

4A.2.1.2.1: Dump Details

SI.No.	Dump ID	Dump Status	Type of Dump	Total of Dump Quantity(t)	Area Covered by Dump(Ha)	Height(m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
							From	To	From	To
1	D-1	Active	Waste	84.00	0.01	0.50	22:04:08.35	22:04:08.62	80:26:52.79	80:26:53.24
2	D-2	Active	Waste	60.00	0.01	0.50	22:04:09.70	22:04:09.42	80:26:53.86	80:26:54.14
3	D-3	Active	Waste	60.00	0.01	0.50	22:04:08.05	22:04:09.06	80:26:54.09	80:26:54.32
4	D-4	Active	Waste	200.00	0.01	1.00	22:04:08.64	22:04:09.28	80:26:54.35	80:26:54.59
5	D-5	Active	Waste	24.00	0.00	0.50	22:04:09.42	22:04:09.50	80:26:52.71	80:26:52.92
6	D-6	Active	Waste	24.00	0.00	0.50	22:04:09.77	22:04:09.86	80:26:53.86	80:26:54.05
7	D-7	Active	Waste	24.00	0.00	0.50	22:04:06.96	22:04:07.11	80:26:54.65	80:26:54.86
8	D-8	Active	Waste	18.00	0.00	0.50	22:04:06.62	22:04:06.72	80:26:54.82	80:26:54.98

4A.2.1.2.2: Stack Details

SI.No.	Stack ID	Type of Stack	Total Stack of Quantity(t)	Area Covered by Stack(Ha)	Height(m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	

						From	To	From	To
1	0	Nil	0	0	0	Nil	Nil	Nil	Nil

4A.2.1.3: Details of stabilised dumps

SI.No.	Dump ID	Number of Terraces	Average Height of Terraces(m)	Lenght of Toe Wall(m)	Lenght of Garland Drain(m)	Area Stablized(Ha)	Method of Stablization
1	0	Nil	0.00	0.00	0.00	0.00	0

4A.2.2: Opencast Mining

4A.2.2.1: Bench Parameters

Pit ID	Year	Max Height of the Benches in Over Burden (m)	Min Width of the Benches in Over Burden (m)	Slope of the Bench in Over Burden (degree)	Max Height of the Benches in Mineral (m)	Minimum Width of the Benches in Mineral (m)	Slope of the Bench in Mineral (degree)	Overall Slope of Pit (degree)	Number of Benches in Top Soil	Number of Benches in Over Burden	Number of Benches in Mineral	Max Depth of Workings (m)	Depth of Water Table (mRL)	Max Slope Angle of Haul Roads (1xx in)
Lapse period	2023-2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0
PIT-1&4	2024-2025	0.50	3.00	45.00	6.00	6.00	45.00	40.00	1	0	2	12.50	800.00	1:16
PIT-3,6,13	2025-2026	0.50	3.00	45.00	6.00	6.00	45.00	40.00	1	0	2	12.50	800.00	1:16
PIT-5,12	2026-2027	0.50	3.00	45.00	6.00	6.00	45.00	40.00	1	0	2	12.50	800.00	1:16
PIT-5,12	2027-2028	0.50	3.00	45.00	6.00	6.00	45.00	40.00	1	0	2	12.50	800.00	1:16

4A.2.2.2: Yearwise Opencast Development - I Continue

SI.No.	Year	Pit ID	Bench	Direction	Bulk Density of Overb	Bulk Density of	Top Soil Volume (Length x	Over Burden Volume	Over Burden Quantity	ROM Volume (Length x	ROM Quantity (t)	Recovery	Mineral Reject (t)	Production Main (t)	Production Associated (t)	OB Ratio to Ore (m^3/ton)

					urden (BD1) (ton/m^3)	Mineral (BD2) (tonn/m^3)	Width x Height) (m^3)	(Length x Width x Height) (m^3)	(t)	Width x Height) (m^3)						
1	2023-2024	Lapse period	nil	nil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95000	0.00	0.00	0.00	Nil
2	2024-2025	Pit-1	b1(827-821) BAUXITE	w	2.00	2.30	0.00	0.00	0.00	31440.00	72312.00	0.95000	3615.60	68696.40	0.00	0.0000
3	2025-2026	Pit-1	b1(827.5-827)soil, B2&3827 to 815)	w	2.00	2.30	3608.00	3608.00	7216.00	74784.00	172003.20	0.95000	8600.16	163403.04	0.00	0.0210
4	2026-2027	Pit-1	b1(827.5-827)soil, B2&3827 to 815)	w	2.00	2.30	3960.00	3960.00	7920.00	82080.00	188784.00	0.95000	9439.20	179344.80	0.00	0.0210
5	2027-2028	Pit-1	b1(830.5-830)soil, B2&830to 818)	w	2.00	2.30	4400.00	4400.00	8800.00	91200.00	209760.00	0.95000	10488.00	199272.00	0.00	0.0210
Total									23936.00		642859.20		32142.96	610716.24	0.00	

4A.2.2.2 Yearwise Opencast Development - I End

SI.No.	Year	Pit ID	Total Topsoil Volume (m^3)	Total Over Burden Volume (m^3)	Total Over Burden Quantity (t)	Total ROM Volume (m^3)	Total ROM Quantity (t)
1	2023-2024	Lapse period	0.00	0.00	0.00	0.00	0.00
2	2024-2025	Pit-1	0.00	0.00	0.00	31440.00	72312.00
3	2025-2026	Pit-1	3608.00	3608.00	7216.00	74784.00	172003.00
4	2025-2026	Pit-1	3960.00	3960.00	7920.00	82080.00	188784.00
5	2027-2028	Pit-1	4400.00	4400.00	8800.00	91200.00	209760.00

	Total	11968.00	11968.00	23936.00	279504.00	642859.00

4A.2.2.3: Transportation & Hauling Equipment

SI.No.	Type	Make	Capacity (m^3)	No. of Equipments
1	Tipper	tata	6.00	10

4A.3: Material Handling Summary

4A.3.1: Studies Undertaken

Title	Study Undertaken	Attachment (only pdf allowed)
Blast Vibration Study Report	No	Nil
Slope Stability Study Report	No	Nil
Recovery Study Report	Yes	RECOVERY_OF_BAUXITE_PHADKI_MOEHGAON_MINES.pdf
Hydrological Study Report	No	Nil
Mineral Beneficiation Study Report	No	Nil
Subsidence Study Report	No	Nil
Geotechical Study Report	No	Nil
Any Other Study Report	No	Nil
Bulk Density Study Report	Yes	B_D_REPORTS.pdf

4A.3.2: Insitu Mining

SI.No.	Year	Waste Quantity(t)	ROM Quantity(t)	Total Handling (t)	ROM Quantity Saleable Mineral (t)	ROM Quantity Mineral Reject (t)	OB Ratio to Ore (Waste Quantity / ROM Quantity)	Grade Range (%)
1	2023-2024	0.00	0.00	0.00	0.00	0.00	0.00	0

2	2024-2025	0.00	72312.00	179219.00	68696.40	3615.60	0.00	AL203 :55.42
3	2025-2026	7216.00	172003.20	196704.00	163403.04	8600.16	0.04	Al2O3: 36 TO 54
4	2026-2027	7920.00	188784.00	218560.00	179344.80	9439.20	0.04	Al2O3: 51 TO 56
5	2027-2028	8800.00	209760.00	218560.00	199272.00	10488.00	0.04	Al2O3: 36 TO 56
	Total	23936.00	642859.20	813043.00	610716.24	32142.96		

4A.3.3: Dump workings

SI.No.	Year	Dump ID	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Area (m2)	Avg Height of Dump (m)	Volume (m^3)	Total Dump Quantity (t)	Proposed Dump Handling Quantity (t) (A)	Proposed Recovery of Saleable Mineral (t)(B)	Proposed Waste Quantity (t) (A-B)	Grade Range (%)	Justification
			From	To	From	To									
1	Nil	0	Nil	Nil	Nil	Nil	0.00	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

4A.3.4: Calculation Summary

Year	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	Total
(A) Total ROM quantity (t)	0.00	72312.00	172003.00	188784.00	209760.00	642859.00
(B) Saleable ore from ROM (t)	0.00	68696.40	163403.04	179344.80	199272.00	610716.24
(C) Proposed Dump Handling Quantity (t)	0.00	0.00	0.00	0.00	0.00	0.00
(D) Saleable Ore recovered from dump workings (t)	0.00	0.00	0.00	0.00	0.00	0.00
(E) Total Saleable Ore (t)(=B+D)	0.00	68696.40	163403.04	179344.80	199272.00	610716.24

(F) Total Quantity Handled (t)(=A+C)	0.00	72312.00	172003.00	188784.00	209760.00	642859.00

4A.4: Machine Calculation

4A.4.1: Machine Requirement Summary

Number of Average Working Days in One Year (A)	300
Number of Shifts per Day (B)	1
Material Handling Required per Day (t) ((D)=Largest of (Q1,Q5)/(A))	728.53
Material to be Handled per Shift (t) ((E)=(D)/(B))	728
Handling Required per Hour (t) ((F)=(E)/8 hours)	99.73
Effective Shift Time	7 hrs 30 mins

4A.4.2: Shovel / Excavator Requirement

Effective Shift Time	7 hrs	30 mins

SI.No.	Type	Bucket Capacity (m^3)(A)	Bucket Fill Factor (B)	Swell Factor (C)	Tonnage Factor (t/m^3) (D)	Machine Utilization Factor (%) (U)	Efficiency (%) (E)	Cycle time (sec) (F)	(G) TPH =TPH (G) =((3600 x A x B x C x D x E x U) / F)	Total Hours (H) =Number of working days x Number of shifts/day x Effective shift hours	Yearly handling by one Excavator (t) (I)=(G x H)	Maximum handling of the material by this machine during the block period (t) (J)	Number of excavator machines required (K) = (J / I)	Standby excavator (L)
1	hydraulic(tata mak)	1.10	0.9	0.8	2.30	0.80	0.80	30	139.90	2100	293790.00	218560.00	0.74	1

4A.4.3: Dumper Requirement

Effective Shift Time	7 hrs	30 mins

SI.No.	Total Hours=Number of working days (W)x Number of shifts/day x Effective shift hours (Machine Requirement Summary) (A)	Capacity of Dumpers (t) (B)	Speed of the dumper (KMPH) (i)	Lead Distance (KM) (ii)	Time taken to cover distance in minutes(iii) =(ii/i) x 60	Queuing, Loading Time at Shovel (min) (iv)	Queuing, Unloading Time during unloading (min) (v)	Total Time to complete one trip(vi) = (iii + iv + v)	No. of Trips / hr = (60 / vi)	Total transportation per hour =(B X vii)	Yearly handling by one dumper (ix) = A x TPH	Maximum handling of the material by this machine during the block period (t) (x)	Number of dumpers will be (xi) =(x / ix)	Plus Standby dumper (xii)
1	2100	15.00	20.00	10.00	30.00	2.00	1.00	33.00	1	27	57330.00	218560.00	3	2

4A.4.4: Drill Machine Requirement

Effective Shift Time	7 hrs	30 mins

SI.No.	Type of Drill	Depth of Hole(including Sub-grade Drilling (m)	Spacing (m)	Burden (m)	Bulk Density of Waste (t/m^3)	Bulk Density of Mineral (t/m^3)	Yield per Hole (t)	Yield per Meter (t/m) = Yield per Hole (t)/Depth of Hole(including Sub-grade Drilling (m))	Annual Target Known (t)	Drilling Requirement per Day (m) = (Annual Target Known (t) / Yield per Meter (t/m))/Number of Average	Drilling Requirement per Shift(m)	Rate of Drilling per Hours (m/hr) = Drilling Requirement per Shift(m)/Effective Shift Time	Required No. of drills (m/c) = Required rate of drilling in meters per hr./ Actual rate of drilling in meters per hr of the	Stand by Drill

										Working Days in One Year (A)			machine deployed	
1	Nil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0

4A.4.5: Machine Deployment Details

4A.4.5.1: Excavator & Loading Equipment

SI.No.	Type	Make	Capacity (m^3)	No. of Equipments
1	Disel	Tata	1.10	2

4A.4.5.2: Dozers Details

SI.No.	Type	Make	Capacity (hp)	No. of Equipments
1	Disel	Tata	140.00	1

4A.4.5.3: Drilling Details

SI.No.	Type	Make	Capacity (t)	Diameter of Hole(mm)
1	0	Not Proposed	0.00	Nil

4A.5 Blasting Requirement

4A.5.1: Blasting & Explosive Requirement in Waste/Development

SI.No.	Drill Pattern / Spacing of Holes (m)	Burden of Holes (m)	Number of Rows / Rings	Yield per Holes in Waste (m^3)	Frequency of Blasting in a Week	Maximum Number of Holes Blasted in a Round	Charge per Hole (kg)	Charge per Round (kg)	Explosive Requirement Per Month in Development	Powder Factor in Development / Waste (t/kg)	Depth Of Hole

									(kg)		
1	0	0	0	0	0	0	0	0	Nil	Nil	Nil

4A.5.2: Blasting & Explosive Requirement in Mineral / Ore

Type of Explosive	Type of Explosives used / to be Used
NIL	Aluminised Slurry Explosives (Large Diameter)

