

To,

Date: 03.01.2022

The Chairman,  
State Expert Appraisal Committee  
Guwahati, 781021  
Assam

Subject: Application for Environmental Clearance appraisal of  
Langkaijuri Stone Mahal, Village- Modertoli, P.S. Doboka  
District- Hojai, State- Assam. Area – 5.0 Ha

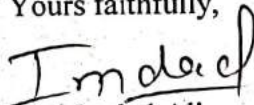
Respected Sir,

Kindly refer to the above subject in context of the same, we are hereby submitting  
Form 1, PFR, Approved Mining Plan along with requisite annexures.

Henceforth, we request you to kindly accept our proposal in procedural of EC  
Appraisal.

Thanking you.

Yours faithfully,

  
Shri Imdad Ali

Add. Village- Modertoli gaon, P.O Modertoli,  
P.S Doboka, District- Hojai, State- Assam

## **PROPOSAL**

("B2" Category of 1 (a) column 4 of EIA Notification dated 14.06.2006 and its subsequent amendment vide S.O. 3977(E) dated 14<sup>th</sup> Aug 2018) and MoEF&CC office memorandum dated: 12<sup>th</sup> December, 2018)

***Sector: 1(a) Mining of Minerals***

### **NAME OF PROJECT**

**Langkaijuri Stone Mahal,  
Village- Modertoli, P.S. Doboka District- Hojai, State-  
Assam. Area – 5.0 Ha**  
Production Capacity of Stone Mining: 30000 Cu.m For 1 Year

### **PROJECT PROPONENT**

**Shri Imdad Ali  
Add. Village- Modertoli gaon, P.O Modertoli, P.S Doboka,  
District- Hojai, State- Assam**

### **ENVIRONMENTAL CONSULTANT** **GEOGREEN ENVIRO HOUSE PVT. LTD.**

*(An ISO 9001: 2015 Certified and QCI/ NABET Accredited Co.)*

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## Form-2

## APPLICATION FOR PRIOR ENVIRONMENTAL CLEARANCE

S. No.	Item	Details		
1.	<p>Whether it is a violation case and application is being submitted under Notification No. S.O.804(E) dated 14.03.2017 ?</p> <p><b>Details of Project:</b></p> <p>(a) Name of the project(s)</p> <p>(b) Name of the Company / Organisation</p> <p>(c) Registered Address</p> <p>(d) Legal Status of the Company</p>	<p>No</p> <p>Langkaijuri Stone Mahal</p> <p>SHRI IMDAD ALI</p> <p>Langkaijuri Stone Mahal, Village- Modertoli Gaon, P.O Modertoli, P.S Doboka, District-Hojai, Assam,, Hojai, Assam-782435</p> <p>Private</p>		
2.	<p><b>Address for the correspondence:</b></p> <p>(a) Name of the Applicant</p> <p>(b) Designation (Owner/ Partner/ CEO)</p> <p>(c) Address</p> <p>(d) Pin code</p> <p>(e) E-mail</p> <p>(f) Telephone No.</p> <p>(g) Fax No.</p> <p>(h) Copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency .</p>	<p>Imdad Ali</p> <p>Proprietor</p> <p>H.No 11, Purbanchal Path Mathura Nagar, Dispur, Guwahati-06, Assam,, Iankacircle, Hojai, Assam-781001</p> <p>781001</p> <p>langkaijuristone653@gmail.com</p> <p>0-</p> <p>Annexure-Uploaded Copy of documents in support of the competence/authority</p>		
3.	<p><b>Category of the Project/Activity as per Schedule of EIA Notification, 2006:</b></p> <p>(a) Major Project/Activity</p> <p>(b) Minor Project/Activity</p> <p>(c) Category</p> <p>(d) Proposal Number</p> <p>(e) Master Proposal Number(Single Window)</p> <p>(f) EAC concerned (for category A Projects only)</p> <p>(g) Project Type</p>	<p>1(a) Mining of minerals</p> <p>NIL</p> <p>B2</p> <p>SIA/AS/MIN/248729/2021</p> <p>SW/248723/2021</p> <p>Non-Coal Mining</p> <p>Fresh EC</p>		
4.	<p><b>Location of the Project:</b></p> <p>(a) Plot/Survey/Khasra No.</p> <p>(b) Pincode</p> <p>(c) Bounded Latitudes (North)</p> <p>From</p> <p>Degree</p> <p>Minutes</p> <p>Second</p> <p>From</p> <p>Degree</p> <p>Minutes</p> <p>Second</p> <p>(d) Bounded Longitudes (East)</p> <p>From</p> <p>Degree</p> <p>Minutes</p> <p>Second</p> <p>From</p> <p>Degree</p> <p>Minutes</p> <p>Second</p> <p>(e) Survey of India Topo Sheet No.</p> <p>(f) Uploaded Topo Sheet File</p> <p>(g) Maximum Elevation Above Means Sea Level(AMSL)</p> <p>(h) Uploaded (kml) File</p> <p>(i) Distance of Nearest HFL from the project boundary within the study area</p> <p>(j) Seismic Zone</p>	<p>Langkaijuri Stone Mahal, Village- Modertoli, P.S.Do</p> <p>782435</p> <p>26</p> <p>09</p> <p>2.73</p> <p>26</p> <p>09</p> <p>0.65</p> <p>92</p> <p>49</p> <p>33.89</p> <p>92</p> <p>49</p> <p>38.07</p> <p>83B/16</p> <p>Copy of Topo Sheet File</p> <p>316</p> <p>Copy of Kml File</p> <p>0.00</p> <p>5</p>		
5.	<p>(a) Number of States in which Project will be Executed</p> <p>(b) Main State of the project</p>	<p>1</p> <p>Assam</p>		
Details of State(s) of the project				
S. No.	State Name	District Name	Tehsil Name	Village Name



(1.)	Assam	Hojai	No Data	Modertoli Gaon		
6.	<b>Details of Terms of Reference (ToR):</b>					
7.	<b>Details of Public Consultation:</b> (a) Whether the Project Exempted from Public Hearing?   Yes (b) Reason   B2 Category Project (c) Supporting Document   Copy of Supporting Document					
8.	<b>Details of Project Configuration/Product:</b>					
8.1. Project Configuration						
S. No.	Plant/Equipment /Facility	Configuration	Remarks			
(1.)	00	00	00			
8.2. Product						
S. No.	Product/Activity (Capacity/Area)	Quantity	Unit	Other Unit	Mode of Transport / Transmission of Product	Other Mode of Transport / Transmission of Product
(1.)	Quartzite Rock/Stone Mining/30000CUM /Annum	30000	Others	CUM	Road	
9.	<b>In case of Expansion / Modernisation / One Time Capacity Expansion (only for Coal Mining) / Expansion under Clause 7(ii) / Modernisation under Clause 7(ii) / Change of Product Mix under Clause 7(ii):</b> Details Not Applicable					
9.1.	<b>Details of Consent to Operate</b> (i) Whether Consent to operate obtained ?   NA (ii) Copies of all Consent to operate obtained since inception   NA (iii) Date of Issue   N/A (iv) Valid Upto   N/A (v) File No.   NA (vi) Application No.   NA (vii) Copy of Consent to operate valid as on date   NA					
10.	<b>Project Cost:</b> (a) Total Cost of the Project at current price level (in crores)   46005000 (b) Funds Allocated for Environment Management (Capital) (in crores)   0.06 (c) Funds Allocated Towards ESC (Entrepreneur Social Responsibility) (in crores)   00 (d) Funds Allocated for Environment Management Plan (EMP) (Recurring per Annum) (in crores)   00 (e) Funds Allocated for Environment Management Capital(%)   0.00					
11.	Whether project attracts the General Condition specified in the Schedule of EIA Notification ?   No					
12.	Whether project attract the Specific Condition specified in the Schedule of EIA Notification ?   No					
13.	<b>Raw Material / Fuel Requirement:</b> (a) Proposed quantity of raw material/fuel   30000 (b) Existing quantity of raw material/fuel   N/A (c) Total quantity of raw material/fuel   30000					
13.1. Raw Material / Fuel Profile						

S. No.	Raw Material / Fuel	Quantity	Unit	Other Unit	Source (In case of Import, please specify country and Name of the port from which Raw Material / Fuel is received)	Mode of Transport	Other Mode of Transport	Distance of Source from Project Site (In Kilometres) (In case of Import, distance from the port from which the raw material / fuel is received)	Type of Linkage	Other Type of Linkage	Uploaded Copy of Linkage
(1.)	Stone	30000	Others	CUM	Quartzite Rock Quarry	Road		0.00	Linkage		Copy of Linkage

**Baseline Data :**

14. (a) Period of Base Line Data Collection | FROM 01 Jan 2022 To 01 Jan 2022  
(b) Season | Winter

**14.1. No. of ambient Air Quality (AAQ) Monitoring Locations : 00**

S. No.	Criteria Pollutants	Other Criteria Pollutants	Unit	Maximum Value	Minimum Value	98 Percentile Value	Prescribed Standard
(1.)	PM2.5		Micro Gram per Meter Cube	00	00	00	60
(2.)	SO2		Micro Gram per Meter Cube	00	00	00	80
(3.)	PM10		Micro Gram per Meter Cube	00	00	00	100
(4.)	NOx		Micro Gram per Meter Cube	00	00	00	80

**14.2. No. of Ground Water Monitoring Locations : 00**

S. No.	Criteria Pollutants	Other Criteria Pollutants	Heavy Metal	Unit	Other Unit	Maximum Value	Minimum Value	Desirable Limit	Maximum Permissible Limit
(1.)	Total Hardness			mg/l		00	00	00	00
(2.)	Chlorides			mg/l		00	00	00	00
(3.)	Fluoride			mg/l		00	00	00	00
(4.)	pH			NA		00	00	00	00
(5.)	TSS			mg/l		00	00	00	00
(6.)	Heavy Metals		Pb	mg/l		00	00	00	00
(7.)	TDS			mg/l		00	00	00	00

**14.3. No. of Surface Water Monitoring Locations : 00**

S. No.	Criteria Pollutants	Other Criteria Pollutants	Unit	Other Unit	Maximum Value	Minimum Value	Classification of Inland water body
(1.)	pH		NA		00	00	B
(2.)	DO		mg/l		00	00	B
(3.)	BOD		mg/l		00	00	B
(4.)	COD		mg/l		00	00	B

**14.4. No. of Ambient Noise Monitoring Locations : 00**

S. No.	Parameter	Unit	Maximum Value	Minimum Value	Prescribed Standard
(1.)	Leq(Day)	A-weighted decibels(dB(A))	00	00	65
(2.)	Leq(Night)	A-weighted decibels(dB(A))	00	00	45

**14.5. No. of Soil Sample Monitored Locations : 00**

S. No.	Parameter	Unit	Other Unit	Maximum Value	Minimum Value
(1.)	Electric Conductivity	Millisiemens per Centimetre		00	00



(2.)	pH			00	00
(3.)	N(Nitrogen)	Milligram per Litre		00	00
(4.)	K(Potassium)	Milligram per Litre		00	00
(5.)	P(Phosphorus)	Milligram per Litre		00	00

14.6.	<b>Details of Ground Water Table:</b> (a)Range of Water Table Pre-Monsoon Season (Meters Below Ground Level (m bgl)) From 0.01 To 9.40 (b)Range of Water Table Post-Monsoon Season (Meters Below Ground Level (m bgl)) From 0.56 To 8.26 (c)Whether Ground Water Intersection will be there ? No				
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## 15. Details of Water Requirement (During Operation)

S. No.	Source	Source Other	Required Quantity	Distance from Source	Copy of Permission from Competent Authority	Mode of Transport	Other Mode of Transport	Method of Water Withdrawal	Other Method of Water Withdrawal	Letter No.	Date of Issue	Permitted Quantity
(1.)	Others	LOCAL VENDOR	1.085	5.5	Not Applicable	modeOthers	PUBLIC TRANSPORT	Others	TANKERS	NA	01 Jan 2022	1.085

15.1.	(a)Whether Desalination is proposed	No
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## 16. Waste Water Management(During Operation)

S. No.	Type/Source	Quantity of Waste Water Generated (Kilolitre per Day)	Treatment Capacity (Kilolitre per Day)	Treatment Method	Mode of Disposal	Other Mode of Disposal	Quantity of Treated Water Used in Recycling/Reuse (Kilolitre per Day)	Quantity of Discharged Water (Kilolitre per Day)
(1.)	00	00	00	00	Discharge into Surface Water Body			00

16.1.	(a)Total Waste Water Generation	0
	(b)Total Discharged Water	0
	(c)Total Reused Water	0