SI.No.	Total ROM proposed to be handled in CUM/annum	Total ROM proposed to be handled in CUM/day	Spacing of Holes (m)	Burden of Holes (m)	Number of Rows	Yield per Holes in ROM Zone (m^3)	Frequency of Blasting in a Week	Maximum Number of Holes Blasted in a Round	No of Holes Required to be Blasted per Round	Charge per Hole (kg)	Charge per Round (kg)	Explosive Requirement Per Month for ROM Zone Blasting (kg)	Powder Factor in Ore (t/kg)	Pop Shooting (no of Boulders)	Plaster Shooting (no of Boulders)	Use of Rockbreaker	Capacity	Secondary Blasting Requirements	Depth Of Hole
1	0	0	0	0	Nil	0	0	0	0	0	0	0	0	0	0	Nil	0	0	0

4A.6: Man Power Deployment

4A.6.1: Managerial

SI.No.	Particular	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	1st Class	0	0	0	1	1
2	Mining Engineer	0	0	0	1	1
3	Geologist	0	0	0	1	1
4	other	0	0	0	1	1

4A.6.2: Supervisory

SI.No.	Particular	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	Mine-mate	0	0	0	1	1
2	Foreman	0	0	0	1	1

4A.6.3: Skilled Workers / Operators

SI.No.	Particular	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	Dumper Operator	0	0	0	5	5
2	Technician	0	0	0	2	2
3	Pump Operator	0	0	0	2	2

4A.6.4: Semi-skilled Workers

SI.No.	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	0	0	0	10	10

4A.6.5: Unskilled Workers

SI.No.	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	0	0	0	0	10

4A.6.6: Others Specify

SI.No.	Particular	Number of Persons in	Number of Persons in	Number of Persons in	Number of Persons in	Total No. of Persons per

		Shift 1	Shift 2	Shift 3	General Shift	day
1	Nil	0	0	0	0	0

4A.6.7: No of Persons Engaged Per Day

Sl.No.	Number of Persons in Shift 1	Number of Persons in Shift 2	Number of Persons in Shift 3	Number of Persons in General Shift	Total No. of Persons per day
1	Nil	Nil	Nil	35	35

No of Shifts per Day ((A) = Machine Requirement Summary (B))	1
Average Daily Employment per Shift ((B) = (Total Number of Person per Day) / (A))	35
Material to be Handled per Shift ((C) = Machine Requirement Summary (E))	728

4A.6.8: Supervision

Sl.No.	Particular	Qualification	Requirement / Proposed	In Position / Existing Strength	(Requirement / Proposed) - (In Position / Existing Strength) = (-) Shortage / (+) Excess	Remarks
1	Geologist	Msc Geology	1	0	1	0
2	Mine Foreman	Holding Forman Certificate	1	0	1	0
3	Mines Manager	B.e.and Holding Certificate	1	0	1	0
4	Mining Engineer	B.e	1	0	1	0
5	Mining Mate	Holding Certificate	1	0	1	0

4A.7: Waste Management

4A.7.1: Existing Dump

SI.No.	Year	Dump Id	Type of Dump	Proposed Area (ha)	Height (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Total Dump Quantity (m^3)	Existing Dump Location
						From	To	From	To		
1	2024-2025	D1	Waste	0.01	0.50	22:04:08.35	22:04:08.62	80:26:52.79	80:26:53.24	42.00	North central part
2	2024-2025	D2	Waste	0.01	0.50	22:04:09.70	22:04:09.42	80:26:53.86	80:26:54.14	30.00	North central part
3	2024-2025	D3	Waste	0.01	0.50	22:04:08.05	22:04:09.06	80:26:54.09	80:26:54.32	30.00	North central part
4	2024-2025	D4	Waste	0.01	1.00	22:04:08.64	22:04:09.28	80:26:54.35	80:26:54.59	100.00	North central part
5	2024-2025	D5	Waste	0.00	0.50	22:04:09.42	22:04:09.50	80:26:52.71	80:26:52.92	12.00	North central part
6	2024-2025	D6	Waste	0.00	0.50	22:04:09.77	22:04:09.86	80:26:53.86	80:26:54.05	12.00	North central part
7	2024-2025	D7	Waste	0.00	0.50	22:04:06.96	22:04:07.11	80:26:54.65	80:26:54.86	12.00	North central part
8	2024-2025	D8	Waste	0.00	0.50	22:04:06.62	22:04:06.72	80:26:54.82	80:26:54.98	9.00	North central part

4A.7.2: New Dump

SI.No.	Year	Dump Id	Type of Dump	Proposed Area (ha)	Height (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Total Dump Quantity (m^3)	New Dump Location
						From	To	From	To		
1	2023-2024	0	Nil	0.00	0.00	Nil	Nil	Nil	Nil	Nil	Nil
2	2024-2025	sd	Waste	0.20	2.00	22:03:58.96	22:04:00.21	80:26:54.30	80:26:56.96	3608.00	Central part in unexplored area
3	2025-2026	sd	Waste	0.20	2.00	22:03:58.96	22:04:00.21	80:26:54.30	80:26:56.96	3960.00	Central part in unexplored area
4	2026-2027	sd	Waste	0.20	3.00	22:03:58.96	22:04:00.21	80:26:54.30	80:26:56.96	4400.00	Central part in

											unexplored area
5	2027-2028	sd	Waste	0.20	3.00	22:03:58.96	22:04:00.21	80:26:54.30	80:26:56.96	4400.00	Central part in unexplored area

4A.7.3: Existing Stack

SI.No.	Year	Stack ID	Type of Stack	Proposed Area (ha)	Height (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Total Stack Quantity (m^3)	Existing Stack Location
						From	To	From	To		
1	Nil	0	Nil	0.00	0.00	Nil	Nil	Nil	Nil	0.00	0

4A.7.4: New Stack

SI.No.	Year	Stack ID	Type of Stack	Proposed Area (ha)	Height (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Total Stack Quantity (m^3)	New Stack Location
						From	To	From	To		
1	2023-2024	Tempory stock yard	Stack for mineral	0.10	5.00	22:03:58.28	22:03:59.47	80:26:52.33	80:26:53.81	5000.00	central part

4A.8: Mineral Waste Handling To Utilize As Minor Mineral

SI.No.	Year	Dump ID	Type of Dump	Proposed Area (ha)	Quantity Handled (t)	Quantity Recovered (t)	Name Of Minor Mineral	Alternative Waste Utilization (m^3)
1	Nil	0	Nil	0.00	0.00	0.00	Nil	Nil

4A.9: Use of Minerals

SI.No.	Proposed Use Of Mineral	Name Of Mineral	Relevant Use Of Mineral	Physical Specifications	Chemical Specifications
1	Direct Selling	BAUXITE	Metal, refractory and chemical industry	Pisolitic and oolitic structure common Specific gravity: 2-2.35 Packed more or less densely within homogeneous	Al203 35.90 to 56.34

				non-crystalline matrix. The matrix differs from pisolites in colour, fracture and even chemical composition.	

* Choose among these:

1. Captive use in own industry

2. Direct Selling

3. Selling Post-Beneficiation /Up-gradation

*Select more than one, if applicable

Chapter 4 B : Mining Operations UG : NA

Chapter 5: Sustainable Mining

5.1: Sustainable Mining and SDF Implementations in Compliance of Rule 35 of MCDR'2017

Lessee will monitor its mining and allied activities as per the notified template of Star Rating and will be submit online its self assessment report before the 1st day of July every year for the previous financial year and all the related information will be provided in relevant para. Due to clearance from forest department was delay and as per this no mining and allied activity has been carried out in past mining plan period.

(Total 200 characters)

Compliance of Vishakha Committee Guidelines for prevention of women harassment at workplace	Implemented

5.2: CSR INITIATIVES

5.2.1: 2023-2024

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Cumulative Work done / Measures Taken
5.2.1.1: Area to be Developed for Recreation	
Area (Ha)	Area (Ha)
0.00	0.24

5.2.1.2: Area for Water Storage & Recharge Facility	
Area (Ha)	Area (Ha)
0.00	0.00

5.2.1.3: Efforts Made towards Housing for Local Communities	
Number of Houses	Number of Houses
0	5

5.2.1.4: Efforts Made towards Providing Transport to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
0	200

5.2.1.5: Efforts Made towards Providing Healthcare to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
0	100

5.2.1.6: Efforts Made towards Providing Hygiene & Sanitation to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
0	25

5.2.1.7: Efforts Made towards Skill Development Programs to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
0	100

5.2.1.8: Efforts Made to Promote Education & Knowledge Based Initiatives	
Number of Beneficiaries	Number of Beneficiaries
0	50

5.2.1.9: Communication Facilities Provided to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
0	20

5.2.1.10: Any Other Steps Taken for Improving the Socio-Economic Standard of Local Communities	
Number of Beneficiaries	Number of Beneficiaries
0	0

5.2.1.11: Adoption of ODF		
Number of Toilets Built inside the Lease Area	Number of Toilets Built outside the Lease Area:	Number of Beneficiaries
0	0	0

5.2.1.12: Awareness Program among Mine Workers for Swatchata	
Number of Swatchata Programmes Proposed	Number of Swatchata Programmes Held
0	2

5.2.1.13: Efforts for green energy	
Total energy consumption (KWh)	Green energy consumption (% of total)
0.00	0.00

5.2.1.14: Water & recycled use	
Total water consumption (KLD)	Water recycled (% of total)
5.00	0.00

5.2.2: 2024-2025

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Cumulative Work done / Measures Taken
5.2.2.1: Area to be Developed for Recreation	
Area (Ha)	Area (Ha)
0.24	0.24

5.2.2.2: Area for Water Storage & Recharge Facility	
Area (Ha)	Area (Ha)
0.00	0.00

5.2.2.3: Efforts Made towards Housing for Local Communities	
Number of Houses	Number of Houses
5	6

5.2.2.4: Efforts Made towards Providing Transport to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
200	210

5.2.2.5: Efforts Made towards Providing Healthcare to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
100	110

5.2.2.6: Efforts Made towards Providing Hygiene & Sanitation to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
25	30

5.2.2.7: Efforts Made towards Skill Development Programs to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
100	110

5.2.2.8: Efforts Made to Promote Education & Knowledge Based Initiatives	
Number of Beneficiaries	Number of Beneficiaries
50	60

5.2.2.9: Communication Facilities Provided to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
20	30

5.2.2.10: Any Other Steps Taken for Improving the Socio-Economic Standard of Local Communities	
Number of Beneficiaries	Number of Beneficiaries
0	5

5.2.2.11: Adoption of ODF		
Number of Toilets Built inside the Lease Area	Number of Toilets Built outside the Lease Area:	Number of Beneficiaries
0	0	0

5.2.2.12: Awareness Program among Mine Workers for Swatchata	
Number of Swatchata Programmes Proposed	Number of Swatchata Programmes Held
2	2

5.2.2.13: Efforts for green energy	
Total energy consumption (KWh)	Green energy consumption (% of total)
0.00	0.00

5.2.2.14: Water & recycled use	
Total water consumption (KLD)	Water recycled (% of total)
10.00	0.00

5.2.3: 2025-2026

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Cumulative Work done / Measures Taken
5.2.3.1: Area to be Developed for Recreation	
Area (Ha)	Area (Ha)
0.24	0.24

5.2.3.2: Area for Water Storage & Recharge Facility	
Area (Ha)	Area (Ha)
0.00	0.00

5.2.3.3: Efforts Made towards Housing for Local Communities	
Number of Houses	Number of Houses
6	6

5.2.3.4: Efforts Made towards Providing Transport to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
210	215

5.2.3.5: Efforts Made towards Providing Healthcare to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
110	115

5.2.3.6: Efforts Made towards Providing Hygiene & Sanitation to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
30	35

5.2.3.7: Efforts Made towards Skill Development Programs to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
110	115

5.2.3.8: Efforts Made to Promote Education & Knowledge Based Initiatives	
Number of Beneficiaries	Number of Beneficiaries
60	65

5.2.3.9: Communication Facilities Provided to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
30	35

5.2.3.10: Any Other Steps Taken for Improving the Socio-Economic Standard of Local Communities	
Number of Beneficiaries	Number of Beneficiaries
5	6

5.2.3.11: Adoption of ODF		
Number of Toilets Built inside the Lease Area	Number of Toilets Built outside the Lease Area:	Number of Beneficiaries
0	0	0

5.2.3.12: Awareness Program among Mine Workers for Swatchata	
Number of Swatchata Programmes Proposed	Number of Swatchata Programmes Held
2	3

5.2.3.13: Efforts for green energy	
Total energy consumption (KWh)	Green energy consumption (% of total)
0.00	0.00

5.2.3.14: Water & recycled use	
Total water consumption (KLD)	Water recycled (% of total)
15.00	0.00

5.2.4: 2026-2027

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Cumulative Work done / Measures Taken
5.2.4.1: Area to be Developed for Recreation	
Area (Ha)	Area (Ha)
0.24	0.24

5.2.4.2: Area for Water Storage & Recharge Facility	
Area (Ha)	Area (Ha)
0.00	0.00

5.2.4.3: Efforts Made towards Housing for Local Communities	
Number of Houses	Number of Houses
6	8

5.2.4.4: Efforts Made towards Providing Transport to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
215	220

5.2.4.5: Efforts Made towards Providing Healthcare to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
115	120

5.2.4.6: Efforts Made towards Providing Hygiene & Sanitation to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
35	40

5.2.4.7: Efforts Made towards Skill Development Programs to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
115	120

5.2.4.8: Efforts Made to Promote Education & Knowledge Based Initiatives	
Number of Beneficiaries	Number of Beneficiaries
65	70

5.2.4.9: Communication Facilities Provided to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
35	40

5.2.4.10: Any Other Steps Taken for Improving the Socio-Economic Standard of Local Communities	
Number of Beneficiaries	Number of Beneficiaries
6	7