## 17. Solid Waste Generation/Management

S. No.	Name of Waste	Item	Other Item	Quantity per Annum	Unit	Distance from Site(KM)	Mode of Transport	Other Mode of Transport	Mode of Disposal	Other Mode of Disposal
(1.)	NA	Municipal Solid Waste		00	Tons	00	Road		Others	NO SUCH SOLID WASTE IS ENVISAGED

18.	
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## 18.1. Air Quality Impact Prediction

S. No.	Criteria Pollutants	Other Criteria Pollutants	Unit	Baseline Concentration	Distance GLC	Incremental Concentration	Total GLC	Prescribed Standard
(1.)	PM10		Microgram per Meter Cube	00	00	00	00	00
(2.)	SO2		Microgram per Meter Cube	00	00	00	00	00
(3.)	NOx		Microgram per Meter Cube	00	00	00	00	00
(4.)	PM2.5		Microgram per Meter Cube	00	00	00	00	00

## 18.2. Stack Details

S. No.	Source	Fuel	Stack Height(m)	Stack Diameter(m)	Pollutants	Other Pollutants	Emission (GLS)
(1.)	00	00	00	00	PM10		00

19.	<b>Power Requirement:</b> (a)Quantity (Kilo Volt Amps (kVA)) 00 (b)Source 00 (c)Uploaded Copy of Agreement Not Applicable (d)Standby Arrangement (Details of DG Sets) 00 (e)Stack Height (in m) 00						
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20.	<b>Land Ownership Pattern:</b> (a)Forest Land 00 (b)Private Land 00						
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	(c) Government Land	5.0	
	(d) Revenue Land	00	
	(e) Other Land	00	
	<b>Total Land</b>	<b>5.0</b>	
21.	<b>Present Land Use Breakup of the Study Area in Ha:</b>		
	(a) Agriculture Area	00	
	(b) Waste/Barren Land	5.0	
	(c) Grazing/ Community Land	00	
	(d) Surface Water Bodies	00	
	(e) Settlements	00	
	(f) Industrial	00	
	(g) Forest	00	
	(h) Mangroves	00	
	(i) Marine Area	00	
	(j) Others : NA	00	
	<b>Total</b>	<b>5</b>	
22.	<b>Land Requirement for Various Activities</b>		
<b>S. No.</b>	<b>Description of Activity / Facility / Plant / Others</b>	<b>Others</b>	<b>Land Requirement</b>
(1.)	Others	NA	00
	<b>Total</b>		0
23.	<b>Ecological and Environmental Sensitivity (Within 10 Km):- WLS-Wild Life Species; NPA-Notified Protected Area; ESAs-Eco Sensitive Areas; ESZs-Eco Sensitive Zones :</b>		
23.1.	<b>Details of Ecological Sensitivity :</b>		
<b>S. No.</b>	<b>Details of Ecological Sensitivity</b>	<b>Name</b>	<b>Distance from the Project (Km)</b>
(1.)	Critically Polluted Area	00	00
(2.)	WLS	00	00
(3.)	NPA	00	00
(4.)	ESAs	00	00
(5.)	ESZs	00	00
(6.)	Corridors	00	00
(7.)	Wildlife Corridors	00	00
23.2.	<b>Details of Environmental Sensitivity :</b>		
<b>S. No.</b>	<b>Details of Environmental Sensitivity</b>	<b>Other Details of Environmental Sensitivity</b>	<b>Name</b>
(1.)	Forest		00
(2.)	Defence Installations		00
(3.)	Others	NA	00
(4.)	Archaeological Sites		00
23.3.	(a) Whether Noc / Permission from the competent authority is required? No		
	(b) Whether NBWL recommendation is required? No		
24.	<b>Forest Land:</b> Whether any Forest Land Involved? No		
25.	<b>Tree Cutting:</b> (a) No. of Trees Cut for the Project (If Forest Land not Involved) 00 (b) Details of Tree Cutting and Planting of Trees Not Applicable		
26.	<b>Land Acquisition Status:</b> (a) Acquired Land(Ha) 00 (b) Land yet to be acquired(Ha) 00 (c) Status of Land acquisition If not acquired 00		



27.	<b>Rehabilitation and Resettlement (R&amp;R):</b>	
	(a)No. of Villages	00
	(b)No. of Households	00
	(c)No. of PDFs (Project Displaced Families)	00
	(d)No. of PAFs (Project Affected Families)	00
	(e)Funds Allocated for R&R(in Rs)	00
	(f)Status of R&R	Yet To Start
28.	<b>Details of Presence of Schedule-I Species:</b>	
	(a)Whether there is Presence of Schedule-I Species ?	No
	(b)Whether conservation plan for Schedule-I Species has been prepared ?	No
	(c)Whether conservation plan for Schedule-I Species has been approved by competent authority ?	No
29.	<b>Details of Presence of Water Bodies in Core Area:</b>	
	(a)Whether there is Presence of Water Bodies in Core Area ?	No
	(b)Whether there is Diversion Required ?	No
	(c)Whether permission has been obtained from competent authority ?	No
30.	<b>Details of Presence of Water Bodies in Buffer Area:</b>	
	(a)Whether there is Presence of Water Bodies in Buffer Area ?	Yes
	(i)Details of Water Bodies in Buffer Area	KOPILI
	(ii)Direction of Water Bodies in Buffer Area	West
	(iii)Distance of Water Bodies in Buffer Area	10.0
31.	<b>Manpower Requirement:</b>	
	(a)Permanent Employment-During Construction	00
	(b)Permanent Employment-During Operation	31
	(c)Temporary Employment- During Construction	00
	(d)Temporary Employment- During Operation	00
	(e)No. of working days	250
	(f)Total Manpower	31
32.	<b>Green Belt in Ha:</b>	
	(a)Total Area of Green Belt (in hectare)	1.65
	(b)Percentage of Total Project Area	33.00
	(c)No. of Plants to be Planted	500
	(d)Funds Allocated for Plantation	600000
	(e)Uploaded Green Belt plan	Copy of Green Belt Plan
33.	<b>Project Benefits</b>	
S. No.	Type of Project Benefits	Details of Project Benefits
(1.)	Social	DIRECT AND INDIRECT EMPLOYMENT

**34. CRZ Specific Details : Not Applicable**

**35. Sector Specific Details For Non-Coal Mining**

S. No.	Item	Details
1.	<b>No. of Mineral(s) to be Mined : 1</b>	
S. No.	Mineral(s) to be Mined	Major or Minor Mineral
(1.)	QUARTZITE ROCK/BOULDER STONE	Minor
2.	Mine Capacity in ROM (Run of Mine)	200000
3.	Uploaded 500 meters Cluster Certificate from State Mines and Geology in case of minor minerals	Copy of 500 meters Cluster Certificate from State Mines and Geology
4.	<b>Mining Plan:</b>	
	(a)Approval Letter No.	GM/MM/86-B(40)/PT-VIII/2676-80
	(b)Date of Approval	18 Nov 2021
	(c)Approved Letter	Copy of Approved Letter
	(d)Approved By State Mining and Geology Department	Directorate
	(e)Approved Mining Lease Area	5.0
	(f)Approved Capacity	30000



<b>Technical Details:</b>					
5.	(a) Total Geological Reserves (Million Ton)	2500000			
	(b) Mineable Reserves (Million Ton)	00			
	(c) Extractable Reserves (Million Ton)	150000			
	(d) Percent(%) of Extraction	00			
	(e) Grade of Coal / Ore / Mineral	00			
	(f) Stripping Ratio	00 : 00			
	(g) Category of Gaseousness (Only for Coal Mining, Others may Write NA)	00			
	(h) Average Gradient (Degree)	00			
	(i) Mining Method	Opencast			
	(j) Life of Mine (Years)	5			
<b>Details of Beneficiations:</b>					
6.	(a) Whether it is proposed to install beneficiation plant/Coal washery within the mining lease area	No			
	(b) Whether it is proposed to install crusher within the mining lease area	No			
<b>Details of Seams:</b>					
7.	(a) Whether details of seam applicable	No			
<b>Details of Mining Lease:</b>					
8.	(a) Mining Lease Area (in Hectare)	5.0			
	(b) Whether obtained Letter of Intent (LOI) from the state government ?	Yes			
	(i) Copy of Letter of Intent	Copy of Letter of Intent			
	(ii) Date of issue of LOI	27 Sep 2021			
	(iii) Validity of LOI	5			
	(iv) Reference No. of LOI	5001-02			
	(c) Whether Lease Deed Executed ?	No			
	(i) Reason thereof	LEASE YET TO START			
	(d) Whether Lease Deed Renewed ?	No			
	(i) Reason thereof	LEASE YET TO START			
<b>OB (Over Burden) Management:</b>					
<b>(a) Details of External Dumps:</b>					
9.	(i) No. of OB Dumps	00			
	(ii) Total Area (in Hectare)	00			
	(iii) Height (in meter)	00			
	(iv) Quantity (in Million Cubic meter)	00			
	(v) No. of year back fill up	00			
<b>(b) Details of Internal Dumps:</b>					
	(i) No. of Internal Dumps	00			
	(ii) Total Area (in Hectare)	00			
	(iii) Height (in meter)	00			
	(iv) Quantity (in Million Cubic meter)	00			
<b>Details of Topsoil Management:</b>					
10.	(a) Quantity of Topsoil excavated during the entire life of the mine (in Million Cubic metre)	00			
	(b) Quantity of Topsoil proposed for utilization for reclamation during the entire life of the mine (in Million Cubic metre)	00			
	(c) Quantity of Topsoil proposed for utilization for other activities during the entire life of the mine (in Million Cubic metre)	00			
<b>Details of Final Mine Void:</b>					
11.	(a) Area (in Hectare)	00			
	(b) Depth (in meter)	00			
	(c) Volume (in Million Cubic meter)	00			
<b>Details of Quarry:</b>					
12.	(a) Final Void of 00 (hectare) at a Depth of 00 meter which is Proposed to be Converted Into a Water Body.				
	(b) Total Quarry Area (ha)	00			
<b>Details of Transportation:</b>					
13.	(a) In Pit/Underground to Surface	00			
	(b) Surface to Siding/Loading	00			
	(c) Transportation / Conveyor Details	00			
<b>14. Details of Land Usage (Pre-Mining)</b>					
S. No.	LAND USE	Other LAND USE	WITHIN ML AREA (Hectare)	OUTSIDE ML AREA (Hectare)	TOTAL (Hectare)
	TOTAL		0	0	0

(1.)	AGRICULTURE LAND		00	00	0
(2.)	FOREST LAND		00	00	0
(3.)	GRAZING LAND		00	00	0
(4.)	SURFACE WATER BODIES		000	00	0
(5.)	OTHERS(Specify)	NA	00	00	0
(6.)	SETTLEMENTS		00	00	0
(7.)	WASTE LAND		00	00	0
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>0</b>

**15. Details of Land Usage (Post-Mining)**

S. No.	LAND USE	Other LAND USE	Plantation (ha)	Water Body (ha)	Public Use (ha)	Undisturbed (ha)	Total
(1.)	EXCAVATION/QUARRY		00	00	00		0
(2.)	TOP SOIL STORAGE		00	00	00		0
(3.)	EXTERNAL OB DUMPS		00	00	00		0
(4.)	INTERNAL OB DUMPS		00	00	00		0
(5.)	ROADS		00	00	00		0
(6.)	BUILT UP AREA (COLONY/OFFICE)		00	00	00		0
(7.)	VIRGIN AREA		00	00	00		0
(8.)	GREEN BELT		00	00	00		0
(9.)	Other	NA	00	00	00		0
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Details of Reclamation:****Total Afforestation Plan shall be Implemented Covering of Mining.****This will Include:**

16. (a) External OB Dump (in hectare) 00  
 (b) Internal Dump (in hectare) 00  
 (c) Quarry (in hectare) 00  
 (d) Safety Zone (in hectare) 00  
 (e) Final Void of 00 (hectare) at a Depth of 00 meter which is Proposed to be Converted into a Water Body.  
 (f) Density of Tree Plantation per ha (in no.) 00  
 (g) Others in ha (such as Excavation Area along ML Boundary, along Roads and Infrastructure, Embankment Area and in Township Located Outside the Lease etc) 00  
 (h) Total afforestation plant (in hectare) 00

**17. Status of progressive Mining Closure Plan:****Details Not Applicable****18. Details of Actual Coal/ ORE Production vis-a-vis Sanctioned Capacity since the Inception:**

S. No.	Financial Year	Sanctioned Capacity as per EC (MTPA)	Sanctioned Capacity as per CTO	Sanctioned Capacity as per approved mining plan	Actual Production	Excess Production Beyond the EC / CTO / Mining Plan Sanctioned Capacity (MTPA)
(1.)	00	00	00	00	00	00

S. No.	Item	Details
36.	<b>Details of Court Cases:</b> (a) Whether there is any Court Cases pending against the project and/or land in which the project is proposed to be set up?	No
37.	<b>Details of Direction Issued under Environment (Protection) Act / Air (Prevention &amp; Control of Pollution) Act / Water (Prevention &amp; Control of Pollution) Act:</b> (a) Whether any Direction Issued under EPA Act/Air Act/Water Act?	No

**Details of EIA Consultant:**

38. (a) Have you hired Consultant for preparing document? Yes  
 (i) Accreditation No. NABET/EIA/2124/RA0215  
 (ii) Name of the EIA Consultant GEOGREEN ENVIRO HOUSE PVT LTD  
 (iii) Address C-1/20, VIRAJ KHAND GOMTI NAGAR, LUCKNOW  
 (iv) Mobile No. 9161202020  
 (v) Landline No. 9415215163  
 (vi) Email Id vkm.geo@gmail.com



(vii)Category of Accreditation (viii)Sector of Accreditation (ix)Validity of Accreditation (x)Uploaded Certificate of Accreditation certified by QCI/NABET	B Non-Coal Mining 24 Feb 2024 Copy of Certificate of Accreditation		
39. <b>Documents to be Attached:</b> (a)Upload Copy of EIA/EMP(Text) (b)Upload Copy of EIA/EMP(Annexures) Report (c)Upload Copy of EIA/EMP(Maps/Plans/Figures only) (b)Uploaded Copy of Risk Assessment Report (c)Uploaded Copy of Feasibility Report/ Detailed Project Report(DPR) /Detailed Engineering Report /Detailed Conceptual Plan /Approved Mining Plan (d)Uploaded Copy of Final Layout Plan (e)Uploaded Cover Letter (f)Uploaded Copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency (g)Uploaded Copy of District Survey Report (h)Uploaded Copy of Replenishment Study Report & Baseline Survey Data (i)Uploaded Additional File (j)Uploaded Proposal Presentation (To be given in EAC meeting) (f)Uploaded Updated Form1	 Copy of EIA/EMP(Text) Copy of EIA/EMP(Annexures) Copy of EIA/EMP(Maps/Plans/Figures only) Copy of Risk Assessment Copy of Feasibility Report/ Detailed Project Report(DPR) /Detailed Engineering Report /Detailed Conceptual Plan /Approved Mining Plan Copy of Final Layout Plan Copy of Cover Letter Copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency NA NA NA NA NA		
<b>Essential Details Sought</b>			
S. No.	EDS Sought Date	EDS Sought	Letter
NO Record			
<b>Additional Details Sought</b>			
S. No.	ADS Sought Date	ADS Sought	Letter
NO Record			

**Undertaking**

I hereby give undertaking that the data and information given in the application and enclosures are true to be best of my knowledge and belief. And I am aware that if any part of the data and information found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity/ construction/ expansion has since been taken up.

Name of Applicant	Imdad Ali
Designation	Proprietor
Name of Company (Applicant Name should not be given here)	SHRI IMDAD ALI
Address	Langkaijuri Stone Mahal, Village- Modertoli Gaon, P.O Modertoli, P.S Doboka, District-Hojal, Assam

Print

### 1. Executive summary:

S. No	Information	Details																		
1.	Project Name	Langkaijuri Stone Mahal, Village- Modertoli, Gaon P.O . Modertoli P.S.Doboka District- Hojai, State- Assam. Area – 5.0 Ha																		
2.	Project Proponent	Imdad Ali Village- H.No.11 Purbanchal Path ,Mathura Nagar, Dispur , Guwathi-06, Assam																		
3.	Location	<table><tr><th>Points</th><th>Latitude (N)</th><th>Longitude (E)</th></tr><tr><td>A</td><td>26°9'2.73"</td><td>92°49'33.89"</td></tr><tr><td>B</td><td>26°8'58.75"</td><td>92°49'30.04"</td></tr><tr><td>C</td><td>26°08'51.99"</td><td>92°49'35.10"</td></tr><tr><td>D</td><td>26°8'56.19"</td><td>92°49'39.67"</td></tr><tr><td>E</td><td>26°9'0.65"</td><td>92°49'38.07"</td></tr></table>	Points	Latitude (N)	Longitude (E)	A	26°9'2.73"	92°49'33.89"	B	26°8'58.75"	92°49'30.04"	C	26°08'51.99"	92°49'35.10"	D	26°8'56.19"	92°49'39.67"	E	26°9'0.65"	92°49'38.07"
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	E	26°9'0.65"	92°49'38.07"																	
	Toposheet No.	83B/16.																		
	Village	Modertoli																		
	Tehsil	Hojai																		
	District	Hojai																		
	State	Assam																		
4.	Name of the Mineral Mined	Quartzite Rock																		
5.	Capacity of Production	30,000 Cu.m per year																		
6.	Drilling Blasting	Not applicable																		
7.	Method of Mining	Opencast Semi mechanized method of mining with drilling and blasting																		
8.	Water requirements and source	Water required for the project per day will be around 1.6 KLD (0.465 KLD drinking purpose + 0.12 KLD dust suppression and 1 KLD for plantation) of water supply will be from the village through tanker. <i>River water will not be used for any purpose.</i>																		
9.	Lease Period	5 Years																		



## **2.0 INTRODUCTION OF THE PROJECT/ BACKGROUND INFORMATION**

### **2.1 Identification of the project and project proponent.**

<b>Name of project</b>	: Langkaijuri Stone Mahal
<b>Location of Project</b>	: Village- Modertoli, Gaon P.O . Modertoli P.S.Doboka District- Hojai, State- Assam. Area
<b>Production</b>	: Total Saleable Quartzite Rock is 50,000 Cu.m per year
<b>ML area</b>	: 5.0 Ha. (Government Land)

### **Name and address of the project proponent:**

Imdad Ali

Village- H. No.11 Purbanchal Path ,Mathura Nagar, Dispur , Guwathi-06, Assam

### **2.2 Brief description of the nature of project**

It has been proposed to extract Quartzite Rock from the mine site. Methods of mining will be open cast manual and semi-mechanized. Mining will be confined to the allotted lease area which lies at Langkaijuri Stone Mahal, Village- Modertoli, P.S.Doboka District- Hojai, State- Assam. Area – 5.0 Ha from which approximately 30,000 cum per year of Quartzite Rock will be excavated.

### **2.3 Need of the project and its importance to the country and or region:**

Quartzite Rock is used as building material. Its strength and long life makes it suitable for a number of purposes; it had become a major source for various types of construction works.

### **2.4 Demand supply Gap:**

As Quartzite Rock is used as raw building material construction of buildings, dams, bridges, tunnels and roads., the demand of Quartzite Rock is increasing day by day. In past, a demand was not too much but at this time by increasing demands of it, we have to increase the production of Quartzite Rock. At present, the demand is more than the supply.

### **2.5 Imports vs indigenous production**

There will be no import for the project. There will be indigenous inputs in the entire mining activity.

## 2.6 Export Possibility:

In Nagaon district of Assam, various Quartzite Rock mines are there. There is abundance of Quartzite Rock buried in the area; it had become a major source. Most of the mineral mined here circulated in nearby areas.

## 2.7 Domestic / Export Markets:

Only 5- 10% of the total production is used locally. Remaining 90-95% of the production is circulated nearby area. So clearly there is a huge market of Quartzite Rock Deposit in the area.

## 2.8 Employment Generation (Direct and indirect) Due to project:

Yes, through this project peoples get employment. The project directly generates the employment for the local people and indirectly for the others. Also the marketing of the product generates the employment for peoples. By this project, approximately 31 persons employed directly on project site.

## 3.0 PROJECT DESCRIPTION:

### 3.1 Type of project including interlinked and interdependent projects, if any:

No other material is interlinked with this mining work.

### 3.2 Location of Project (map showing general location, specific location, project boundary & project site layout) with coordinates

The proposed project site is strategically located at located at Langkaijuri Stone Mahal, Village- Modertoli, P.S.Doboka District- Hojai, State- Assam. Area – 5.0 Ha

Points	Latitude (N)	Longitude (E)
A	26°9'2.73"	92°49'33.89"
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D	26°8'56.19"	92°49'39.67"
E	26°9'0.65"	92°49'38.07"



### **3.3 Details of alternate sites considered and the basis of selecting the proposed site, particularly the environment considerations gone into should be highlighted.**

Mining of Quartzite Rock is site specific project and it cannot be shifted from one place to another due to availability of mineral resource. The land has been allocated by government for the mining only. Lease area is small consisting 5.0 Ha. All the excavated material has a ready market. No solid waste will be generated. Only top soil if any will be generated during mining activity which will be kept safely on the 7.5m wide strip.

Though the mining area is stony but a green barrier on 7.5m wide strip is to be developed all along the lease boundary. Besides above a 50m length on 7.5m wide strip is also proposed to be planted during the 5 years period. Before the onset of monsoon, during March to May pits for planting will be prepared in advance. Pits will be dug out at a suitable distance. The size of pit will be 0.5m x 0.5m. These pits will be kept open for 10-15 days. Cowden and soil will be added to these pits. Plantation activity on these pits will be started during the monsoon period. Local species will prefer in plantation. The strip plantation is shown in working plan.

### **3.4 Size or Magnitude of operation:**

The proposed capacity of the project will be 30,000 cum per year.

### **3.5 Project description with process detail:**

#### **METHOD OF WORKING:**

The mining will be done by open cast semi mechanized method of mining. Stone will be broken using Pick-axes, Hammers, and Crowbars etc. For proper sizing, Quartzite Rock will be further into smaller pieces as per the requirement and will be stacked in the nearby places with the help of tractors, trucks, etc. The method of working is going to be methodical and not endanger to the employee working in the mines.

#### **POSTULATES OF MINING METHODOLOGY-**

- The mining shall be started from the surface. The direction of advance shall be in all direction as shown in the plate no. 3.
- Since the deposit is almost Horizontal, the over burden removal & production may take place simultaneously.
- For the optimum utilization of the mineral available in the lease area, mine working has been planned and scientific layout has been designed considering the following parameters: A

clear gap of 7.5 meter is provided along with the lease boundary as required under MMR 1961.

- Top soil/ overburden will be removed initially & stack separately. Top soil/overburden will be store on 7.5 meter wide patty around lease area (plate no. 3).
- The Bench height will be 6m & bench width more than the height.
- The approach road will be repaired as when required.
- The quarry planning, slope, height, width and length of the benches are planned on the basis of deposit. Since the deposit is very simple, shallow and beds are horizontal, the simple Semi mechanized mining is most suitable.
- Simultaneous plantation will also be done along the lease boundary.
- The OB removal & production of mineral for the five years has been mentioned below. This OB will be used for making parapet wall & plantation.
- Overall slope of pit shall be maintaining 45 degree.

#### **Working Depth –**

a) As mentioned earlier the mine will be worked semi mechanically and blasting will be done by wagon drill holes (4.5” dia.). Initially 3m height sub benches shall be converted 6m high bench. Wagon drill holes will be drilled as below:

Hole depth:	1.5 m.
Spacing:	2.0m-2.5m.
Burden:	1.0m – 1.5m.

This deep hole will be blasted in one round.

b. The blasting will be undertaking by suitable explosives having comparable density, usually 6-8 cartridges of 220mm will be sufficient in one hole of 6m depth.

c. The no. of holes will be distributed in two working benches. As far as possible single row blasting may be preferred & each hole shall be charged with 600-800gm explosive depending upon the free face available the direction of face advanced and row of drill holes will so proposed that the direction of fly rock material will be expected to fall over the bench.

d. On the basis of past experience of the surrounding area and litology of rocks, the powder factor is expected to be 5.50 tonnes/kg of explosive. 300 gm of explosive per hole will be required to reach 5.50 tonnes/kg of powder factor.

e. Initially it is proposed to install of magazine of capacity about 50 Kg of high explosive along with the Accessories is expected to serve the purpose.

f. The lease will install 50 Kg magazine & 250 detonators with the due permission of chief controller of explosives.

- The mining shall be done by the semi-mechanized occasional blasting will be done under the supervision of a skilled and trained blaster. Blasting if required it will be done by with the permission of controller, Explosive Assam. No objection certificate will be obtained from District Magistrate.
- Drill will be done with jack hammers, supplied with compressed air compressor mounted on a tractor. Drill holes will be of 0.5m to 1.5m in depth, as per requirement. Drill holes shall be 30mm in diameter at spacing of 1m, in single or double rows.
- Blasting will be done following all precautions as per provision of Mines act/ rules/ regulations, ensuring that:
  - Bench height will be maintained at 6m.
  - Noise from blasting remains below 90db.
  - Air pollution is kept minimal.
  - Blasted rocks do not be done during the morning and night hours as there are chances of inversion in atmosphere.
  - Secondary strictly avoided.