5.2.4.11: Adoption of ODF		
Number of Toilets Built inside the Lease Area	Number of Toilets Built outside the Lease Area:	Number of Beneficiaries
0	0	0

5.2.4.12: Awareness Program among Mine Workers for Swatchata	
Number of Swatchata Programmes Proposed	Number of Swatchata Programmes Held
3	4

5.2.4.13: Efforts for green energy	
Total energy consumption (KWh)	Green energy consumption (% of total)
0.00	0.00

5.2.4.14: Water & recycled use	
Total water consumption (KLD)	Water recycled (% of total)
20.00	0.00

5.2.5: 2027-2028

Details of Work Proposed during the Year / Measures Planned for the Affected Segment	Cumulative Work done / Measures Taken
5.2.5.1: Area to be Developed for Recreation	
Area (Ha)	Area (Ha)
0.24	0.24

5.2.5.2: Area for Water Storage & Recharge Facility	
Area (Ha)	Area (Ha)
0.00	0.00

5.2.5.3: Efforts Made towards Housing for Local Communities	
Number of Houses	Number of Houses
8	10

5.2.5.4: Efforts Made towards Providing Transport to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
220	222

5.2.5.5: Efforts Made towards Providing Healthcare to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
120	125

5.2.5.6: Efforts Made towards Providing Hygiene & Sanitation to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
40	45

5.2.5.7: Efforts Made towards Skill Development Programs to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
120	125

5.2.5.8: Efforts Made to Promote Education & Knowledge Based Initiatives	
Number of Beneficiaries	Number of Beneficiaries
70	75

5.2.5.9: Communication Facilities Provided to Local Communities	
Number of Beneficiaries	Number of Beneficiaries
40	45

5.2.5.10: Any Other Steps Taken for Improving the Socio-Economic Standard of Local Communities	
Number of Beneficiaries	Number of Beneficiaries
7	10

5.2.5.11: Adoption of ODF		
Number of Toilets Built inside the Lease Area	Number of Toilets Built outside the Lease Area:	Number of Beneficiaries
1	2	20

5.2.5.12: Awareness Program among Mine Workers for Swatchata	
Number of Swatchata Programmes Proposed	Number of Swatchata Programmes Held
4	5

5.2.5.13: Efforts for green energy	
Total energy consumption (KWh)	Green energy consumption (% of total)
0.00	0.00

5.2.5.14: Water & recycled use	
Total water consumption (KLD)	Water recycled (% of total)
25.00	0.00

5.3: Rehabilitation & Resettlement of Affected Persons

Particular	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028

Proposed Number of Project Affected Persons(PAP)	0	0	0	0	0
Proposed Number of Person for Alternate Arrangement for Sustainable Livelihood	0	0	0	0	0
Proposed Number of Person for Skill Training	0	0	0	0	0
Proposed Number of Person Likely to get Direct Employment	0	0	0	0	0
Proposed Number of Person Likely to get Indirect Employment	0	0	0	0	0
Proposed Project Affected Families Skilled and Absorbed	0	0	0	0	0
Proposed Number of Project Affected Families	0	0	0	0	0

Chapter 6: Progressive Mine Closure Plan

6.1: Status of Land

Total Area Degraded					Total mined out area Reclaimed and Rehabilitated			Other Areas Reclaimed and Rehabilitated	
Total area under excavation in the lease		Area under Dumps(in hect)	Area under utility services(in hect)	Area under Stack yards(in hect)	Mined out Area Reclaimed but not rehabilitated(in hect)	Mined outArea fully Rehabilitated from Reclaimed area(in hect)	Area under Water Reservoir considered Rehabilitated (in hect)	Stabililized Waste dump Rehabilitated (in hect)	Virgin area under Green Belt (in hect)
Area under mining operation	Mined Out area in the lease								
0.08	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00

6.2: Progressive Reclamation and Rehabilitation Plan

6.2.1: Backfilling

Quantity of Waste / Fill Material Available at Site (m^3)	0.00
Availability of Top Soil for Sprcading (m^3)	0.00
Proposed Spread Area (m^2)	0.00

6.2.1.1: Year Wise Proposal

SI.No	Year	Pit ID	Area (m^2)	Top RL	Bottom RL	Estimated Expenditure (₹ INR)
1	Nil	0	0.00	0	0	0.00

6.2.2: Water Reservoir

Average Rainfall of The Area (mm)	1150.00
Proposed Area under Water Storage	2.4 H.

6.2.2.1: Preparations For Ground Water Recharging

6.2.2.1.1: Drilling Holes	
Year	Proposed no of Holes to be Drilled
2023-2024	1.00
2024-2025	1.00
2025-2026	1.00
2026-2027	1.00
2027-2028	1.00

6.2.2.1.2:Preparation of Course Gravel Bed	
Year	Proposed Area of Bed (LxW)
2023-2024	2X2
2024-2025	2X2
2025-2026	2X2
2026-2027	2X2
2027-2028	2X2

Please specify, if others
NIL

6.2.2.2: Protective measures (Please specify running meter)

6.2.2.2.1: Fencing			
Year	Proposed Fencing Length (m)	Latitude(dd:mm:ss.ss)	Longitude(dd:mm:ss.ss)

		From	To	From	To
2023-2024	200	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2024-2025	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2025-2026	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2026-2027	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2027-2028	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81

6.2.2.2.2: Retaining Wall

Year	Proposed Wall Length (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
		From	To	From	To
2023-2024	200	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2024-2025	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2025-2026	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2026-2027	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2027-2028	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81

6.2.2.2.3: Garland Drains

Year	Proposed Bund Length (m)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)	
		From	To	From	To
2023-2024	200	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2024-2025	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2025-2026	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2026-2027	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81
2027-2028	0	22:03:58.94	22:04:00.80	80:26:54.30	80:26:56.81

6.2.3: Green Belt Development

6.2.3.1: Cumulative work done (upto end of previous block of five years)

SI.No	Total Expenditure Incurred up to Last Year (INR)	Area Covered (Ha)	Number of Plants	Survival Rate (%)
1	0.00	0.00	Nil	0.00

6.2.3.2: Year Wise Proposal

SI.No	Year	Green Belt Location (s)	Area Proposed to be Covered (Ha)	Number of Plants Proposed	Expected Survival Rate (%)	Estimated Expenditure (₹ INR)
1	2023-2024	North west	0.9	100	80	10000
2	2024-2025	North west	0.9	100	80	10000
3	2025-2026	North west	0.9	100	80	10000
4	2026-2027	North west	0.9	100	80	10000
5	2027-2028	North west	0.9	100	80	10000

6.2.4: Use of Shallow Pits

6.2.4.1: Cumulative Work Done (upto end of previous block of five years)

SI.No	Pit ID	Work Done	Area covered (m^2)	Total Expenditure Incurred (up to last five year block) (₹ INR)
1	0	0	0.00	0.00

6.2.4.2: Year Wise Proposal

SI.No	Year	Pit ID	Total Area(Ha)	Area Proposed for Crops (Ha)	Suitable Crops	Area Proposed for Grass (Ha)	Total Proposed Expenditure (₹ INR)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Remarks
								From	To	From	To	

1	Nil	0	0.00	0.00	0	0.00	0.00	Nil	Nil	Nil	Nil	0

6.2.5: Pisciculture

6.2.5.1: Total Expenditure incurred as on Date (INR)	0

6.2.5.2: Cumulative work done as on Date

SI.No	Pit ID	Area (m^2)	Expenditure (₹ INR)
1	0	0.00	0.00

6.2.5.3: Year Wise Proposal

SI.No	Year	Pit ID	Area (m^2)	Estimated Expenditure (₹ INR)
1	Nil	0	0.00	0.00

6.2.5.4: Source of Water for Pisciculture	nil
6.2.5.5: Whether the quality of water has been assessed & found to be suitable for Pisciculture	Yes

6.2.6: Recreational Facility

6.2.6.1: Total Expenditure Incurred (up to last five year block) (INR)	0.00

6.2.6.2: Cumulative work done as on Date

SI.No	Pit ID	Area (m^2)	Expenditure (₹ INR)
1	0	0.00	0.00

6.2.6.3: Year Wise Proposal

SI.No	Year	Type of Recreational Facility	Area Covered (Ha)	Latitude (dd:mm:ss.ss)		Longitude (dd:mm:ss.ss)		Estimated Expenditure (INR)
				From	To	From	To	
1	2023-2024	0	0.00	Nil	Nil	Nil	Nil	0.00
2	2024-2025	Space for cultural activity development	0.24	22:03:55.22	22:03:56.39	80:26:46.53	80:26:56.39	5000.00
3	2025-2026	0	0.00	Nil	Nil	Nil	Nil	Nil
4	2026-2027	0	0.00	Nil	Nil	Nil	Nil	Nil
5	2027-2028	0	0.00	Nil	Nil	Nil	Nil	Nil

6.2.7: Dump Area Stabilization & Development

SI.No	Year	Dump ID	No of Terraces	Average Height of Terraces (m)	Length of Toe Wall (m)	Length of Garland Drain (m)	Area Stabilized (Ha)	Method of Stabilization	Estimated Expenditure (₹ INR)	No of Check Dams
1	Nil	0	0	0.00	0.00	0.00	0.00	0	0.00	Nil

6.2.8: Other Form of Reclaiming the Area

6.2.8.1: Cumulative work done as on Date

SI.No	Total Expenditure incurred as on Date (INR)	Work Done
1	0.00	0

6.2.8.2: Year Wise Proposal

SI.No	Year	Work Proposals	Estimated Expenditure (INR)
1	2023-2024	100 trees sampling	10000.00
2	2024-2025	100 trees sampling	10000.00

3	2025-2026	100 trees sampling	10000.00
4	2026-2027	100 trees sampling	10000.00
5	2027-2028	100 trees sampling	10000.00

6.2.9: TopSoil Management

6.2.9.1: Cummulative Work Done as on Date

SI.No	Top Soil Generated (m^3)	Top Soil Utilized (m^3)	Topsoil Stored (m^3)	Total expenditure incurred as on date (₹)
1	0.00	0.00	0.00	0.00

6.2.9.2: Year Wise Proposal

SI.No	Year	Topsoil Generated (m^3) (A)	Topsoil Utilized (m^3) (B)	Topsoil Stored (m^3) (A-B)	Estimated Expenditure (INR)
1	2023-2024	0.00	0.00	0.00	0.00
2	2024-2025	3608.00	0.00	3608.00	2000.00
3	2025-2026	3960.00	0.00	3960.00	2000.00
4	2026-2027	4400.00	0.00	4400.00	2000.00
5	2027-2028	4400.00	0.00	4400.00	2000.00

6.2.10: Tailings Dam Management

SI.No	Year	Yearly generation of Tailing (m^3) (A)	Total capacity of Tailing Pond (m^3)	Measures Proposed for Periodic Desilting	Yearly Utilization of Tailing (m^3) (B)	Disposal of Tailing to Tailing Pond (m^3) (A-B)	Tailing Dam Design	Structural Stability Studies
1	2023-2024	0.00	0.00	0	0.00	0.00	Nil	Nil
2	2024-2025	0.00	0.00	0	0.00	0.00	Nil	Nil

3	2025-2026	0.00	0.00	0	0.00	0.00	Nil	Nil
4	2026-2027	0.00	0.00	0	0.00	0.00	Nil	Nil
5	2027-2028	0.00	0.00	0	0.00	Nil	Nil	Nil

6.2.11: Land Use of Lease Area at the Expiry of Lease Period

Total Area Degraded				Non Degraded area	Total mined out area Reclaimed and Rehabilitated			Other Areas Reclaimed and Rehabilitated			
Mined Out area in the lease	Area under Dumps(in hect)	Area under the Tailing Dam	Area under utility services(in hect)	Area undisturbed/virgin	Mined out Area Reclaimed but not rehabilitated(in hect)	Mined outArea fully Rehabilitated from Reclaimed area(in hect)	Area under Water Reservoir considered Rehabilitated (in hect)	Stabililized Waste dump Rehabilitated (in hect)	Virgin area under Green Belt (in hect)	Rehabilitated Area under utility services(in hect)	Rehabilitated Area under Tailing dam (in hect)
3.67	0.20	0.00	0.10	36.26	0.00	0.00	3.59	0.00	0.10	0.00	0.00

Chapter 7: Financial Assurance/ Performance Surety (AREA PUT TO USE)

2023-2024

Consolidated View of Financial Assurance

SI.No	Particular	Area put to use at Start of Year (ha) (A)	Additional Requirement (ha) (B)	Total (ha) (C = A + B)
1	Area under Mining	0.08	0.32	0.40
2	Topsoil stacking	0.04	0.20	0.24
3	Overburden/Waste Dumping	0.00	0.00	0.00
4	Mineral Storage	0.00	0.10	0.10
5	Infrastructure (Workshop, Administrative Building etc.)	0.00	0.01	0.01
6	Roads	0.10	0.00	0.10
7	Railway	0.00	0.00	0.00
8	Tailing Pond	0.00	0.00	0.00
9	Effluent Treatment Plant	0.00	0.00	0.00
10	Mineral Separation Plant	0.00	0.00	0.00
11	Township Area	0.00	0.00	0.00
12	Others to specify	0.00	0.00	0.00
	Total	0.22	0.63	0.85