### **3.6 Raw material required along with estimated quantity, likely source, marketing area, of final products, mode of transport of raw material and finished product.**

No raw material is required during the mining process.

### **3.7 Resource optimization/recycling and reuse envisaged in the project, if any, should be briefly outlined.**

Not applicable

### **3.8 Availability of Water, its source, energy/power requirement and source.**

#### **Water requirement**



Total water requirement in the mine will be about 1.6 KLD for drinking & domestic use, dust suppression and plantation. Drinking water will be brought by water tanker from nearby village.

### **Energy power source**

Solar panel will be used for site office.

### **Quantity of waste to be generated (liquid or solid) and scheme for their management / disposal.**

Site is well exposed with the minerals. No overburden is seen on the site. However, small amount of solid wastes i.e. pouch, food left-overs etc may be generated which will be contained by providing dustbins.

#### **3.8.1 Generation of waste water**

There is no waste water generation during the process.

### **4.0 SITE ANALYSIS**

#### **(i) Connectivity:**

##### **Villages/Town:**

- Bhagiram Gaon at 1.78km towards South - East direction.
- Modertati Mikir Gaon at a distance of 2.15 Km towards West - South direction from mine site.

##### **Road:**

NH,27 at a distance of 1.63 KM towards South direction from mine site.

##### **Railway Station:**

Jamunamukh Railway Station 9.57 KM, SW

##### **Airport:**

- Shillong Airport, which is at a distance of 100.87 km towards WS direction.

#### **(ii) Land form, land use and land ownership**

**Land form & land use:** The existing landuse of the project area comprises mainly scrub vegetation on waste land. At present the land ownership lies with the Government of Assam however, the LoI has been issued in favour of Imdad Ali a for mining purpose.

**Land ownership:** The Letter of intent has been granted in favour of Imdad Ali

Add. Village- H.No.11 Purbanchal Path ,Mathura Nagar, Dispur , Guwathi-06, Assam.

### (iii) Topography Along With Maps:

This is small mining area comprising only 5.0 ha land. The lease area is located on a hill where mining of this type is already going on. Physiographical, the maximum and minimum elevation of the area is 185mRL and 242mRL respectively. The slope of the area is towards South direction. The surrounding area consists of any thick vegetation except for patched agricultural lands.



**Fig.-5.0 km Radius around Project site**

### **GEOLOGY:**

Hojai district is situated in the central portion of Assam State and is represented by a vast plain with small hills on northern, southern and eastern part. Hojai is the district headquarter of the district. Geologically the district is underlain by rocks of Precambrian age consisting of granites and gneisses, rocks belonging to Barail and Surma series of Tertiary age and Quaternary alluvium. Since the Archaean and Precambrian granites and gneisses form the basement or are found as inselbergs projecting out the plains alluvial stretch.

***Geological Succession of the Formation in Nagaon District, Assam***

Age		Group	Formation	Description of Litho units
Quaternary	Recent		Khadar-newer alluvium	Clay, sand, slit etc.
	Unconformity			
	Pleistocene		Bhanger- Older alluvium	Clay, coarse sand, gravel & boulder.
Unconformity				
Tertiary	Pliocene	Dihing	Dihing	Pebble bed, sandy clay,

Geologically the district is underlain by rocks of Precambrian age consisting of granites and gneisses, rocks belonging to Barail and Surma series of Tertiary age and Quaternary alluvium. Since the Archaean and Precambrian granites and gneisses form the basement or are found as inselbergs projecting out the plains alluvial stretch. They are not of much significance from ground water point of view. The younger Tertiary formations are found confined to Lumding, Lanka and Hojai areas and in the east and north east. The rocks comprise massive and compact sandstones and shales. The district is occupied by Consolidated Formations belonging to Pre-Cambrian

Groups of rocks, Semi-consolidated Formations of Tertiary age and overlain by Unconsolidated Alluvial sediments of Quaternary age. The Pre-Cambrian rocks occupy about 3 % and the semi-consolidated Tertiary Group is an about 5 % of the TGA of the district. The Unconsolidated Alluvial sediments occupy about 90% of the total area and dominant in the District

**REGIONAL GEOLOGY:**

The area is dominated by Quartzite Rock, etc.

**(v). Existing infrastructure:**

**Villages/Town:**

- Bhagiram Gaon at 1.78km towards South - East direction.
- Modertati Mikir Gaon at a distance of 2.15 Km towards West - South direction from mine site.

**Road:**

NH,27 at a distance of 1.63 KM towards South direction from mine site.

**Railway Station:**

Jamunamukh Railway Station 9.57 KM, SW



**Airport:**

•Shillong Airport, which is at a distance of 100.87 km towards WS direction.

**Temple/Mosque:**

Modertoli Komola Mandir at a distance of 1.05 Km towards South East direction from mine site.

**Hospital:**

Modertoli Sub Center is at a distance of 1.93 km towards South direction.

**School:**

Modertoli High School is at a distance of 1.69 km towards South West direction.

**(vi). Climate data:**

The area experiences hot sub tropical humid climate. A hot and humid pre-monsoon from March to mid May, a prolonged southwest monsoon or rainy season from mid May to September, a pleasant post-monsoon or retreating monsoon from October to November and a cold pleasant winter from December to February are the characteristics of the general climate. Summer runs concurrently with the later part of the pre-monsoon season and continues throughout the monsoon sea

**(viii). Social infrastructure Available**

**Existing:**

The project site is located in the Village- Modertoli, District- Hojai, Assam. The primary school is in the village, high school and colleges are present in Hojai, Assam

## **4 PLANNING BRIEF**

**Planning Concept** Open cast semi mechanized mining method will be adopted for stone mining. It will be transported on Dumpers to nearby market and suppliers.

**Population Projection:** The project will employ most of the workers from nearby villages except for supervisory staff. Thus, there will no increase in population due to the project. However, few people from other areas may migrate in this area for employment and business opportunities.

### **4.1 Land Use Planning:**

Total land requirement for the project is 5.0 Ha. Opencast mining activities may alter the landscape of the lease area and also cause some disturbance to the surface features of the surrounding areas. Greenbelt is along the mine lease periphery.

As the mineral is non-replenishable, the excavated area at the end of mine life will be converted into an open benched pit which will be used as water collecting pond. The measures to be taken are likely to bring forth positive impact on the core zone landscape. The aesthetic environment of the core zone will have a positive impact by the time mining ceases in the area with proposed green belt development

**Assessment of infrastructure demand (physical & Social):** The infrastructure was assessed in the nearby villages on the basis of need and priority. Health and education infrastructure require improvement.

**Amenities / Facilities provided:** Proper site services such as First Aid, Canteen / Rest Shelter, Drinking Water, etc. will be provided to the workers.

Various facilities to be provided during construction and operation of the project are as follows:

1. Electricity shall be provided by installation of solar panels.
2. Drinking water will be provided to the workers by Tankers during operation.
3. To provide the first aid for any sort of injuries encountered during the mining operation, one small first aid room shall be provided. First aid kit and sufficient stock of material / medicines needed for first aid shall be provided as per requirement.
4. In future if women workers are employed, arrangement for a small crèche shall be made as per the requirement.
5. Necessary arrangement shall be made for conducting refresher course as laid down in vocational training rules to upgrade skills of the persons involved in the project.

## 6.0 PROPOSED INFRASTRUCTURE

S.N.	PARTICULARS	DETAILS
6.1	Mining Area	5.0
6.2	Residential Area	Not Applicable
6.3	Connectivity	<b><u>Road:</u></b> ➤ NH-27 – 1.63 Km, South <b><u>Railway Station:</u></b>

		➤ Jamunamukh Railway Station which about 9.57 Km towards South West direction.
6.4	<b>Green Belt</b>	80 saplings per year will be planted which includes trees species like Neem, Sal Makai Nageshwara Tiachapa Sonaru Shurbes like Munj, Dhatura, Kaneralong the approach road
6.5	<b>Social</b>	Social infrastructure will be provided as per the need of locals.
6.6	<b>Water management</b>	Total water requirement will be 1.6 KLD. Which will be met available through water tanker supply from nearby village
6.7	<b>Sewage management</b>	Not applicable
6.8	<b>Industrial Waste Management</b>	Not Applicable
6.9	<b>Solid Waste management</b>	Negligible waste will be generated which will
6.10	<b>Power Requirement</b>	Not required.

## 7.0 REHABILITATION & RESETTLEMENT PLAN

There is no human settlement within the applied area. No human settlement will be disturbed due to the mining activity. So, no rehabilitation and Resettlement is proposed.

## 8.0 PROJECT SCHEDULE & COST ESTIMATES

The proposed project will continue to be operated after getting the Environmental Clearance from SEAC.

### Project Cost Estimation:

S.N.	DETAILS	NUMBER	RATE in Rs.	TOTAL in Rs.
1	Labors for 250 Days	31	280	2170000
2	JCB/Loader with prior permission from concerned authorities	1	3500/Day	945000
3	Temporary Site office	-	-	40000



4	Oil & Lubricant		350/Day	94500
5	Other tools & Equipments	-	-	40000
6	Environment management plan	-	-	600000
<b>Total</b>				<b>3,889,500</b>

**Project Cost = Rs. 3,889,500 Lakhs**

## **9.0 ANALYSIS OF PROPOSAL (FINAL RECOMMENDATION)**

- ☐ Project will create direct & indirect employment opportunities within the surrounding region. Unit will use good faith efforts to employ local people from the nearby villages depending upon the availability of skilled & un-skilled man-power surrounding the project site.
- ☐ In the proposed project would require significant workforce of non-technical and technical persons. Migration of highly education and skilled experience will result in increase of literacy in the surrounding villages.
- ☐ In addition, the proposed project shall enhance the prospects of employment.
- ☐ Assessment of the potential socioeconomic benefits during mining focused primarily on work force requirements, acquisition of supplies, and the temporary increased demand for services related to the mining project like food, housing, communications, law enforcement, medical care, local transportation etc. Due to these, additional revenue to local suppliers for required products and services related to the construction and operation phases of the project will generate.
- ☐ Thus, mining activities will provide numerous new, although temporary, work opportunities for both skilled and unskilled labor, as well as contribute significantly to the local economy.
- ☐ Additional government revenue expected from royalty, taxes, duties and other fees.
- ☐ An added benefit to the proposed project will result in considerable growth of stimulating the industrial and commercial activities in the state. Small and medium scale industries may be further developed as a consequence.



খনিজ সম্পদৰ  
অন্বেষণ

GOVERNMENT OF ASSAM  
DIRECTORATE OF GEOLOGY AND MINING  
BHU-BIGYAN BHAWAN  
DAKHINGAON, KAHILIPARA, GUWAHATI-19  
Email: [dgmassam@gmail.com](mailto:dgmassam@gmail.com)  
[dgm.assam@gov.in](mailto:dgm.assam@gov.in)

18/11/2021

No. GM/MM/86-B (40)/ Pt.VIII/2676-80

Dtd. Guwahati, the 17/10/2021.

From :- Sri Ananda Kumar Das, ACS,  
Director,  
Directorate of Geology & Mining, Assam,  
Kahilipara, Guwahati-19.

:- The Divisional Forest Officer,  
Nagaon Division, Nagaon.

:- Approval of Mining Plan alongwith progressive Mine Closure Plan  
In respect of **Langkaijuri Stone Mahal Mining Permit Area ( area 5.0  
hec. for Mahal ) and 0.03 hec. for approach road) in Nagaon Dist. of  
Assam State submitted under Rule 51 & 52 of Assam Minor Mineral  
Concession Rules, 2013.**

**GPS Location for Mahal :**

- 1) 26°09'2.73"N -92°49'33.89" E
- 2) 26°08'58.75"N -92°49'30.04" E
- 3) 26°08'51.99"N -92°49'35.10" E
- 4) 26°08'56.19"N -92°49'39.67" E
- 5) 26°09'0.65"N -92°49'38.07

**For approach road :**

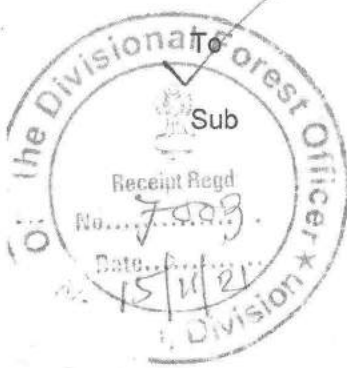
- 1) 26°08'52.20"N -92°49'38.30" E
- 2) 26°08'53.28"N -92°49'36.61" E
- 3) 26°08'53.10"N -92°49'36.40" E
- 4) 26°08'52.40"N -92°49'38.31" E

Ref :- Your letter No FNGT/B/Langkaijuri Stone Mahal/2021/4257-58  
dtd. 29/9/2021

Sir,

In exercise of the power conferred under Rule 51 & 52 of Assam Minor Mineral Concession Rules, 2013, I hereby approved the aforesaid Mining Plan (including Progressive Mine Closure Plan) prepared by **R.Q.P. Abhijit Bora**. This approval is subjected to the following conditions :

- 1) The Mining Plan alongwith Progressive Mine Closure 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 Mining Plan along with Progressive Mine Closure 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 & Hydro Carbon 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 & Regulation made there under.
- 4) Directorate of Geology & Mining, Assam 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 precise area as furnished by the lessee.