2024-2025

Consolidated View of Financial Assurance

SI.No	Particular	Area put to use at Start of Year (ha) (A)	Additional Requirement (ha) (B)	Total (ha) (C = A + B)
1	Area under Mining	0.40	0.72	1.12
2	Topsoil stacking	0.24	0.00	0.24
3	Overburden/Waste Dumping	0.00	0.00	0.00
4	Mineral Storage	0.10	0.00	0.10
5	Infrastructure (Workshop, Administrative Building etc.)	0.01	0.00	0.01
6	Roads	0.10	0.00	0.10
7	Railway	0.00	0.00	0.00
8	Tailing Pond	0.00	0.00	0.00
9	Effluent Treatment Plant	0.00	0.00	0.00
10	Mineral Separation Plant	0.00	0.00	0.00
11	Township Area	0.00	0.00	0.00
12	Others to specify	0.00	0.00	0.00
	Total	0.85	0.72	1.57

2025-2026

Consolidated View of Financial Assurance

SI.No	Particular	Area put to use at Start of Year (ha) (A)	Additional Requirement (ha) (B)	Total (ha) (C = A + B)
1	Area under Mining	1.12	0.79	1.91
2	Topsoil stacking	0.24	0.00	0.24
3	Overburden/Waste Dumping	0.00	0.00	0.00
4	Mineral Storage	0.10	0.00	0.10
5	Infrastructure (Workshop, Administrative Building etc.)	0.01	0.00	0.01

6	Roads	0.10	0.00	0.10
7	Railway	0.00	0.00	0.00
8	Tailing Pond	0.00	0.00	0.00
9	Effluent Treatment Plant	0.00	0.00	0.00
10	Mineral Separation Plant	0.00	0.00	0.00
11	Township Area	0.00	0.00	0.00
12	Others to specify	0.00	0.00	0.00
	Total	1.57	0.79	2.36

2026-2027

Consolidated View of Financial Assurance

SI.No	Particular	Area put to use at Start of Year (ha) (A)	Additional Requirement (ha) (B)	Total (ha) (C = A + B)
1	Area under Mining	1.91	0.88	2.79
2	Topsoil stacking	0.24	0.00	0.24
3	Overburden/Waste Dumping	0.00	0.00	0.00
4	Mineral Storage	0.10	0.00	0.10
5	Infrastructure (Workshop, Administrative Building etc.)	0.01	0.00	0.01
6	Roads	0.10	0.00	0.10
7	Railway	0.00	0.00	0.00
8	Tailing Pond	0.00	0.00	0.00
9	Effluent Treatment Plant	0.00	0.00	0.00
10	Mineral Separation Plant	0.00	0.00	0.00
11	Township Area	0.00	0.00	0.00
12	Others to specify	0.00	0.00	0.00
	Total	2.36	0.88	3.24

2027-2028

Consolidated View of Financial Assurance

SI.No	Particular	Area put to use at Start of Year (ha) (A)	Additional Requirement (ha) (B)	Total (ha) (C = A + B)
1	Area under Mining	2.79	0.88	3.67
2	Topsoil stacking	0.24	0.00	0.24
3	Overburden/Waste Dumping	0.00	0.00	0.00
4	Mineral Storage	0.10	0.00	0.10
5	Infrastructure (Workshop, Administrative Building etc.)	0.01	0.00	0.01
6	Roads	0.10	0.00	0.10
7	Railway	0.00	0.00	0.00
8	Tailing Pond	0.00	0.00	0.00
9	Effluent Treatment Plant	0.00	0.00	0.00
10	Mineral Separation Plant	0.00	0.00	0.00
11	Township Area	0.00	0.00	0.00
12	Others to specify	0.00	0.00	0.00
	Total	3.24	0.88	4.12
	Grand Total			4.12

Financial Assurance

Financial Assurance

Category A Mining Lease

Total Area Proposed to be put to use in	Amount of Bank Gurantee (Lac INR)	Valid till (dd/mm/yyyy)	Upload copy of Bank Gurantee as attachment

hect(Year 1 to 5)			
4.12	20.60	31/03/2027	bank_gurantee.pdf

Category B Mining Lease

SI.No	Total Area Proposed to be put to use in hect(Year 1 to 5)	Amount of Bank Gurantee (Lac INR)	Valid till (dd/mm/yyyy)	Upload copy of Bank Gurantee as attachment
1	Nil	Nil	Nil	Nil

Chapter 8: Review of Previous Proposals (Not applicable for fresh grant)

8.1: General

8.1.1: Lease Area Utilization

Sl. No.	Type of land use (in ha)	Area at the beginning of the proposal period	Area proposed under activity	Actual Area utilized in the proposal period	Deviation	Reasons for deviation
1	Mining	0.08	2.40	0.00	-2.40	Clearance from forest department was delayed
2	Mineral storage	0.00	0.00	0.00	0	Clearance from forest department was delayed
3	Mineral Beneficiation plant	0.00	0.00	0.00	0	Clearance from forest department was delayed
4	Township	0.00	0.00	0.00	0	Clearance from forest department was delayed
5	Tailing Pond	0.00	0.00	0.00	0	Clearance from forest department was delayed
6	Railways	0.00	0.00	0.00	0	Clearance from forest department was delayed
7	Roads	0.30	0.06	0.00	-0.06	Clearance from forest department was delayed
8	Infrastructure (Workshop, administrative building etc.)	0.00	0.03	0.00	-0.03	Clearance from forest department was delayed
9	OB/waste dump	0.00	0.00	0.00	0	Clearance from forest department was delayed
10	Top soil preservation	0.51	0.30	0.00	-0.30	Clearance from forest department was delayed

11	Others	0.00	0.22	0.00	-0.22	Clearance from forest department was delayed
12	Total area put to use	0.89	3.01	0.00	-3.01	Clearance from forest department was delayed
13	Excavated area reclaimed	0.00	0.00	0.00	0	Clearance from forest department was delayed
14	Waste dump area reclaimed	0.00	0.00	0.00	0	Clearance from forest department was delayed
15	Undisturbed Area	39.57	37.45	0.00	-37.45	Clearance from forest department was delayed
	Total	40.46	40.46	0.00	-40.46	

8.1.2: SDF and CSR Expenditures

Activity	Proposals		Achievement	Deviation	Reasons for deviation
Total expenditure incurred for implementation of SDF at mine level including - Environment Protection - CSR & other welfare activities in peripheral area (Explanation: Expenditure is not over and above the statutory levies imposed by the Government; However, THIS EXCLUDES CONTRIBUTION TO DMF & NMET and is over and above the statutory levies imposed by the Government.)	10% of Royalty (a)	Total Expenditure for SDF implementation (b)			
CSR (Corporate Social Responsibility) spending at the mine level in Proposal Period (as per Companies Act, 2013 or otherwise)	0.00	0.00	0.00	0.00	0

8.2: Technical Details

8.2.1: Exploration

Particulars	Proposals			Achievement			Deviation			Reasons for deviation
	Boreholes	Pits	Trenchs	Boreholes	Pits	Trenchs	Boreholes	Pits	Trenchs	
Number of Boreholes/ Pits/ Trenches	116	0	0	Nil	Nil	Nil	-116	Nil	Nil	Clearance from forest department was delayed3
Boreholes Meterage (If Boreholes selected in first row) (m)	3480			0			-3480			Clearance from forest department was delayed
Grid	50			0			-50			Clearance from forest department was delayed
G Axis upgradation during Proposal Period as per guidelines of MEMC Rule 2015)	0			0			0			0
Area converted under G1 from G2/G3	0			0			0			Clearance from forest department was delayed

8.2.2: Mine Development (Opencast/ Underground/ Both/ Dump Mining)

Particulars	Proposals	Actual	Deviation	Reasons for deviation

8.2.2.1: Generation of Ore/Waste While Development				
Ore	694203	0	-694203	Clearance from forest department was delayed
Waste	0	0	0	0
Generated Waste while ROM recovery	0	0	0	0
Dumping Site (For Surface)	11968	0	-11968	Clearance from forest department was delayed
Removal of waste/ over burden in cubic meters	11968	0	-11968	Clearance from forest department was delayed
8.2.2.2: Excavation				
Lateral extent	0	0	0	Clearance from forest department was delayed
Vertical extent	0	0	0	Clearance from forest department was delayed

8.2.3: Mining operation: Dump Mining

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
Handling of Material	0	0	0	0
Waste Generated post recovery	0	0	0	0
Dumping site for waste	0	0	0	0

8.2.4: Zero Waste Mining

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
Alternative use / Disposal of Waste Generated (excluding top soil)	0.00	0.00	0.00	0

8.2.5: Backfilling

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
Site (Co-ordinates)	0	0	0	0
Area	0	0	0	0
Depth	0	0	0	0
Volume Backfilled (CuM)	0	0	0	0
Backfilled Area available for Reclamation and Rehabilitation	0	0	0	0
Backfilled Area Reclaimed and Rehabilitated	0	0	0	0
Balance Backfilled Area	0	0	0	0

8.2.6: Production of Mineral(s)

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
8.2.6.1: ROM				
Opencast	730740.0000	0.0000	-730740.0000	Clearance from forest department was delayed
8.2.6.2: Cleaned Ore				
Opencast	694203.0000	0.0000	-694203.0000	Clearance from forest department was delayed
Dump Mining	0.0000	0.0000	0.0000	0
Recovery from Mineral Rejects or Tailings	0.0000	0.0000	0.0000	0
Total	694203.0000	0.0000	-694203.0000	0

8.2.7: Handling of Mineral Rejects/ Sub-Grade

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
Generation of mineral rejects				

Opencast	0	0	0	0
Dump Mining	0	0	0	0
Other recovery	0	0	0	0
Stacking of mineral rejects/ sub-grade mineral (Dump Id)	0	0	0	0
Blending of mineral reject / sub-grade	0	0	0	0

8.2.8: Environment Compliances

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
8.2.8.1: Top soil				
Generation	11968	0	-11968	Clearance from forest department was delayed
Utilization	11968	0	-11968	Clearance from forest department was delayed
Stacking (Dump Id)	TEM.S.D.	0	0	Clearance from forest department was delayed
Reclamation	0	0	0	0
Rehabilitation	0	0	0	0
8.2.8.2: Afforestation (Dumps/Benches/Backfilled Area etc.)				
2018 - 2019	0	0	0	0
2019 - 2020	0	0	0	0
2020 - 2021	0	0	0	0
2021 - 2022	0	0	0	0
2022 - 2023	0	0	0	0
8.2.8.3: Afforestation (Green Belt)				

2018 - 2019	72	0	-72	Clearance from forest department was delayed
2019 - 2020	72	0	-72	Clearance from forest department was delayed
2020 - 2021	72	0	-72	Clearance from forest department was delayed
2021 - 2022	72	0	-72	Clearance from forest department was delayed
2022 - 2023	72	0	-72	Clearance from forest department was delayed
Construction of check dams	0	0	0	0
Construction of Garland Drain (in meter)	0	0	0	0
Construction of Retaining Walls (in meter)	0	0	0	0
8.2.8.4: Tailings				
Generation	0	0	0	0
Utilization	0	0	0	0
Disposal	0	0	0	0

8.3: Socio-Economic Review

8.3.1: Rehabilitation & Resettlement for Project Affected People

Particulars	Proposals	Achievement	Deviation	Reasons for deviation
No. of Project Affected People (PAP)	0.0000	0.0000	0.0000	0
%age of PAP for whom alternate arrangements made for sustained	0.0000	0.0000	0.0000	0

livelihood				
% of project affected families given employment	0.0000	0.0000	0.0000	0
% of project affected families who have been skilled by the lessee and absorbed (% of total employment given to affected families)	0.0000	0.0000	0.0000	0

8.3.2 : Grievance Redressal

Grievances Received	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2022 - 2023
	0	0	0	0	0
Grievances Redressed	0	0	0	0	0

8.3.3: Welfare and socio-economic development programs for local communities

Particulars	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022	2022 - 2023
8.3.3.1 Support for Drinking Water & Agriculture					
No. of Water Storage Tanks constructed	0	0	0	0	0
Drinking Water Facilities provided (Bore wells/ Pumps etc.)	0	0	0	0	0
Irrigation Support provided (Canals/ Pumps etc.)	0	0	0	0	0
No. of Water tanks De-silted	0	0	0	0	0
Water Treatment facilities provided (A/NA)	0	0	0	0	0
Amount of Water treated (in kL) (if selected A in above)	0	0	0	0	00
8.3.3.2 Support to Health & Medical Services					
No. of persons identified from Occupational health diseases	0	0	0	0	0

No. of Health Camps/ Medicine Camps Organized	0	0	0	0	0
8.3.3.3 Support to Skill development & Education					
Vocational Training Provided/ Support Provided					
No. of employees undergone Vocational training	0	0	0	0	0
No. of other persons undergone Vocational training	0	0	0	0	0
Number of Literacy & Education Camps held/ Supported	0	0	0	0	0
8.3.3.4 Support to Transportation Services & Infrastructure					
Expenditure on Transportation Services & Infrastructure	0	0	0	0	0
Road development (m) in the peripheral area (not lease area)	0	0	0	0	0
No. of Public transport support provided (Ambulance/Buses/ School Vans etc)	0	0	0	0	0
8.3.3.5 Swatchata Programs: Creating/providing sanitation and healthy condition in and around the mine area					
Adoption of ODF within mining lease area					
No. of Toilets built in the Lease Area	0	0	0	0	0
Adoption of ODF in nearby villages					
No. Of Toilets built in the villages	0	0	0	0	0
Provision for greenage recreational facility (Within Lease Area/ Outside)					
Recreational Area Type (Picnic Spot/ tracks/Park Etc)	0	0	0	0	0
Area covered (For within Lease Area only)	0	0	0	0	0

Awareness program among Mine workers for Swatchata					
No. of Swatchchta Programmes held	0	0	0	0	0

Chapter 9 : Impact Assessment (NA)