- 5) At any stage, if it is observed that the information furnished data incorporated in the documents are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
- 6) This approval is restricted in respect of the proposals contained therein within mining lease area and is applicable from the date of approval and maximum quantity for **Stone** recommended for extraction is **1,50,000 cubic metre (for the contract holder) and 50,000 cubic metre for (various development work) for five years to be used for construction work** subject to all statutory compliance and clearances for the mining activities to be carried out within the mining leasehold.
- 7) Adequate number of check dams and retaining walls shall to made & maintained in good conditions to prevent any anticipated detrimental impact on water regime.
- 8) "Safety Berm" of adequate dimension shall be kept at all the places in the vicinity of statutory barrier, high bench/escarpment. It shall also be ensured that no excavation is to be made in the vicinity of any high side wall/escarpment. Stability of benches, escarpments shall be closely monitored .It is the responsibility of the lessee to ensure the stability of all the escarpments/side/benches, Lessee shall take all necessary steps time to time so as to ensure the stability of ground, which includes but not limited to reduction of the high side wall to safe and stable condition within first year itself.
- 9) Sufficient safety Berm shall be maintained with respect to public road/village road.
- 10) In case of patta land, a certificate from Revenue Authority should be obtained that the mining area is a non agricultural land.
- 11) Violation of the provision of the Mining Plan including Progressive Mine Closure Plan shall liable to cancel the Mining Plan.
- 12) Environmental clearance must be obtained from the competent authority before execution.
- 13) Divisional Forest Officer should confirm that the lease area does not fall in the National Park, Wild Life Sanctuary, Game Sanctuary, Bird Sanctuary etc including ecosensitive zone and does not affect the animals, birds and biodiversity in anyway.
- 14) There is no provision of mechanized or semi mechanized mode of extraction in case of river sand mining.
- 15) If necessary the permit/contract/lease holder may approach the competent authority for blasting permission.
- 16) The Divisional Forest Officer should ensure that no additional quantity is to be extracted.

Encl: Approved Mining Plan alongwith Progressive Mine Closure Plan.

Yours faithfully,



Director,

Directorate of Geology & Mining, Assam.

Dtd. Guwahati, the Oct, 2021.

No. GM/MM/86-B (40)/Pt.VIII/

Copy to :- 1) The Deputy Commissioner, Nagaon

2) The Superintendent of Police, Nagaon

3) IMDAD Ali, H.No.11, Purbanchal Path, Mathura Nagar, Dispur, Ghy-6.

4) Office copy.

-for kind information and necessary action.

- for kind information and necessary action.

Director,

Directorate of Geology & Mining, Assam.



**GEO-REFERENCE MAP SHOWING THE PROPOSED 5.04 HECT.  
LANKAIJURI STONE MAHAL (STONE MAHAL AREA - 5 HECT. &  
APPROACH ROAD AREA - 0.04 HECT AT DABOKA RF UNDER  
KATHIATOLI RANGE, KATHIATOLI**

**GPS POINTS LONGITUDE LATITUDE APPROACH ROAD AREA**

1. 26° 8'52.20"N 92°49'38.30"E
2. 26° 8'53.28"N 92°49'36.61"E
3. 26° 8'53.10"N 92°49'36.40"E
4. 26° 8'52.40"N 92°49'38.31"E

*[Signature]*  
Asst. Conservator of Forest  
Nagaon Forest Division  
Nagaon

**GPS POINTS LONGITUDE LATITUDE STONE MAHAL AREA**

1. 26° 9'2.73"N 92°49'33.89"E
2. 26° 8'58.75"N 92°49'30.04"E
3. 26° 8'51.99"N 92°49'35.10"E
4. 26° 8'56.19"N 92°49'39.67"E
5. 26° 9'0.65"N 92°49'38.07"E

Submitted

*[Signature]*

Forest Range Officer  
Kathiatali Range

**Schedule A**  
**"Information Memorandum"**

1. Name of the Mineral Concession Area: **LANGKAIJURI STONE MAHAL UNDER KATHIATOLI RANGE, KATHIATOLI OF 2020-25.**
2. Status of Land: **Reserve Forest**
3. Grant of Mining Contract for collection of Stone in the mining area.
  - (a) Area and Estimated Reserves = **5.00 Ha with 1,50,000 cu.m Stone.**
  - (b) Period of Lease/Contract = **5 years from date of possession.**
  - (c) Reserve Price: Rs. **3,70,50,000.00** (Rs. **Three Crores Seventy Lakhs Fifty Thousand only**).
  - (d) Earnest Money  
10% on reserve price, i.e., **Rs 37,05,000.00** (Rs. **Thirty Seven Lakhs Five Thousand only**). However, 50% of this amount if bidder is an individual and belongs to S.T/S.C/OBC, i.e., **Rs. 18,52,500.00** (Rupee **Eighteen Lakhs Fifty Two Thousand Five Hundred only**).
  - (e) G.P.S Coordinates of the corners of mine area: The boundary pillars shall be installed on site by the successful bidder at these and other intermediate locations, as per the directions of competent authority, before start of mining operation.

**North- Boundary of Nagaon South Division**  
**South- Doboka R. F.**  
**East- Doboka R. F.**  
**West- Langkaijuri old Stone Mahal.**

Tracks	Ha	SL. No.	LAT/LONG
Track 1	5.00 Ha.	1	N = 26°08'58.75" E = 092°49'30.04"
		2	N = 26°08'51.99" E = 092°49'35.10"
		3	N = 26°08'56.19" E = 092°49'39.67"
		4	N = 26°09'00.65" E = 092°49'38.07"
		5	N = 26°09'02.73" E = 092°49'33.89"
		6	N = 26°08'53.01" E = 092°49'36.61"
		7	N = 26°08'51.55" E = 092°49'39.51"
		8	N = 26°08'50.67" E = 092°49'39.50"
		9	N = 26°08'54.34" E = 092°49'37.90"

(f) Google Earth image of the Mineral Concession Area-



(g) Representative photograph of the mineral concession area-





(h) Applicable Clearances:

- No Objection Certificate from Deputy Commissioner in case of Mineral concession Area is Revenue land (non-forest land): Already obtained
  - Mining Plan approved by the Director, Geology and Mining Department, Govt. of Assam. The preparation of Mining Plan is under process and the Mining plan shall be transferred to the Successful Bidder/Lessee on payment of required applicable charges (Rs.....).
  - Environment Clearance and other clearances to be obtained from State Environment Impact Assessment Authority, Govt. of Assam as per and the instructions of the Ministry of Env. , Forests & Climate Change, Govt. of India issued vide S.O. 1533(E), dated 14.09.2006 and its subsequent amendments. The grant of Environmental Clearance is under process at DEIAA/SEIAA and the same shall be transferred to the Successful Bidder/Lessee on payment of required applicable fee (Rs.....).
  - In case of Mineral concession Area is a Forest land, the Forest Clearance to be obtained under Forest Conservation Act, 1980 from the Ministry of Env. , Forests & Climate Change, Govt. of India shall be transferred to the Successful bidder on payment of Net Present Value-Rs....., Cost of Compensatory Afforestation -Rs....., Overhead cost-Rs..... etc.(Total Rs.....)
- (i) Quota for Govt. permits: Excess of Mining Plan Quantity over the bid quantity in case of Contract and Permit. However, for lease, maximum quota for govt. works as specified by the competent authority.

Rajen  
Choudhury

Digitally signed by  
Rajen Choudhury  
Date: 2020.06.10  
22:31:28 +05'30'

DIVISIONAL FOREST OFFICER,  
NAGAON DIVISION, NAGAON

2337

# MINING PLAN

**LANGKAIJURI STONE MAHAL**

**DISTRICT: HOJAI, ASSAM**

**(MAHAL AREA : 5.0 HECTARES**

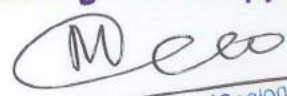
**APPROACH ROAD: 0.04 HECTARES)**



**SUBMITTED  
UNDER RULE – 52 (1) OF THE  
ASSAM MINOR MINERAL CONCESSION RULES 2013**

**APPROVAL FROM  
DIRECTORATE OF  
GEOLOGY & MINING  
ASSAM**

**Mining Plan is Approved**

  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19

**BY:  
IMDAD ALI  
H. NO. 11, PURBANCHAL PATH,  
MATHURA NAGAR,  
DISPUR, GUWAHATI-06, ASSAM**

  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

8/11/2021



**Imdad Ali**H. No. 11, Purbanchal Path, Mathura Nagar, Dispur, Guwahati-06, Assam Phone: 9435562929Date: 15/10/21**DECLARATION BY THE APPLICANT**

This Mining Plan is prepared under the provision of Rule 52(1) of the Assam Minor Mineral Concession Rules, 2013 in respect of the 'Langkaijuri Stone Mahal' measuring 5.0 Hectares for five years located near Modertoli Gaon, P.O. Modertoli & P.S. Doboka, District: Nagaon (Assam) under Kathiatoli Range of Nagaon Forest Division, Nagaon District: Nagaon, Assam for extraction of stone in consultation with me. I understand its content and hereby agree to implement the extraction work of the stone in accordance with the prevailing provisions of law. If any other permission is needed, I shall approach the appropriate authority, before commencement of the extraction work.



(Imdad Ali)

**Imdad Ali**H. No. 11, Purbanchal Path, Mathura Nagar, Dispur, Guwahati-06, Assam Phone: 9435562929

Date: ...15/10/21...

**CONSENT LETTER FROM THE APPLICANT**

The Mining Plan in respect of the 'Langkaijuri Stone Mahal' measuring 5.0 Hectares, under Kathiatoli Range of Nagaon Forest Division, Nagaon District: Nagaon, Assam for extraction of stone for various constructional purposes within the State of Assam has been prepared by Dr. Abhijit Bora, resident of 2F/3, Beaufort Apartment, Basisthapur Bye Lane-3, P.O. Beltola, Guwahati- 781028, and a RQP with Registration No. DGM/RQP/02/2014 from Directorate of Geology and Mining, Govt. of Assam, Guwahati with validity up to 09-09-2024, on behalf of the undersigned.

I hereby undertake that the Mining Plan so prepared by the said RQP has been made with my knowledge and consent and shall be acceptable and binding on me in all respect.



((Imdad Ali))

  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014



**CERTIFICATE**

This is to certify that the Mining Plan in respect of the 'Langkaijuri Stone Mahal' Mining Contract for extraction of stone for various constructional purposes located near Modertoli Gaon, P.O. Modertoli & P.S. Doboka, District: Nagaon (Assam) for extraction stone under Kathiatoli Range of Nagaon Forest Division, Nagaon District: Nagaon, Assam for mining of stone measuring 5.0 Hectares, has been prepared in favour of the applicant Imdad Ali, under the relevant provisions of the Assam Minor Mineral Concession Rules, 2013.

The Applicant/ Mining Contract Holder shall approach authorities concerned for any other permission, if required, during the process of the Mining Operation.

It is further certified that the information furnished in the Mining Plan is true and correct to the best of my knowledge.

Place: Guwahati

Date: 26/10/2021

**Abhijit Bora, Ph.D.**

**Regd. No. DGM/RQP/02/2014**

**(ABHIJIT BORA)**

**Registration No. DGM/RQP/02/2014**

**Directorate of Geology and Mining**

**Govt. of Assam**

**Valid up to: 09-09-2024**

**Address: 2F/3, Beaufort Apartment,**

**Basisthapur Bye Lane-3,**

**P.O. Beltola, Guwahati- 781028**

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**Contents**

	Page No.
Introduction	1
General information	3
Particulars of the RQP preparing the mining plan	5
Section- A	
1. Location of the proposed permit area	6
2. Physiography and Drainage	7
3. Geology of the Allotted Area	
a. Regional Geology	7
b. General Geology of the area	9
4. The allotted land & the type of rock	10
5. Properties of the minerals and available reserve of stone and use	11
6. Climate and Rainfall	12
Section- B	
1. Mining	15
2. Production for the permit period up to 14.03.2017	16
3. Use of Explosives	16
4. Parameters considered for Mine Design and proposed method of Mining	17
5. Development and Production Plan	20
6. Disposal and End User of Mineral	25
7. Mine Drainage and Disposal of Waste	26
8. Extent of Mechanisation	27
9. Mining Equipment	27
10. Explosive and Blasting Parameters	28
11. Type of Explosives & Blasting Operation	29
12. Storage of Explosives	30
13. Site Services and List of Man Power	31

## Section- C

1. Environment Management Plan	32
2. Environmental Impact Assessment	34
3. Progressive Mine Closure Plan	36

Conclusion	38
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Site Photographs	39
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Google Image	40
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Annexure 1	Photostat copy of Letter from DFO, Nagaon Forest Division
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Annexure 2	Photostat copy of Schedule A
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Annexure 3	Photostat copy of GPS Coordinates
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Annexure 3	Photostat copy of LOI
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**INTRODUCTION:**

Imdad Ali, a resident of H. No. 11, Purbanchal Path, Mathura Nagar, Dispur, Guwahati-06, Assam propose to open a stone quarry near Modertoli Gaon, P.O. Modertoli & P.S. Doboka, District: Nagaon (Assam) under Kathiatoli Range of Nagaon Forest Division, Nagaon District: Hojai, Assam for production of stone to meet up the local demand of stones for Stone Crusher units as well as to supply to various government, semi-government and private agencies for civil construction purposes. There is a demand of stone products like road metals, stone chips of different sizes in Nagaon district and adjoining areas and this stone quarry will meet up the requirement of such stone products to some extent.


For collection of such material from Doboka Reserved Forest for a period of 5 (five) years, necessary permission from concerned authority has to be taken before commencement of the production. The Contract area is located near Modertoli Gaon, P.O. Modertoli & P.S. Doboka, District: Hojai (Assam). This stone quarry to be opened by Imdad Ali will surely meet the requirement of the stone products to some extent. The proposed Mining Plan covers a scientific and systematic assessment of the deposit which indicates the details of conservation of the deposit and protection of environment in and around the quarrying area.

This is a mining Contract, proposed to award to Imdad Ali is for five years, as proposed by the competent authority, Department of Environment and Forest, Government of Assam. The location of the quarry site as has been recommended by the Department of Environment and Forest, Government of Assam to issue the Mining Contract is within the Doboka Reserved Forest, for collection of stone. The location of the quarry site is close to National Highway 27, which is about 1.5 KM away from the quarry site, connected by a motorable road. The proposed quarry site is free from human habitation within a radius of about 1.1 KM.

  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

- 1 -

**Mining Plan is Approved**

  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19




The proposed quarry site is under the jurisdiction of Kathiatoli Range of Nagaon Forest Division, Nagaon District: Nagaon, Assam. The area is of 5.0 Hectares with a safety zone of 0.63 Ha (7.5m strip all along the outer boundary of the Mining permit Area) and is a degraded forested area. The area is covered by small vegetations like grasses and shrubs. There is no growth of valuable big trees. The proposed site is not within any protected area under Archeological, Religious, Cultural heritage or Defense establishments. By opening a stone quarry as proposed, this area will be benefited by generation of employment opportunities to the local people as well as growth of economic activities.

**Mining Plan is Approved**



Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilpara, Ghy-19

  
Abhijit Bora, Ph D.  
Regd No. DGM/RQP/02/2014

**GENERAL INFORMATION:****The Applicant:**

1. Name : Imdad Ali
2. Office Address : H. No. 11, Purbanchal Path  
Mathura Nagar,  
Dispur, Guwahati-06, Assam
3. Site Address : Langkaijuri Stone Mahal  
Village: Modertoli Gaon  
P.O. Modertoli,  
P.S. Doboka  
District: Hojai (Assam)
4. Status of Applicant : Proprietorial.
5. Mineral Occurring in the area and its use : Quartzite rock (with iron leaching) to be quarried and to be used as construction material as well as road metals.
6. Name of the Quarry : Langkaijuri Stone Mahal
7. Quantity recommended for extraction : 1,50,000 Cu M of stone for 5 years  
(for the Mining Contract Holder)  
50,000 Cu M of stone for 5 years  
(for various developmental work)
8. Contract Period : 5 (five) years.
9. Forest Range & Division : Kathiatoli Range  
Nagaon Forest Division,

*Abhijit Bora*  
Abhijit Bora, Ph.D  
Regd No. DGM/RQP/02/2014

Mining Plan is Approved

*M. Ali*  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilipara Ghy-19

Nagaon Forest Division,  
Nagaon,  
District: Nagaon, Assam

10. Survey of India Toposheet No. : 83 B/16

involved

11. Latitude/ Longitude : Mahal Area: (Area: 5.0 Ha)
1. 26°09'2.73"N- 92°49'33.89"E
  2. 26°08'58.75"N- 92°49'30.04"E
  3. 26°08'51.99"N- 92°49'35.10"E
  4. 26°08'56.19"N- 92°49'39.67"E
  5. 26°09'0.65"N- 92°49'38.07"E
- Approach Road Area: (Area: 0.03 Ha)
1. 26°08'52.20"N- 92°49'38.30"E
  2. 26°08'53.28"N- 92°49'36.61"E
  3. 26°08'53.10"N- 92°49'36.40"E
  4. 26°08'52.40"N- 92°49'38.31"E
12. Nearest Railway Station : Jamunamukh
13. Nearest Airport : LGB Airport, Guwahati
14. Nearest Highway : NH - 27

**Mining Plan is Approved**

Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilipara, Ghy-19

*Abhijit Bora*  
Abhijit Bora, Ph D.  
Regd. No. DGM/RQP/02/2014

**PARTICULARS OF THE RQP PREPARING THE MINING PLAN:**

1. Name of the RQP	: Dr. Abhijit Bora
2. Address	: 2F/3, Beaufort Apartment Basisthapur Bye lane-3 P.O. Beltola Guwahati- 781028
3. Registration No.	: DGM/RQP/02/2014 Directorate of Geology & Mining, Govt. of Assam, Kahilipara, Guwahati-19
4. Validity of Registration	: Upto 09-09-2024
5. Contact Number	: 9864043223
6 Email ID	: abhijitbora06@gmail.com

**Mining Plan is Approved**

*M. Ali*  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilipara, Ghy-19

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/2014



**LOCATION OF THE PROPOSED CONTRACT AREA:**

The location of the proposed quarry site is close to National Highway 27 which is nearly 1.5 KM away. The road connected with National Highway 27 is a motorable road.

The proposed site is falls under Doboka Reserved Forest under Kathiatoli Range of Nagaon Forest Division. The other details of the proposed Contract area are as follows:

- |                                |  |
|--------------------------------|--|
| 1. Village                     | : Modertoli Gaon   |
| P.O.                           | : Modertoli,   |
| Police Station                 | : Doboka   |
| District                       | : Hojai  |
| State                          | : Assam  |
| 2. Term of the Mining Contract | : 5 (five) years   |
| 3. Total area                  | : 5.00 Hectares  |
| 4. Ownership/ Occupancy        | : Divisional Forest Officer<br>Nagaon Forest Division<br>Nagaon<br>District: Nagaon<br>Assam   |
| 5. Land use pattern            | : The core zone located at Doboka<br>Reserved Forest. Area is degraded<br>forest mainly covered with grasses<br>and scrubs with exposed rocks. |

**Mining Plan is Approved**

*(Signature)*

Senior Geologist  
Directorate of Geology  
Govt. of Assam  
Kahilipara, Ghy-19

*(Signature)*  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/2014

## PHYSIOGRAPHY AND DRAINAGE:

The proposed Contract area allotted, Langkaijuri Stone Mahal, is of more or less rectangular shaped. As per statement furnished by Divisional Forest Officer, Nagaon Forest Division, the total area available for mining is about 5.00 Hectares. The general slope of the area is towards north west as the area itself rises from the south eastern side. The topography of the area is undulating one. The altitude ranges from 56M at the bottom of the hill to 80M at the hilltop. The proposed area is free from any valuable tree and useful vegetation but covered with degraded forest with grass, scrubs etc. with exposed rocks.

Drainage pattern of the area is mainly controlled by number of small streams present in the area, finally falls in the nearest paddy field.

## GEOLOGY OF THE ALLOTTED AREA:

### A. Regional Geology:

The Assam plateau lies along the continuation of the Archeans of Bihar and comprises Garo, Khasi, Jaintia hills and to its north-east is the detached area of Mikir hills. Tertiary rocks are well developed in the north-eastern and south-eastern part where they exhibit a more or less complete geological succession ranging from Paleocene to Lower-Pleistocene. The generalized geological succession of Assam is as follows:

Age		Group	Formation	Description of Litho units
Quaternary	Recent		Khadar-newer alluvium	Clay, sand, slit etc.
	Unconformity			
	Pleistocene		Bhanger- Older alluvium	Clay, coarse sand, gravel & boulder.
Unconformity				
Tertiary	Pliocene	Dihing	Dihing	Pebble bed, sandy clay,

*Abhijit Bora*  
Abhijit Bora, Ph D  
Regd No. DGM/RQP/02/2014

**Mining Plan is Approved**

*W. C. S.*  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19

				clay, conglomerate and sand stone
	Mio-Pliocene		Dupitila (Surma Valley) & Namsang (Upper Assam)	Sandstone, mottled clay, grid, conglomerate bed
	Unconformity			
	Miocene	Tipam	Girujan	Mottled clay, sandy shale & sandstone
			Tipam	Bluish gray to greenish sandstone, clay, shale, conglomerate etc.
		Surma	Bokabil	Shale, Sandy shale, sandstone etc.
			Bhuban	Alteration of sandstone, sandy shale & conglomerate.
	Unconformity			
	Oligocene	Barail	Tikok Parbat	Banded sandstone with thick coal seams
			Bogolai	Sandstone & shale with numerous thin coal seams, carbonaceous shale, sandstone etc.
			Naogaon	Thin bedded hard sandstone with shale
	Eocene	Disang		Dark grey shale & sandstone
		Jayantia	Kopili	Shale, sandstone etc.
			Sylhet sandstone	Sandstone, coal, clay & shale
			Sylhet Limestone	Fossiliferous limestone
	Unconformity			
Mesozoic	Jurassic		Volcanic	Trap, basaltic & doleritic rock
	Unconformity			
Palaeozoic	Permian	Gondwana	Simgimari	Buff coloured fine grained sandstone, shale, carbonaceous shale with coal & conglomerate etc.,
	Unconformity			
Proterozoic	Precambrian	Shillong		Granite, pegmatite, alternating beds of clay,

Abhijit Bora  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/07/2014

Mining Plan is Approved

*Meeo*  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilipara, Ghy-19

				quartzite, phyllite, basalt conglomerate etc.
Unconformity				
Azoic	Archean	Gneissic		Granite, pegmatite, metadolomite, amphibolite, biotite, hornblende, gneiss, calc granulite, pyroxenite etc.

(Regional geology is based on Miscellaneous Publication No.1 of Directorate of Geology and Mining, Government of Assam)

### B. General Geology of the area:

The area proposed to be allotted to Imdad Ali lies within Nagaon district. The geology of the Mining Contract area is massive quartzitic body with impurities. It comprises light grey coloured hard fine-grained quartzite with high quantity of quartz. Joints and fractures are distinct in the Contract area which will be very much useful for mining. (Figure 2)

Mining Plan is Approved

*M. e.*

Senior Geologist,  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19

*Abhijit Bora*  
Abhijit Bora, Ph D.  
Regd No. DGM/RQP/02/2014



**THE ALLOTTED LAND AND THE TYPE OF ROCK:**


The total area proposed for grant of Mining Contract to Imdad Ali for stone quarry is 5.00 Hectares. The area is demarcated by the Competent Authority of the Department of Environment and Forest falls within Doboka Reserved Forest under Nagaon Forest Division. (Figure1).


The geographic co-ordinates of the four corner points collected by GPS are:

1. 26°09'2.73"N- 92°49'33.89"E
2. 26°08'58.75"N- 92°49'30.04"E
3. 26°08'51.99"N- 92°49'35.10"E
4. 26°08'56.19"N- 92°49'39.67"E
5. 26°09'0.65"N- 92°49'38.07"E

The geology of the Mining Contract area is massive quartzitic body with impurities. It comprises light grey coloured hard fine-grained quartzite with high quantity of quartz.