Chapter 10: Annexures

1. Upload Document

1.1 Upload Document

SI.No.	Title	Is Upload	Document (only pdf allowed)
1	Letter of Intent /Letter of lease grant	Nil	lease_grant_letter.pdf
2	Copy of lease deed executed	Nil	sequence_of_lease_agreement.pdf
3	Copy of Declaration of Owner/Nominated Owner in case of Company/partnership firm	Nil	Nominees_and_resoulations.pdf
4	ID & Address Proof of Owner/ Nominated Owner	Nil	Vimal_Lalit_singh_pan_card_(1).pdf
5	Copy of Environment and Forest Clearence, Consent to Establish, Consent to Operate	Nil	5_(1)_EC_TOR.pdf
6	Copy of Registration of Company (RoC)/Partnership firm (Registration) & Deed	Nil	registration_certificate.pdf
7	Consent letter for Qualified Person	Nil	Consent_letter_owner.pdf
8	Experience & Qualification Details of Qualified Person	Nil	Nil
9	Certificate from QP	Nil	QP_Certificate.pdf
10	Copy of Bank Guarantee	Nil	bank_gurantee.pdf
11	Copy of Performance Surety	Nil	Nil
12	Copy of MDPA (as applicable)	Nil	Nil
13	Exploration details	Nil	Nil
14	Copy of feasibility Report	Nil	Pre_feasibility_report.pdf
15	Copy of Study reports conducted as per Para	Nil	B_D_and_Recovery_test_phadki.pdf

	4.3.1		
16	Chemical and Mineralogical analysis report	Nil	Chemical_analysis_C.pdf
17	Any other Report or Certification as required in the submitted Document.	Nil	Nil
18	Copy of Scale relaxation approval granted(if applicable)	Nil	Nil
19	Mineral processing flowsheet with stage wise recovery	Nil	annex_20_any_others_1.pdf
20	Any Other	Nil	Nil

Chapter 11: Plates (OC)

1. Upload Document

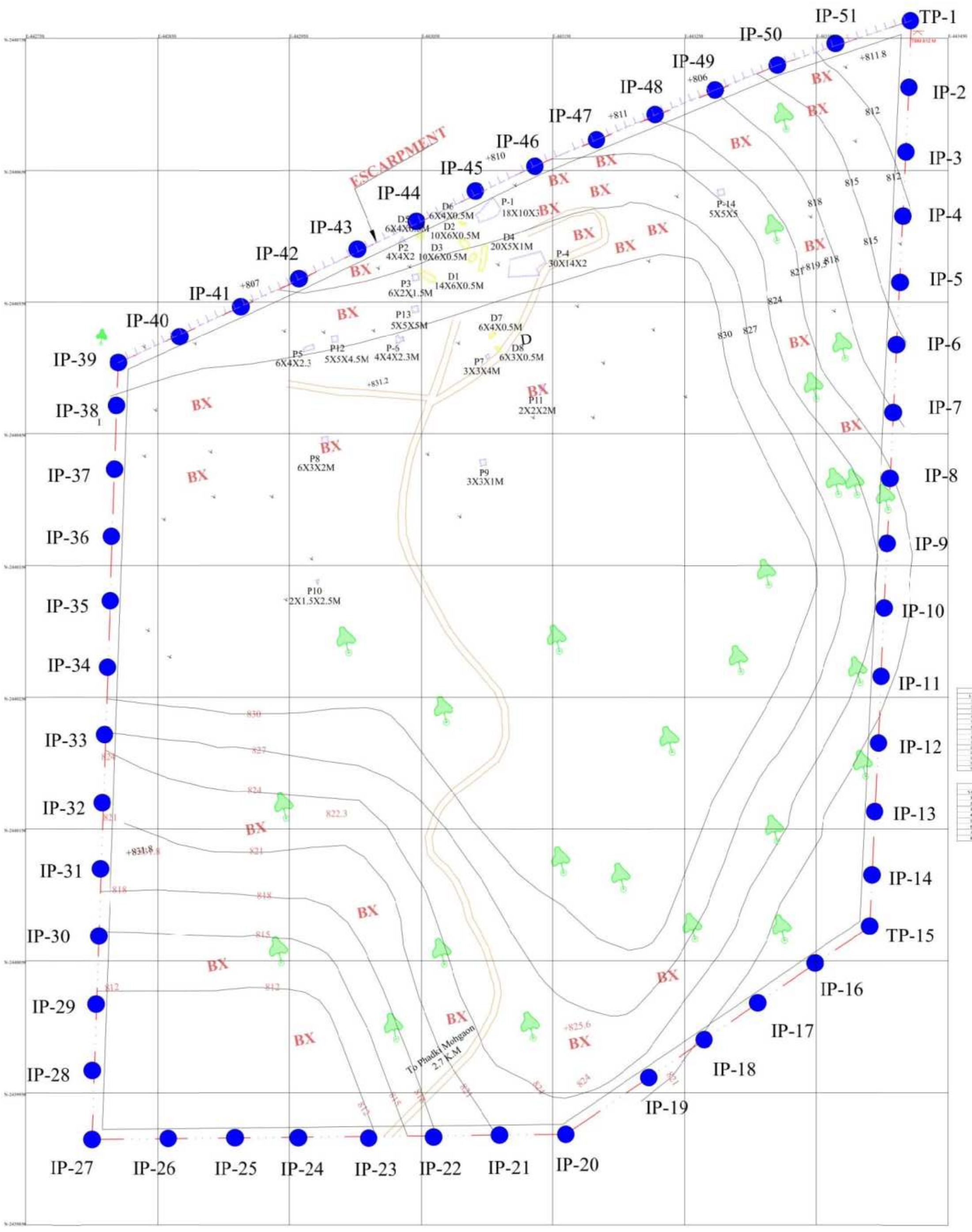
1.1 Upload Document

S.N.	Title	Is Upload	Document
1	Lease sketch plan;	Nil	lease_Sketch_MAP.pdf
2	Surface Plan (.KMZ format)(Georeferenced); A statutory plan as per MCDR, 2017. The Plan should be submitted showing different color codes for:(1) Active Pits & Excavation area(2) Excavated area reclaimed & rehabilitated (3)Active dumps (4) Stabilized & rehabilitated dump area , (5) Green belt (6) Mineral Stacks (7) Utilities such as plant, buildings etc (8) Lease boundary along with other details.)	Nil	Surface_Plan.kmz
3	Surface Geological Plan of the lease (.KMZ format)(Georeferenced); The Plan should be submitted showing different color codes for : (1) Lithological/Geological Occurance (2) Area under G1,G2,G3 & G4 (3) Active pits & Excavation area (4) Dump Area (5) Mineral Stacks (6) Lease boundary along with other details.)	Nil	Geological_Plan.kmz
4	Surface Geological sections (in Pdf format); Geological sections with different color coding depicting all the features shown in Surface Geological Plan.)	Nil	geological_section.pdf
5	Five year Production and Development plan (.KMZ format)(Georeferenced); The Plan should be submitted showing different color coding for: (1) Active Pit and Excavation area ,	Nil	Five_Year_Dev_Plan.kmz

	(2) Year wise excavation proposal for year I to V ((3) Active dump and yearwise dump proposal for year I to V (4) Year wise Dump working proposal for year I to V (6) Lease boundary (with reference to chapter 4) along with other details.)		
6	Five year Production and Development sections (in pdf fromat); Year wise excavation and dumping proposals with different color coding depicting all the features as shown in the Five year Production and development plan.)	Nil	FIVE_YEAR_DEVE_PROD_SECTION.pdf
7	Progressive Mine Closure Plan (.KMZ format)(Georeferenced); The Plan should be submitted showing different color coding for : (1) Yearwise excavated area Reclaimed & rehabilitated for year I to V (2) Year wise dump area to be stabilized and dump area to be rehabilitatd for year I to V (3) Year wise Green area proposed from year I to V.(4) Any other reclamation and rehabilitation measures proposed.(5) Lease boundary (with reference to chapter 6) along with other details.)	Nil	PMCP_Plan.kmz
8	Progressive mine Closure sections (in pdf format); Year wise Progressive mine clouser sections showing all the yearwise reclamation, rehabilitaion proposals as depicted in the Progessive mine clouser plan.)	Nil	PROGRESSIVE_MINE_CLOSURE_SECTION.pdf
9	Conceptual Plan (.KMZ format)(Georeferenced); The Plan should depict the staus of lease area as envisaged at the end of life of Mine showing all the details. Status of land use shall be depicted by different color coding.)	Nil	Conceptual_plan.kmz
10	Conceptual Sections (pdf) format;	Nil	conceptual_section.pdf
11	Geo referenced Cadastral Plan; Duly certified by the State Government)	Nil	Nil
12	Financial Assurance Plan (KMZ);	Nil	Financial_Assurance_Area_Plan.kmz

13	Environmental Plan (.KMZ format)(Georeferenced); As per MCDR, 2017 indicating all the details.)	Nil	Enviroment_plan.kmz
14	Any other plan/section as deemed necessary by approving authority;	Yes	pit_lay_out_plan.pdf
15	Five Year Production and Development sections (in pdf format);	Yes	all_plates.pdf
16	LEVEL WISE SLICE PLAN; LEVEL WISE SLICE PLAN (PDF FORMAT IN VISIBLE SCALE))	Nil	Nil

Chapter 11 : Plates(UG) : NA



DATE OF SURVEY : 25/11/2023

SCALE:- 1:1,000

Sr. No.	TP ID	WGS 84 DMS		UTM - 44 N	
		LATTITUDE	LONGITUDE	NORTHING	EASTING
1	TP-1	22°04'14.829"N	80°27'5.826"E	2440763.744	443423.087
2	IP-2	22°04'13.205"N	80°27'5.735"E	2440713.822	443420.301
3	IP-3	22°04'11.581"N	80°27'5.644"E	2440663.899	443417.515
4	IP-4	22°04'9.957"N	80°27'5.553"E	2440613.977	443414.729
5	IP-5	22°04'8.334"N	80°27'5.462"E	2440564.055	443411.943
6	IP-6	22°04'6.710"N	80°27'5.371"E	2440514.133	443409.156
7	IP-7	22°04'5.086"N	80°27'5.280"E	2440464.21	443406.37
8	IP-8	22°04'3.462"N	80°27'5.189"E	2440414.288	443403.584
9	IP-9	22°04'1.838"N	80°27'5.098"E	2440364.366	443400.798
10	IP-10	22°04'0.214"N	80°27'5.007"E	2440314.443	443398.012
11	IP-11	22°03'58.590"N	80°27'4.916"E	2440264.521	443395.226
12	IP-12	22°03'56.966"N	80°27'4.825"E	2440214.599	443392.44
13	IP-13	22°03'55.342"N	80°27'4.734"E	2440164.676	443389.653
14	IP-14	22°03'53.718"N	80°27'4.644"E	2440114.754	443386.867
15	TP-15	22°03'52.528"N	80°27'4.577"E	2440078.158	443384.825
16	IP-16	22°03'51.609"N	80°27'3.137"E	2440050.06	443343.467
17	IP-17	22°03'50.690"N	80°27'1.698"E	2440021.962	443302.108
18	IP-18	22°03'49.772"N	80°27'0.258"E	2439993.864	443260.75
19	IP-19	22°03'48.853"N	80°26'58.819"E	2439965.766	443219.392
20	TP-20	22°03'47.479"N	80°26'56.666"E	2439923.734	443157.525
21	IP-21	22°03'47.465"N	80°26'54.921"E	2439923.502	443107.525
22	IP-22	22°03'47.452"N	80°26'53.177"E	2439923.27	443057.526
23	IP-23	22°03'47.439"N	80°26'51.432"E	2439923.038	443007.526
24	IP-24	22°03'47.425"N	80°26'49.688"E	2439922.806	442957.526
25	IP-25	22°03'47.412"N	80°26'47.943"E	2439922.574	442907.527
26	IP-26	22°03'47.398"N	80°26'46.199"E	2439922.342	442857.527
27	IP-27	22°03'47.382"N	80°26'44.162"E	2439922.071	442799.142
28	IP-28	22°03'49.008"N	80°26'44.209"E	2439972.048	442800.668
29	IP-29	22°03'50.634"N	80°26'44.255"E	2440022.025	442802.194
30	IP-30	22°03'52.259"N	80°26'44.302"E	2440072.002	442803.72
31	IP-31	22°03'53.885"N	80°26'44.349"E	2440121.978	442805.246
32	IP-32	22°03'55.510"N	80°26'44.396"E	2440171.955	442806.772
33	IP-33	22°03'57.136"N	80°26'44.443"E	2440221.932	442808.298
34	IP-34	22°03'58.761"N	80°26'44.490"E	2440271.909	442809.824
35	IP-35	22°04'0.387"N	80°26'44.537"E	2440321.886	442811.35
36	IP-36	22°04'2.012"N	80°26'44.584"E	2440371.863	442812.876
37	IP-37	22°04'3.638"N	80°26'44.631"E	2440421.839	442814.402
38	IP-38	22°04'5.264"N	80°26'44.678"E	2440471.816	442815.928
39	TP-39	22°04'6.345"N	80°26'44.709"E	244050.052	442816.943
40	IP-40	22°04'6.890"N	80°26'46.352"E	2440521.644	442864.11
41	IP-41	22°04'7.638"N	80°26'47.901"E	2440544.497	442908.582
42	IP-42	22°04'8.394"N	80°26'49.446"E	2440567.56	442952.945
43	IP-43	22°04'9.149"N	80°26'50.991"E	2440590.611	442997.314
44	IP-44	22°04'9.891"N	80°26'52.544"E	2440613.285	443041.877
45	IP-45	22°04'10.556"N	80°26'54.136"E	2440633.57	443087.578
46	IP-46	22°04'11.197"N	80°26'55.739"E	2440653.094	443133.608
47	IP-47	22°04'11.837"N	80°26'57.343"E	2440672.619	443179.639
48	IP-48	22°04'12.477"N	80°26'58.946"E	2440692.143	443225.669
49	IP-49	22°04'13.123"N	80°27'0.548"E	2440711.828	443271.631
50	IP-50	22°04'13.771"N	80°27'2.148"E	2440731.572	443317.567
51	IP-51	22°04'14.297"N	80°27'3.799"E	2440747.586	443364.934