**Mining Plan is Approved**

  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilipara, Ghy-19

  
Abhijit Bora, Ph.D  
Regd No. DGM/RQP/02/20

**PROPERTIES OF THE STONE:**

The stone is hard, compact, light grey in colour and is fine grained.

The rock deposit is covered with thin layer of vegetation and soil. The rocks are well exposed in the area.

**USE:**

The minerals so available are suitable for use basically in construction works as well as road metals.

**MINEABLE RESERVE OF THE MINERAL AT THE PROPOSED SITE:**

The detailed exploration of the mineral in the area has not been carried out. Therefore, the estimation of the Mineable reserve has been made considering the deposit to be massive and continuous. As per the Letter No. FNGT/ B/ Langkaijuri Stone Mahal/ 2021/ 4257-58, dtd. 29.09.2021, of the Divisional Forest Officer of Nagaon Forest Division, Nagaon, the total Mining Contract period is for five years and the quantity of 2,00,000 Cu.M of stones have been allowed for extraction from this quarry site. The Contract Area is marked as 1, 2, 3 & 4 for mining of mineral as may seen in the Base Map (Fig.1). The Mineable reserve calculated roughly up to the lowest level is approximately 25,00,000 Cu.M.

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

- 11 -

**Mining Plan is Approved**

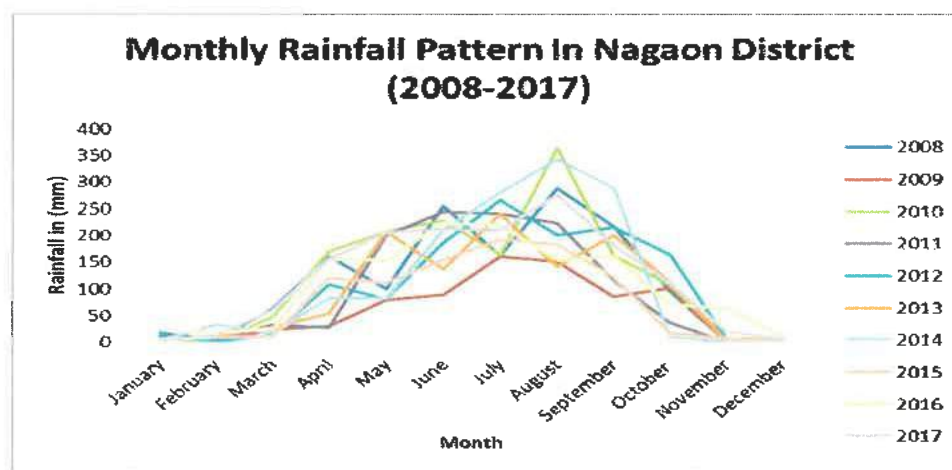
*Mee*  
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## CLIMATE AND RAINFALL:

The climate is in general Monsoon type. But there are some differences from the other districts of Assam. Rainfall increases towards the east and the west of Assam from this district. The pattern of rainfall is such that the south is usually dry and the north is relatively rainier. Rainfall from south to north increases from 1000 mm per annum to 2000 mm per annum. The cold season is from December to February. Floods create havoc usually from June to October. The monsoon lasts from April to May. The post monsoon season lasts from October to November. The average rainfall is about 1750 mm.

Temperature in winter varies from a maximum of 24.8 ° Celcius to a minimum of 11.2 ° Celcius. In summer, temperature varies from a maximum of 32.9 ° Celcius to a minimum of 25.5 ° Celcius. The annual average maximum temperature is 30.4 ° Celcius and the minimum is 19.8 ° Celcius.

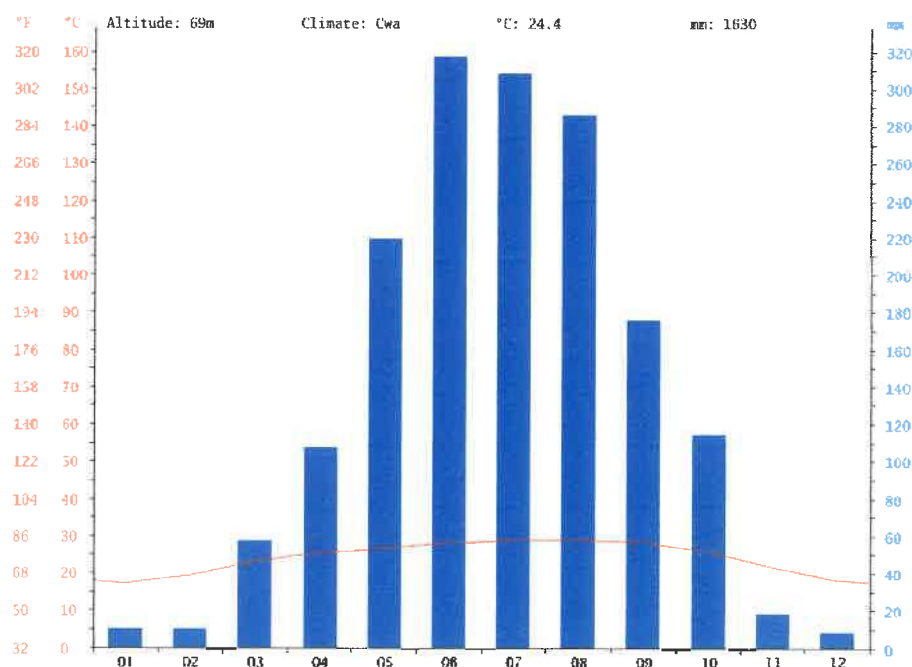
Highest Temperature	: 30.4°C
Lowest Temperature	: 19.8°C
Average Annual Relative Humidity	: 87%
Average Annual Rainfall	: 1750 mm



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	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature (°C)	17.4	19.5	23.2	25.6	26.7	28.2	28.9	28.9	28.4	26.1	22	18.5
Min. Temperature (°C)	10.9	13.1	16.7	20.1	22.5	24.7	25.4	25.4	24.8	21.8	16.5	12.2
Max. Temperature (°C)	23.9	25.9	29.7	31.1	30.9	31.8	32.4	32.4	32	30.4	27.6	24.8
Avg. Temperature (°F)	63.3	67.1	73.8	78.1	80.1	82.8	84.0	84.0	83.1	79.0	71.6	65.3
Min. Temperature (°F)	51.6	55.6	62.1	68.2	72.5	76.5	77.7	77.7	76.6	71.2	61.7	54.0
Max. Temperature (°F)	75.0	78.6	85.5	88.0	87.6	89.2	90.3	90.3	89.6	86.7	81.7	76.6
Precipitation / Rainfall (mm)	10	10	57	107	219	317	308	286	176	114	18	8

Climate Table/ Historical Weather Data of Nagaon District.



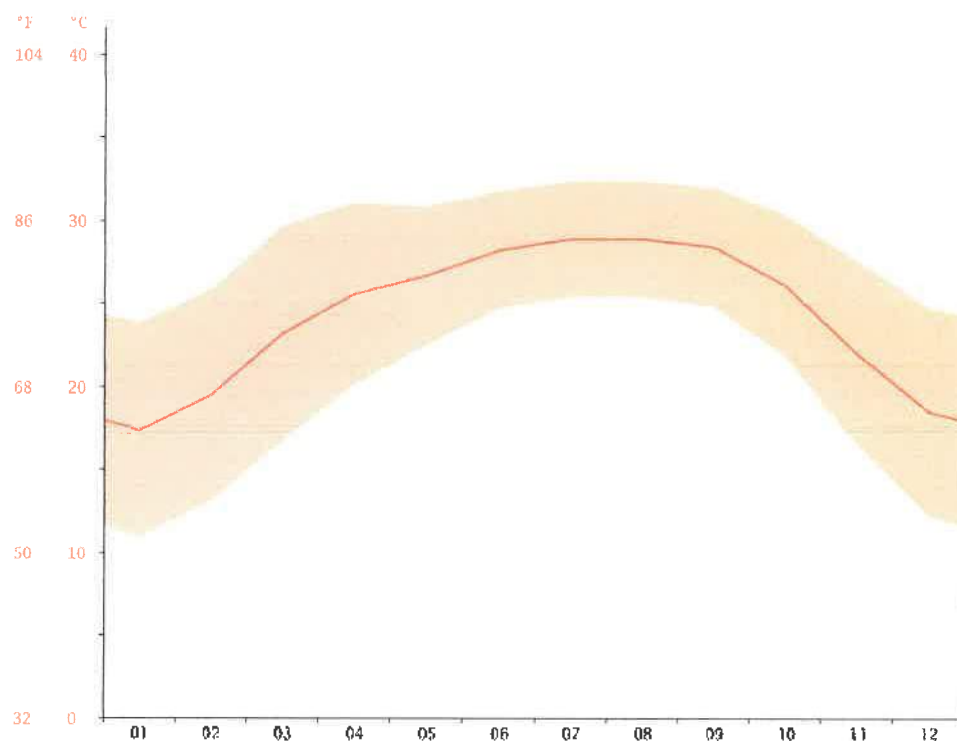
Climate Graph of Nagaon District.

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Kahilipara, Ghoraghat





Temperature Graph of Nagaon District

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**MINING:**

In order to ensure mineral conservation, systematic mining and protection of environment, the Assam Minor Mineral Concession Rules (AMMCR), 1994 has been replaced by AMMCR, 2013 and it has been made mandatory to prepare Mining Plan and progressive Mine Closure Plan for grant of any mineral concessions like "Mining Lease", "Mining Contract" or "Mining Permit" in respect of minor minerals for systematic and scientific development of all mines, quarries as well as river bed mining. The responsibility of preparation of "Mining Plan" in respect of any mine applied for mineral concession has been entrusted to technical experts known as "Recognised Qualified Person" (RQP) and this has been made mandatory for all mines and quarries.

In the present case, it is proposed to allow the Mining Contract holder to extract rock boulder is a Reserved Forest. The proposed area is steep towards north western direction and quarrying shall have to be carried out by making benches at suitable levels between the contours in the NE-SW direction as shown in the Figure. 3. As per the contour lines drawn in respect of the area, the hauling road to reach the possible top level of the proposed area shall be constructed from north eastern side of the deposit.

The area is covered with little amount of vegetation and soil, without any tree of significant importance. For facilitating mining in this area and for transportation of the quarry products, an unmetalled approach road already exist up to the quarry site connecting the main road.

There is a top soil cover with thickness varying from 0.75M to 0.5M over whole area except some places where there are exposed rock boulders. Such exposed rocks are weathered rocks and may be used only for the construction of the approach road and backfilling in the mined-out area for reclamation purposes.

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- 15 -

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## YEAR WISE PRODUCTION FOR THE CONTRACT PERIOD OF FIVE YEARS:

The quarry has been designed to work for 250 days per year on single shift basis. As per the Letter of Intent No. FNGT/ B/ Langkaijuri Stone Mahal/ 2021/ 4257-58, dtd. 29.09.2021, of the Divisional Forest Officer Nagaon Forest Division, Nagaon District: Nagaon, Assam, the total Mining Contract period is five years and the quantity of 2,00,000 Cu.M of stones have been allowed for extraction from this quarry site, i.e. @ 40000 Cu.M per year approximately. The applicant, however, requested to design the quarry to extract optimum quantities of stone boulders possible, during the period of 5 years granted to the applicant. Considering the above and reserve of the mineral in the area, the mine is designed to produce 40000 Cu.M of stone boulders in average per annum along with some overburden.

The schedule of year wise production of the stone boulders from first and seventh year is as below:

<u>Year</u>	<u>Production (Cu.M)</u>
1 <sup>st</sup> Year	40800
2 <sup>nd</sup> Year	38100
3 <sup>rd</sup> Year	40700
4 <sup>th</sup> Year	39800
5 <sup>th</sup> Year	40600

## USE OF EXPLOSIVES:

The deposit is hard and compact, hence use of explosive is suggested for economic point of view and time to achieve the target production. The applicant is suggested to approach the competent authority, Office of the Deputy Commissioner to take proper permission to use of explosive in proper way and clearance from Pollution Control Board.

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## PARAMETERS CONSIDERED FOR MINE DESIGN AND PROPOSED METHOD OF MINING:

Sl.No	PARAMETERS	REMARKS
1.	Proposed method Mining	Opencast
2.	Mode of Mining	Manual
3.	Working days in a year	250 days
4.	Designed production per day	160 Cu.m
5.	Name of the mineral to be extracted	Quartzite
6.	Bulk density	1.5MT/Cu.m
7.	Specific Gravity	2.60
8.	No. of shift	1
9.	Overburden	2% Contains mixture of soil and weathered rocks

Considering the surface feature, contours, quantity of rocks to be extracted, the nature of the deposit and availability of infrastructure, it is suggested to adopt Opencast Mining method, with compressed air drilling, blasting of large boulders and manual/ mechanized loading.