PIT DETAILS			
S.N.	LENGTH	WIDTH	HEIGHT
[illegible]	[illegible]	[illegible]	[illegible]

DUMP DETAILS			
S.N.	LENGTH	WIDTH	HEIGHT
1	14	6	0.5
2	10	6	0.5
3	10	6	0.5
4	20	5	1
5	6	4	0.5
6	6	4	0.5
7	6	4	0.5
8	6	4	0.5

INDEX

- LEASE BOUNDARY
- 7.5M. BARRIER ZONE
- ULTIMATE PIT LIMIT
- IP-1 BOUNDARY PILLAR
- +811.8 SPOT LEVEL
- TEMPORARY BENCH MARK
- CONTOUR
- APPROACH ROAD/ MINE ROAD
- EXISTING PIT
- EXISTING DUMP
- EXISTING TREE
- SOIL

PLATE NO.04

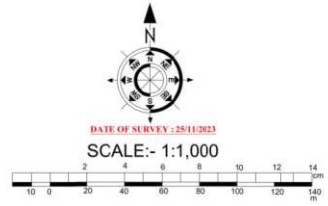
SURFACE PLAN

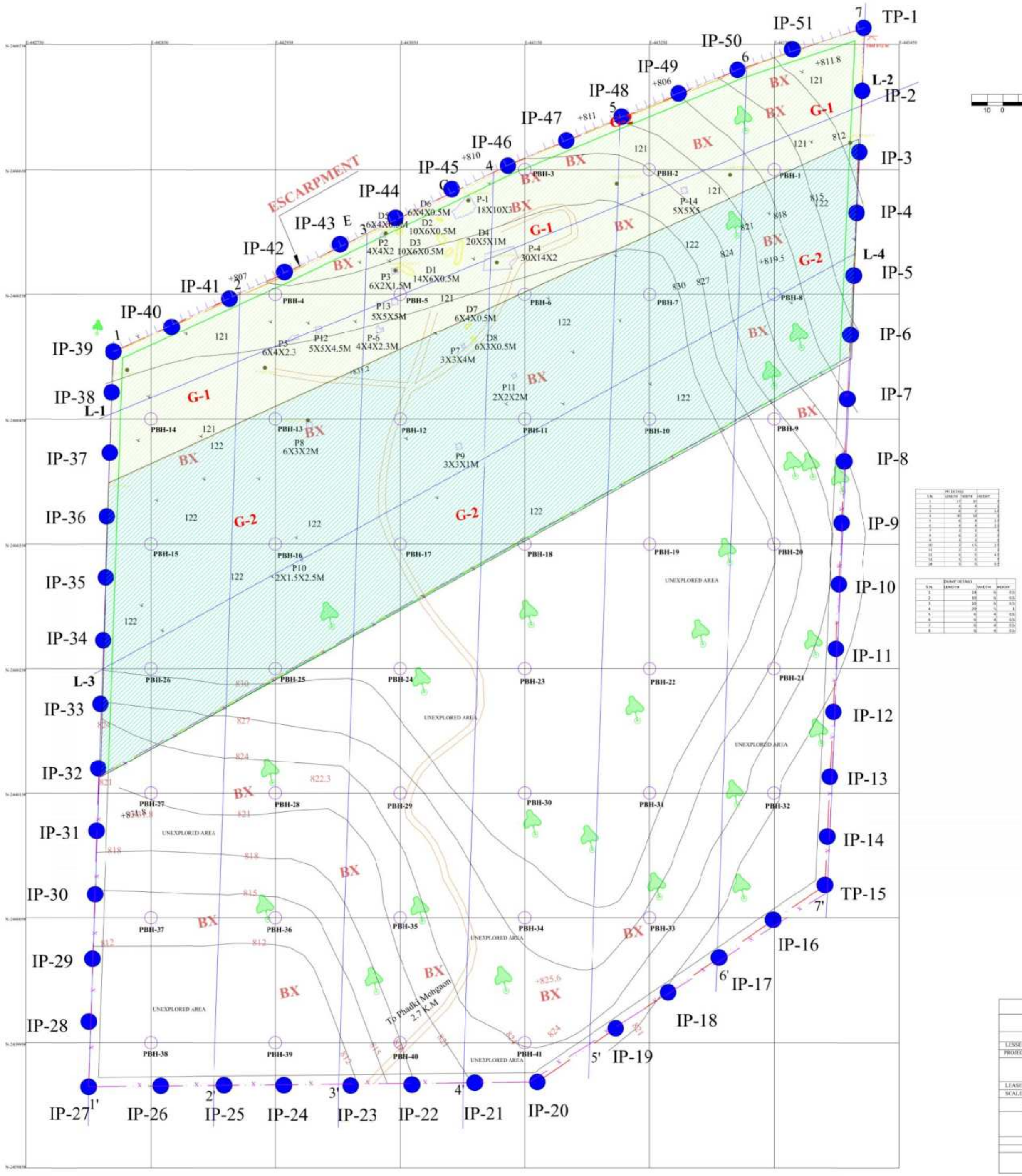
REVIEW OF MINING PLAN (PERIOD 2023-24 TO 2027-28)

LESSEE :	M/S DHARAMSEE MORARJI CAMICAL LTD.	
PROJECT :	PHADKI MOHGAON BAUXITE MINE	
	VILLAGE - PHADKI MOHGAON	TEHSIL - PARASWARA
	DISTRICT - BALAGHAT	STATE - MADHYA PRADESH
	MINE CODE - 07MPR392001	IBM REGN NO - IBM/15580/2013
LEASE AREA :	40.468HECTARES	DATE OF SURVEY - 25-11-2023
SCALE :	1:1000	FOREST COMPARTMENT NO 1491

Certified that the above plan is correct to the best of my knowledge and belief and the plan is prepared based on the lease plan authenticated by the state government

SANJAY PANDEY	RAKESH KUMAR CHOUBEY
SURVEYED BY - SANJAY PANDEY	PREPARED BY -R.K. CHOUBEY
DGMS Surveyor	Qualified Person
CERT NO.EXAM/EXEMPT/SRV/REST/08	M.SC GEOLOGY





INDEX

- LEASE BOUNDARY
- 7.5M. BARRIER ZONE
- ULTIMATE PIT LIMIT
- IP-1 BOUNDARY PILLAR
- +811.8 SPOT LEVEL
- TEMPORARY BENCH MARK
- CONTOUR
- APPROACH ROAD/ MINE ROAD
- EXISTING PIT
- EXISTING DUMP
- EXISTING TREE
- SOIL
- BAUXITE
- 121 PROBABLE MINERAL RESERVE
- 221 FEASIBILITY MINERAL RESOURCE
- 122 PROBABLE MINERAL RESERVE
- 222 PRE FEASIBILITY MINERAL RESOUICE
- PROPOSED BORE HOLE DURING 2024-25YR
- STRIKE & DIP
- 1—1' SECTION LINE
- UNEXPLORE AREA
- SAMPLE LOCATION
- MINERALIZE AREA
- G-1(121) AREA UNDER G-1
- G-2(122) AREA UNDER G-2

PLATE NO.05

SURFACE GEOLOGICAL PLAN

REVIEW OF MINING PLAN (PERIOD 2023-24 TO 2027-28)

LESSEE :	M/S DHARAMSEE MORARJI CAMICAL LTD.	
PROJECT :	PHADKI MOHGAON BAUXITE MINE	
	VILLAGE - PHADKI MOHGAON	TEHSIL - PARASWARA
	DISTRICT - BALAGHAT	STATE - MADHYA PRADESH
	MINE CODE - 07MPR392001	IBM REGN NO - IBM/15100/2013
LEASE AREA :	40.468HECTARES	DATE OF SURVEY - 25-11-2023
SCALE :	1:1000	FOREST COMPARTMENT NO.1491

Certified that the above plan is correct to the best of my knowledge and belief and the plan is prepared based on the lease plan authenticated by the state government

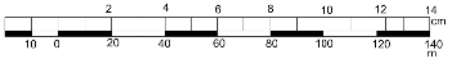
RAKESH KUMAR CHOUBEY

PREPARED BY -R.K. CHOUBEY

Qualified Person

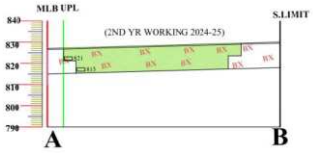
M.SC GEOLOGY

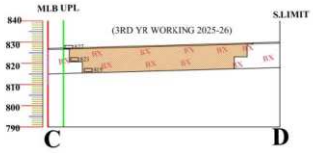
SCALE:- 1:1,000

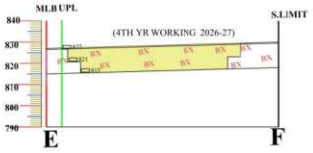


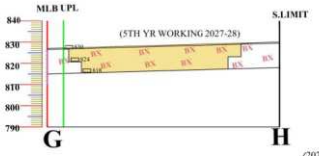
INDEX

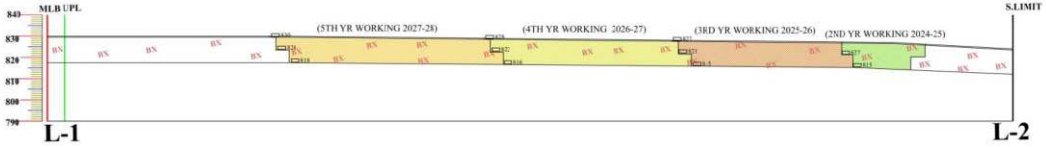
	LEASE BOUNDARY
	ULTIMATE PIT LIMIT
	SOIL
BX BX BX	BAUXITE
	2024-25 YR WORKING
	2025-26 YR WORKING
	2026-27 YR WORKING
	2027-28 YR WORKING
818	PROPOSED RL
A B	SECTION LINE
X X'	DUMP SECTION LINE











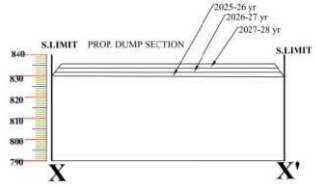


PLATE NO.06 a

FIVE YEAR DEVE.& PROD. SECTION

REVIEW OF MINING PLAN (PERIOD 2023-24 TO 2027-28)

LESSEE :	M/S DHARAMSEE MORARJI CAMICAL LTD.	
PROJECT :	PHADKI MOHGAON BAUXITE MINE	
	VILLAGE - PHADKI MOHGAON	TEHSIL - PARASWARA
	DISTRICT - BALAGHAT	STATE - MADHYA PRADESH
	MINE CODE - 07MPR392001	IBM REGN NO. - IBM/15580/2013
LEASE AREA :	40.468HECTARES	DATE OF SURVEY - 25-11-2023
SCALE :	1:1000	FOREST COMPARTMENT NO.1491

Certified that the above plan is correct to the best of my knowledge and belief and the plan is prepared based on the lease plan authenticated by the state government

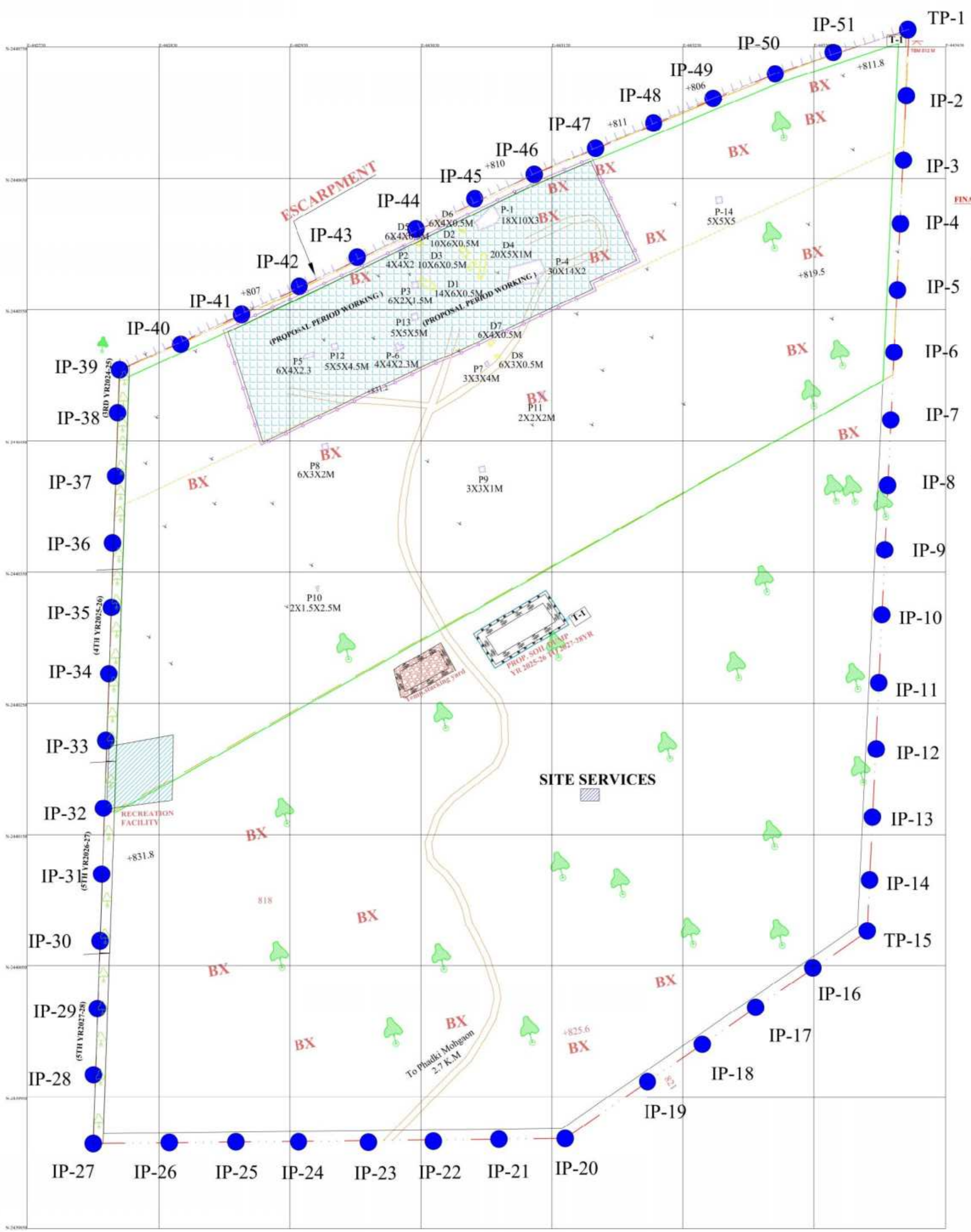
RAKESH KUMAR CHOUBEY

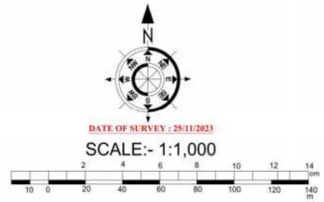
Digitally signed by RAKESH KUMAR CHOUBEY
Date: 2024.04.04 21:28:42 +05'30'

PREPARED BY -R.K. CHOUBEY

Qualified Person

M.SC GEOLOGY





FINANCIAL ASSURANCE AT THE END OF 2027-28 YR

S.N	PARTICULAR	AREA PUT TO USE AT THE START OF YEAR (Ha.) A	ADDITIOAN REQUIREMENT (Ha) B	TOTAL (Ha) C=A+B
1	AREA UNDER MINING	0.08	3.59	3.67
2	TOP SOIL STAKING	0.04	0.2	0.24
3	OVERBURDEN/WASTE DUMP ING	0	0	0
4	MINERAL STORAGE	0	0.1	0.1
5	INFRASTRUCTURE WORKSHOPADMISTRATIVE BUILDING AND PLANT AREA ETC.	0	0.01	0.01
6	ROAD	0.1	0	0.1
7	RAILWAY	0	0	0
8	TAILLING POND	0	0	0
9	EFFLUENT TREATMENT PLANT	0	0	0
10	MINERAL SSEPARATION PLANT	0	0	0
11	TOWNSHIP AREA	0	0	0
12	OTHER TO BE SPECIFY (SDF/RECREATION ETC.)	0	0	0
	TOTAL	0.22	3.9	4.12
	TOTAL FINANCIAL ASSURANCE AMOUNT (TOTAL AREA X 5,00,000/-)	2060000		

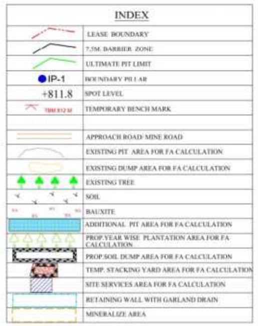


PLATE NO.07

FINANCIAL ASSURANCE PLAN

REVIEW OF MINING PLAN (PERIOD 2023-24 TO 2027-28)

LESSEE :	M/S DHARAMSEE MORARJI CAMICAL LTD.	
PROJECT :	PHADKI MOHGAON BAUXITE MINE	
	VILLAGE - PHADKI MOHGAON	TEHSIL - PARASWARA
	DISTRICT BALAGHAT	STATE MADHYA PRADESH
	MINE CODE - 07MPR392001	IBM REGN NO. - IBM/15580/2013
LEASE AREA :	40.468HECTARES	DATE OF SURVEY - 25-11-2023
SCALE :	1:1000	FOREST COMPARTMENT NO.1491

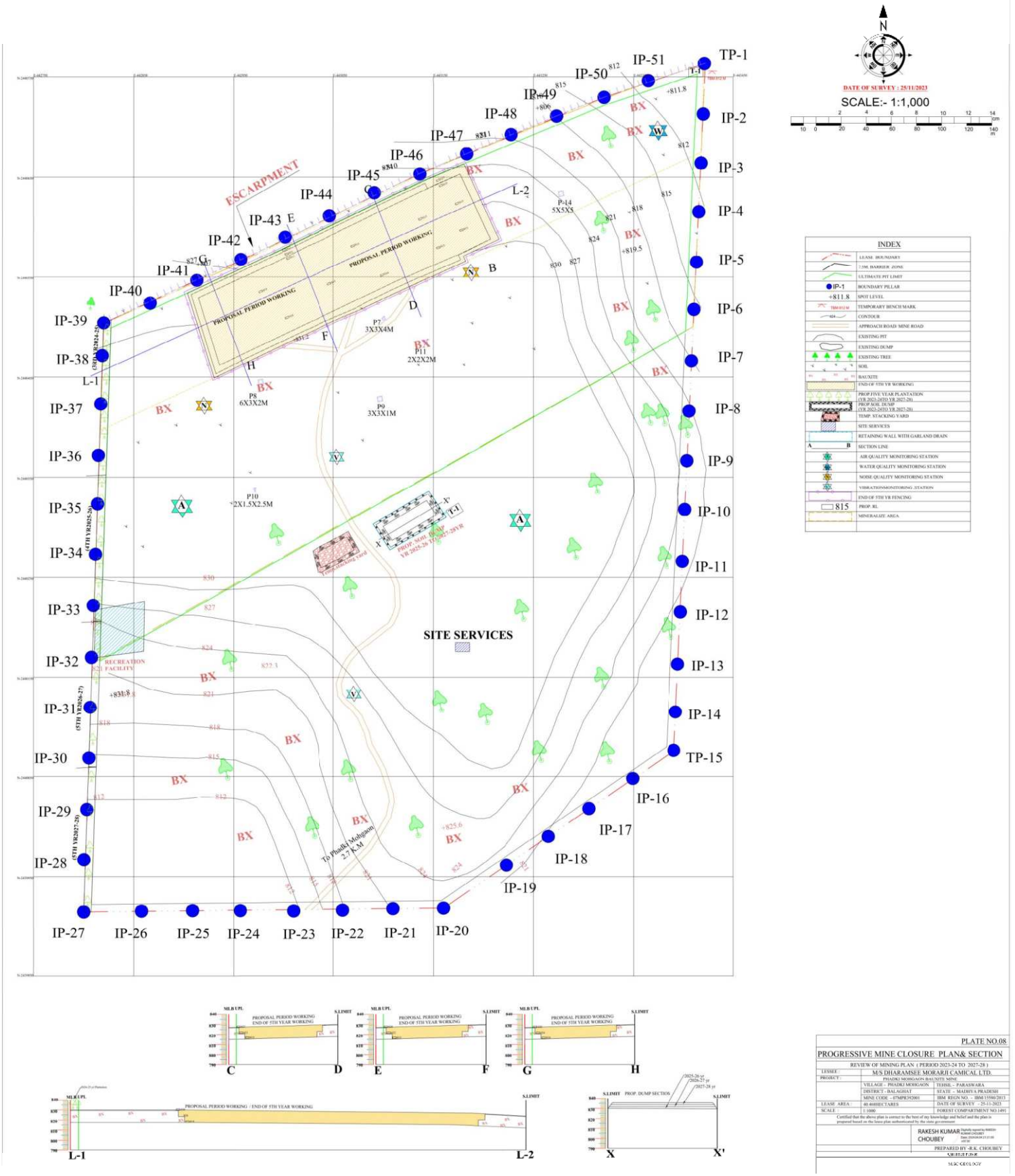
Certified that the above plan is correct to the best of my knowledge and belief and the plan is prepared based on the lease plan authenticated by the state government

RAKESH KUMAR CHOUBEY

PREPARED BY -R.K. CHOUBEY

Qualified Person

M.SC GEOLOGY


N
DATE OF SURVEY : 25/11/2023
SCALE:- 1:1,000
INDEX
LEASE BOUNDARY
7.5ML BARRIER ZONE
ULTIMATE PIT LIMIT
IP-1 BOUNDARY PILLAR
+811.8 SPOT LEVEL
TBM-812 M TEMPORARY BENCH MARK
824 CONTOUR
APPROACH ROAD/ MINE ROAD
EXISTING PIT
EXISTING DUMP
EXISTING TREE
SOIL
BAUXITE
END OF 5TH YR WORKING
PROP.FIVE YEAR PLANTATION (YR 2023-24TO YR 2027-28)
PROP.SOIL DUMP (YR 2023-24TO YR 2027-28)
TEMP. STACKING YARD
SITE SERVICES
RETAINING WALL WITH GARLAND DRAIN
A B SECTION LINE
AIR QUALITY MONITORING STATION
WATER QUALITY MONITORING STATION
NOISE QUALITY MONITORING STATION
VIBRATIONMONITORING STATION
END OF 5TH YR FENCING
815 PROP. RL
MINERALIZE AREA
TP-1
IP-2
IP-3
IP-4
IP-5
IP-6
IP-7
IP-8
IP-9
IP-10
IP-11
IP-12
IP-13
IP-14
TP-15
IP-16
IP-17
IP-18
IP-19
IP-20
IP-21
IP-22
IP-23
IP-24
IP-25
IP-26
IP-27
IP-28
IP-29
IP-30
IP-31
IP-32
IP-33
IP-34
IP-35
IP-36
IP-37
IP-38
IP-39
IP-40
IP-41
IP-42
IP-43
IP-44
IP-45
IP-46
IP-47
IP-48
IP-49
IP-50
IP-51
L-1
L-2
ESCARPMENT
PROPOSAL PERIOD WORKING
SITE SERVICES
RECREATION FACILITY
P7 3X3X4M
P8 6X3X2M
P9 3X3X1M
P10 2X1.5X2.5M
P11 2X2X2M
P-14 5X5X5
PROP. SOIL DUMP YR 2025-28 TO 2027-28YR
To Phadki Mohgaon 2.7 K.M.
BX
A
B
C
D
E
F
G
H
X
X'
MLR UPL
S.LIMIT
PROPOSAL PERIOD WORKING END OF 5TH YEAR WORKING
PROP. DUMP SECTION
2025-26 yr
2026-27 yr
2027-28 yr
PLATE NO.08
PROGRESSIVE MINE CLOSURE PLAN& SECTION
REVIEW OF MINING PLAN (PERIOD 2023-24 TO 2027-28)
LESSEE : M/S DHARAMSEE MORARJI CAMICAL LTD.
PROJECT : PHADKI MOHGAON BAUXITE MINE
VILLAGE - PHADKI MOHGAON
TEHSIL – PARASWARA
DISTRICT - BALAGHAT
STATE – MADHYA PRADESH
MINE CODE – 07MPE92001
IBM REGN NO. – IBM/15580/2013
LEASE AREA : 40.46HECTARES
DATE OF SURVEY - 25-11-2023
SCALE : 1:1000
FOREST COMPARTMENT NO.1491
Certified that the above plan is correct to the best of my knowledge and belief and the plan is prepared based on the lessee plan authenticated by the state government
RAKESH KUMAR CHOUBEY
PREPARED BY -R.K. CHOUBEY
CHIEF PLANNER
M.SC GEOLOGY

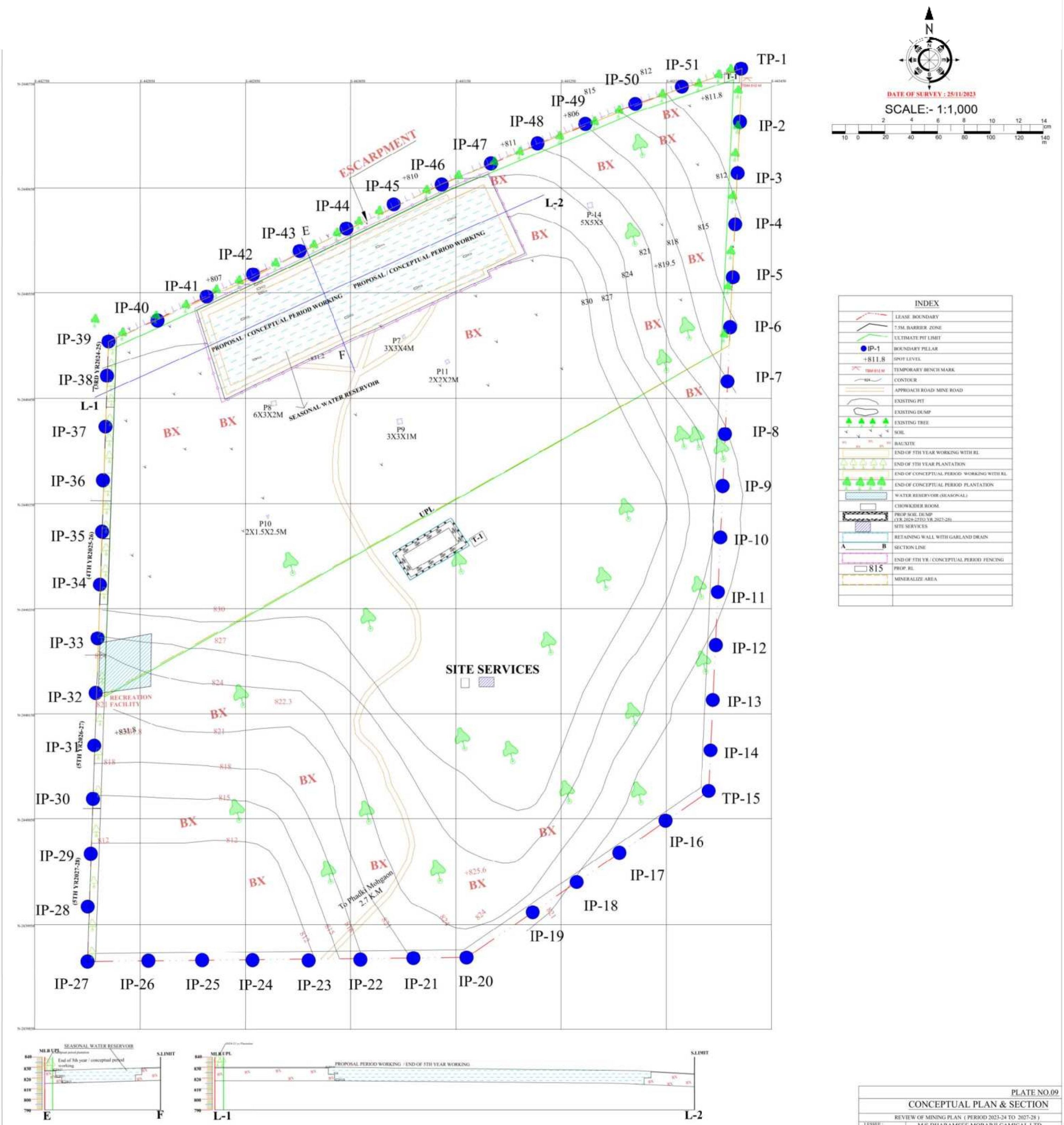


PLATE NO.09

CONCEPTUAL PLAN & SECTION

REVIEW OF MINING PLAN (PERIOD 2023-24 TO 2027-28)

LESSEE :	M/S DHARAMSEE MORARJI CAMICAL LTD.	
PROJECT :	PHADKI MOHGAON BAUXITE MINE	
	VILLAGE - PHADKI MOHGAON	TEHSIL - PARASWARA
	DISTRICT - BALAGHAT	STATE - MADHYA PRADESH
	MINE CODE - 07MPR392001	IBM REGN NO. - IBM/15580/2013
LEASE AREA :	40.460HECTARES	DATE OF SURVEY - 25-11-2023
SCALE :	1:1000	FOREST COMPARTMENT NO.1491

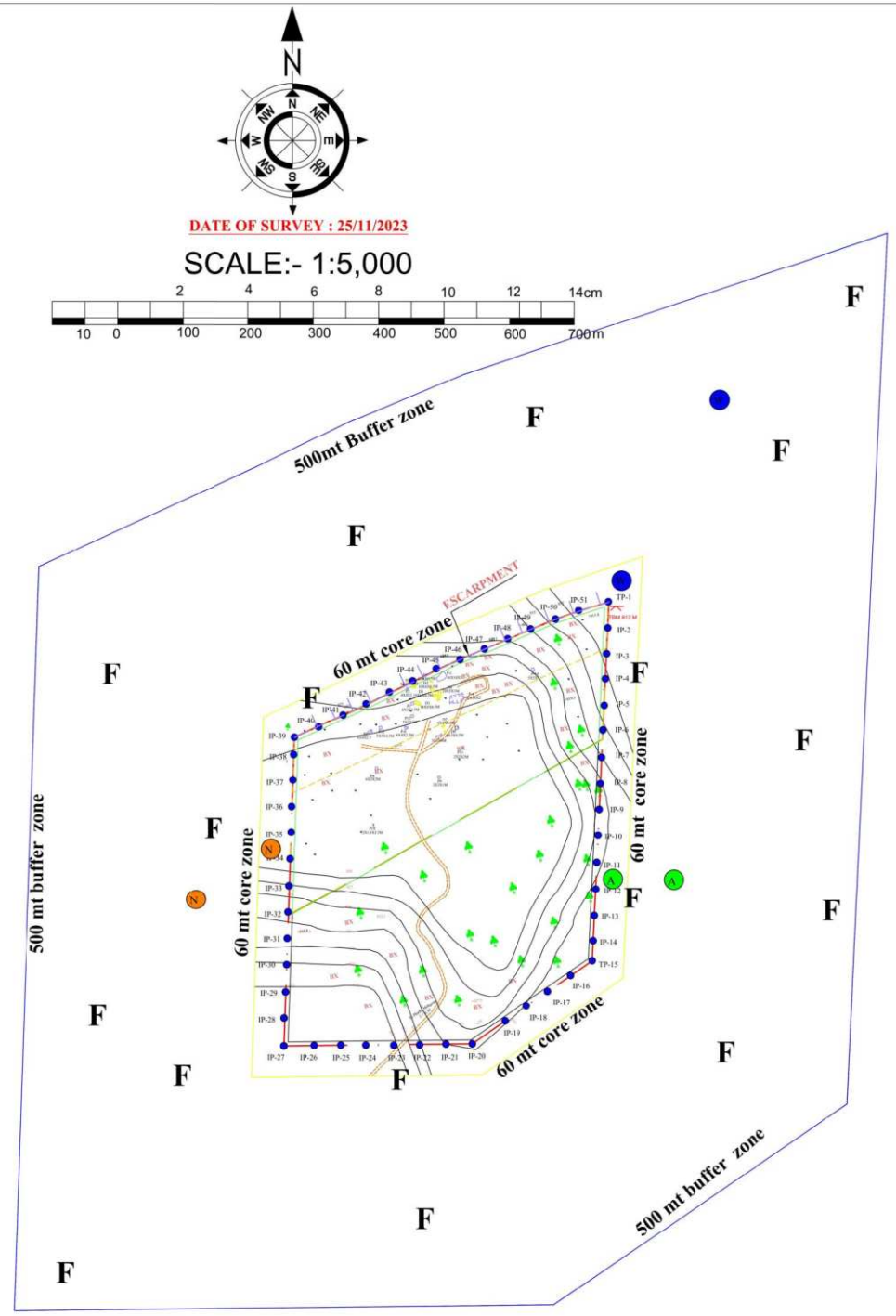
Certified that the above plan is correct to the best of my knowledge and belief and the plan is prepared based on the lease plan authenticated by the state government

RAKESH KUMAR CHOUBEY

PREPARED BY -R.K. CHOUBEY

Qualified Person

M.SC GEOLOGY



INDEX

	LEASE BOUNDARY
	7.5M. BARRIER ZONE
	ULTIMATE PIT LIMIT
IP-1	BOUNDARY PILLAR
+811.8	SPOT LEVEL
TBM 812 M	TEMPORARY BENCH MARK
824	CONTOUR
	APPROACH ROAD/ MINE ROAD
	EXISTING PIT
	EXISTING DUMP
	EXISTING TREE
	SOIL
A	AIR MONITORING STATION
N	NOISE MONITORING STATION
W	WATER MONITORING STATION

PLATE NO.10

ENVIRONMENT PLAN

REVIEW OF MINING PLAN (PERIOD 2023-24 TO 2027-28)

LESSEE :	M/S DHARAMSEE MORARJI CAMICAL LTD.	
PROJECT :	PHADKI MOHGAON BAUXITE MINE	
	VILLAGE - PHADKI MOHGAON	TEHSIL - PARASWARA
	DISTRICT - BALAGHAT	STATE - MADHYA PRADESH
	MINE CODE - 07MPR392001	IBM REGN NO. - IBM/15580/2013
LEASE AREA :	40.468HECTARES	DATE OF SURVEY - 25-11-2023
SCALE :	1:1000	FOREST COMPARTMENT NO.1491

Certified that the above plan is correct to the best of my knowledge and belief and the plan is prepared based on the lease plan authenticated by the state government

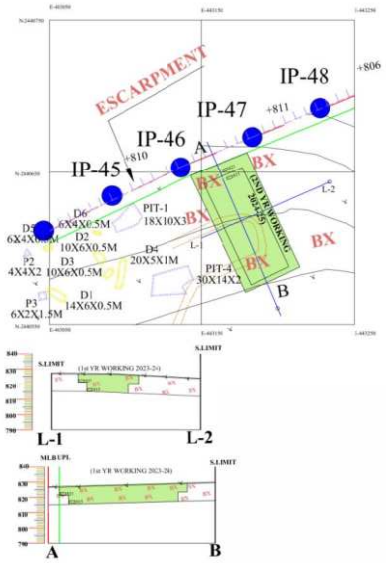
RAKESH KUMAR CHOUBEY

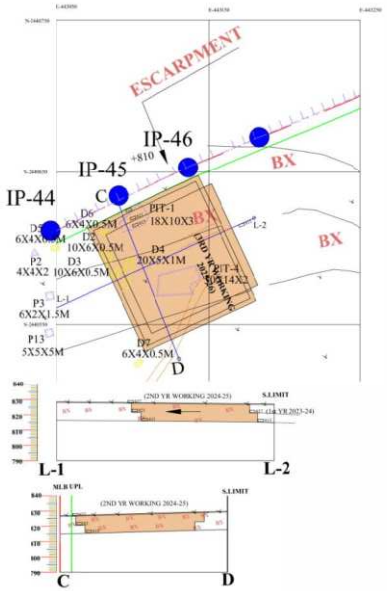
Digitally signed by RAKESH KUMAR CHOUBEY
Date: 2024.04.04 21:22:18 +05'30'

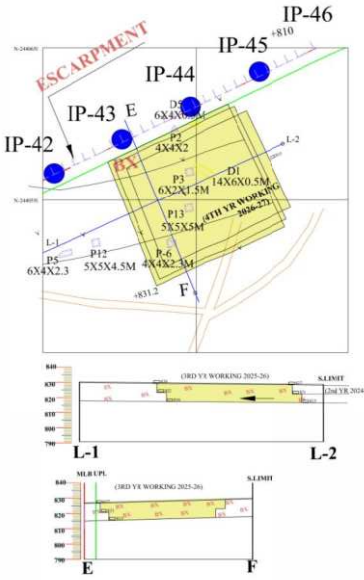
PREPARED BY -R.K. CHOUBEY

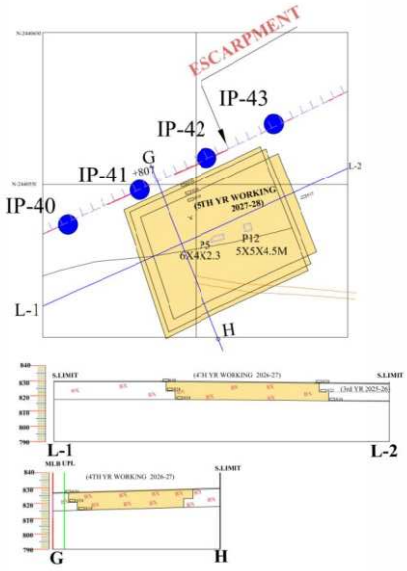
Qualified Person

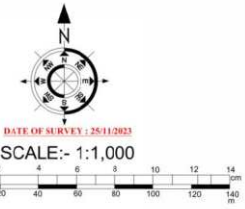
M.SC GEOLOGY











INDEX	
	LEASE BOUNDARY
	7.5M. BARRIER ZONE
	ULTIMATE PIT LIMIT
IP-1	BOUNDARY PILLAR
+811.8	SPOT LEVEL
TBM 812.50	TEMPORARY BENCH MARK
	CONTOUR
	APPROACH ROAD/ MINE ROAD
	EXISTING PIT
	EXISTING DUMP
	EXISTING TREE
	SOIL
	BAUXITE
	PROPOSED YEAR WISE WORKING (yr 2023-24)
	PROPOSED YEAR WISE WORKING (yr 2024-25)
	PROPOSED YEAR WISE WORKING (yr 2025-26)
	PROPOSED YEAR WISE WORKING (yr 2026-27)
	PROPOSED YEAR WISE WORKING (yr 2027-28)
A B	SECTION LINE
	ADVANCEMENT OF BENCH

PLATE NO.06 A

PIT LAY OUT PLAN & SECTION

REVIEW OF MINING PLAN (PERIOD 2023-24 TO 2027-28)

LESSEE :	M/S DHARAMSEE MORARJI CAMICAL LTD.		
PROJECT :	PHADKI MOHGAON BAUXITE MINE		
	VILLAGE - DIADKI MOHGAON	TEHSIL - PARASWARA	
	DISTRICT - BALAGHAT	STATE :- MADHYA PRADESH	
	MINE CODE - 075MP8392401	IBM REGN NO. - IBM/11580/2013	
LEASE AREA :	40.468HECTARES	DATE OF SURVEY : - 25-11-2023	
SCALE :	1:1000	FOREST COMPARTMENT NO.1491	

Certified that the above plan is correct to the best of my knowledge and belief and the plan is prepared based on the lease plan authenticated by the state government.

RAKESH KUMAR CHOUBEY

PREPARED BY -R.K. CHOUBEY

Qualified Person

M.SC GEOLOGY