The layout of the mine shall be as follows:

- A. The hauling road shall be constructed from the datum level at 283M contour towards south west as shown in the Figure 3 showing mining

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operation. It is designed to keep minimum of forty-five numbers of benches (including re-mining benches) throughout the operation to maneuver all the works at a time without hampering the other works.

- B. As shown in the figure, the layout of the faces shall be generally in the NE-SW direction along the contour levels as far as practicable. The bench height is to be maintained at 3M and width up to maximum of 8M.

### YEARWISE MATERIALS TO BE HANDLED: – (in Cu.M)

Year	Proposed Extraction of Stone per year	Overburden removal per year	Total Material to be handled per year	Total material to be handled per day
1 <sup>st</sup> Year	40800	560	41360	165
2 <sup>nd</sup> Year	38100	330	38430	152
3 <sup>rd</sup> Year	40700	200	40900	164
4 <sup>th</sup> Year	39800	0	39800	159
5 <sup>th</sup> Year	40600	0	40600	162

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**DRILLING:**

Different parameters considered for drilling are as follows:

Parameters	Amount
Material to be extracted	2,00,000 Cu.M
No. of working days per year	250 days
Materials to be handled per day	152-165 Cu.M
No. shifts per day	1
Depth of holes	1.5M
Spacing of holes	2.0M – 2.5M
Burden of each hole	1.0M – 1.5M
Pattern of holes	Staggered
Inclination of holes	0
Yield per hole	3.0 Cu.M
No. of holes per day	10-12
Type of drill machine to be used	Handheld jack hammer Drill
Diameter of holes	25mm
No. of drill machine to be maintained	10 Nos. (Max.)

**BLASTING:**

Parameters	Quantity
Yield per hole	3 Cu.M
Powder factor	5.50 MT/Kg
Charge per hole	1.50 Kg
Explosive to be used	Gelatin & ANFO
Detonators	Electric
Delay detonators	25 ms

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- 19 -

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**YEARWISE DEVELOPMENT AND PRODUCTION PLAN:****First Year: (Figure 4)**

1. Construction of quarry haul road from the datum level at 283m to a maximum of RL at 349m level approximately.
2. Development of the first overburden and mineral bench B1 at 355m level following the surface contour.
3. The next Benches B2 at 352m level to B11 at 325m level shall be developed at the same time following the respective surface contour.
4. During this year the Bench No. B1 and B11 will be exhausted.
5. The height of all benches will be maintained at 3M and width of 8M.
6. To achieve the target of first year target, mining shall be continued up to Bench 11 (B11).
7. 2<sup>nd</sup> year operation shall be started from the Bench 12.

The synopsis of the parameters of the first-year operation will be as follows:

Parameter	Level (M)	Soil (Cu.M)	Stone (Cu.M)	Total (Cu.M)
Haul road	283-349	90		90
B1	355	30	1500	1530
B2	352	30	2100	2130
B3	349	40	2400	2440
B4	346	40	3000	3040
B5	343	40	3500	3540
B6	340	40	4100	4140
B7	337	50	4600	4650
B8	334	50	4800	4850
B9	331	50	4800	4850
B10	328	50	5000	5050
B11	325	50	5000	5050
<b>Total</b>		<b>560</b>	<b>40800</b>	<b>41360</b>

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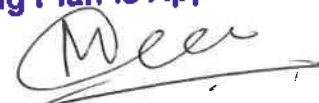
**Second Year: (Figure 5)**

1. 2<sup>nd</sup> year operation shall be started from the Bench 12 (B12) at 322 m level.
2. Subsequently, the Bench No. B13 to B18 will be developed at 319 M to 304m level following the surface contour.
3. During this year the Bench No. B12 to B18 will be exhausted.
4. To achieve the target of stipulated target, mining shall be continued up to Bench18 (B18).

The synopsis of the parameters of the second year operation will be as follows:

Parameter	Level(M)	Soil (Cu.M)	Stone (Cu.M)	Total (Cu.M)
B12	322	50	5000	5050
B13	319	50	5200	5250
B14	316	50	5300	5350
B15	313	50	5500	5550
B16	310	50	5500	5550
B17	307	40	5800	5840
B18	304	40	5800	5840
<b>Total</b>		<b>330</b>	<b>38100</b>	<b>38430</b>

**Mining Plan is Approved**



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**Third Year: (Figure 6)**

1. 3<sup>rd</sup> ear operation shall be started from the Bench 19 (B19) at 301 m level.
2. Subsequently, the Bench No. B20 to B40 will be developed at 298 m to 283m level following the surface contour.
3. The stipulated target could not be achieved within the benches mentioned above, remining from Bench 1 to Bench 20 shall have to be carried out to achieve the stipulated target. Remining of Bench 1 to Bench 20 shall be re-designated as Bench 26 (B26) to Bench 45 (B45).
3. During this year the Remining Bench No. B26 to B28 will be exhausted.
4. To achieve the target of stipulated target, mining shall be continued up to Remining Bench 28 (B28).

The synopsis of the parameters of the third-year operation will be as follows:

Parameter	Level(M)	Soil (Cu.M)	Stone (Cu.M)	Total (Cu.M)
B19	301	40	6000	6040
B20	298	40	6000	6040
B21	295	40	5800	5840
B22	292	20	5600	5620
B23	289	20	5000	5020
B24	286	20	4300	4320
B25	283	20	2000	2020
B26	355	0	1500	1500
B27	352	0	2100	2100
B28	349	0	2400	2400
<b>Total</b>		<b>200</b>	<b>40700</b>	<b>40900</b>

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**Forth Year: (Figure 7)**

1. 4<sup>th</sup> year operation shall be started from the Remining Bench 29 (B29) at 346 m level.
2. Subsequently, the Remining Bench No. B30 to B37 will be developed at 343 M to 322 M level following the surface contour.
3. During this year the Remining Bench No. B29 to B37 will be exhausted.
4. To achieve the target of stipulated target, mining shall be continued up to Remining Bench37 (B37).

The synopsis of the parameters of the fourth-year operation will be as follows:

Parameter	Level(M)	Soil (Cu.M)	Stone (Cu.M)	Total (Cu.M)
B29	346	0	3000	3000
B30	343	0	3500	3500
B31	340	0	4100	4100
B32	337	0	4600	4600
B33	334	0	4800	4800
B34	331	0	4800	4800
B35	328	0	5000	5000
B36	325	0	5000	5000
B37	322	0	5000	5000
<b>Total</b>		<b>0</b>	<b>39800</b>	<b>39800</b>

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**Fifth Year: (Figure 8)**

1. 5<sup>th</sup> year operation shall be started from the Remining Bench 38 (B38) at 319 m level.
2. To achieve the stipulated target of 5<sup>th</sup> year, mining shall be continued up to a portion of the B45 at 298m level..
3. During this year the Remining Bench 38 to a portion of the B45 will be exhausted.

The synopsis of the parameters of the fifth-year operation will be as follows:

Parameter	Level(M)	Soil (Cu.M)	Stone (Cu.M)	Total (Cu.M)
B38	319	0	5200	5200
B39	316	0	5300	5300
B40	313	0	5500	5500
B41	310	0	5500	5500
B42	307	0	5800	5800
B43	304	0	5800	5800
B44	301	0	6000	6000
B45	298	0	1500	1500
<b>Total</b>		<b>0</b>	<b>40600</b>	<b>40600</b>

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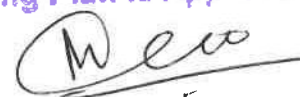
**DISPOSAL OF MINERAL:**

There will be a stockyard to stock the mineral (stone boulders) outside the quarry site/ Reserved Forest. The large rock boulders produced while quarrying will be broken manually to a suitable size in the quarry itself and will be loaded manually to the Trucks/Dumpers for dispatch to the desired locations.

**END USE OF THE MINERAL:**

The Mineral (Stone Boulders) to be quarried will be utilized mainly for construction of roads and buildings. The rock boulders extracted, are to be processed in a Stone Crusher unit to manufacture road metals and stone chips of different sizes to make it suitable for various road construction and other constructional purposes.

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**MINE DRAINAGE:**

There are a few small streams which is controlling the drainage pattern of the area. The rain water and surface runoff from hilltop goes downwards to the flat land towards the southern side of the Contract area. Suitable garland drain will be constructed before rainy season. This drain will pass through a settling tank before water is discharged into natural drainage system. Workings shall be done from 355m RL to 283m RL, so this is not going to affect water table. The drain and the settling tank will arrest the silt and rock fragments produced due to mining activity in the quarry and allow uncontaminated water to take its own course leaving the debris in the drain/ settling tank. The drain and the setting tank shall be cleaned occasionally as and when required.

No water is likely to be encountered during mining and hence no pumping arrangement is made.


**DISPOSAL OF WASTE:**

The waste comprises mainly overburden, which are top soil and left out rock fragments which are not usable. The top soil and waste rock fragments etc. shall have to be preserved for reclamation purposes in future, which have been described in detail in "Progressive Mine Closure Plan".

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**EXTENT OF MECHANISATION:**

As stated earlier this will be a manual quarry with compressed air drilling and blasting. Boulders will be loaded to the trucks/dumpers manually or mechanically and transport to the respective destination.

**MINING EQUIPMENT:**

SL. No.	Particulars	Specification	No.
1.	Drilling	Hand held Jack	
		Hammer drill machine	10
2.	Compressor	400 CFM capacity	4

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**EXPLOSIVES AND BLASTING PARAMETERS:**


Primary blasting parameters:-

Sl. No	Particulars	Specification
1.	Type of explosives	High explosives
2.	Yield per hole	3 Cum
3.	Dia. of hole	25 mm
4.	Charging pattern	
	- Bottom charge	High explosives
	- Column charge	ANFO
5.	Minimum No. of holes to be blasted per day to achieve the daily target	8-10
6.	Manner of blasting	Electrical
7.	Sequence of blasting	Multi holes
8.	Charge per hole	1.50 Kg.
9.	Cartridge	0.50 Kg.
10.	ANFO	2.40 Kg.
11.	Detonators	Short delay –Electric

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**TYPE OF EXPLOSIVES:**

As available in the local market it is suggested to use 25 mm Slurry explosives (Class-II) in the proposed quarry. The available brands are Powergel, Superdyne, Dynex-90 etc.

In addition to above, ANFO (Ammonium Nitrate Fuel Oil Mixture) may be used to reduce the cost of explosive. It is prepared by mixing Prilled Ammonium Nitrate with HSD oil in the proportion of 94.5 : 05.5. The ratio of both the explosives will be as below:

Slurry explosive: ANFO = 37.5 : 62.5

**BLASTING OPERATION:**

The blasting operation shall be undertaken by competent persons (blasters) as per Mining Rules & Regulations in force with maximum precautions to make the blasting operation safe.

Frequency of blasting can be optimized by use of delay detonators to reduce the noise and ground vibration within the threshold limit.

Blasting Pattern, stemming, charge per hole should be designed on the basis of field trials to control the flying rocks.

Adequate sirens, signals, posting of guards at strategic points before blasting shall have to be provided.

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**STORAGE OF EXPLOSIVES:**

The nearest explosive dealer is located at Guwahati which is about 135 Km away from the proposed quarry site. It will be very difficult to procure explosives from Guwahati everyday for blasting purposes. On the other hand, Assam is a very sensitive area so far as extremist activities are concerned and there are very strict laws in force in connection with transportation and storage of explosives. It is therefore suggested to obtain help from the nearest Police Station (Jamunamukh) to procure explosives for 5 to 6 days and store in their custody in an Explosive Van. The explosives so stored in the Police Station may be used for blasting in the quarry as when required. Thereafter, another lot of explosives for the next period may be procured for blasting. This modality is preferable, because to obtain an explosive license for a magazine for storage of explosive and then to maintain the magazine security etc. will be very costly and unsafe.

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**OTHER SITE SERVICES:**

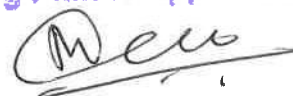
Mining Contract Holder will keep all the basic amenities, office and other requirements as per Mining rules and regulations at the base camp near the proposed quarry area. The following facilities are to be provided for smooth running of the mine.

1. Rest shelter for the quarry workers.
2. First Aid room.
3. Site office and store.
4. Arrangement for drinking water and sanitation.
5. Portable Blasting Shelters at suitable points for use by the blaster.

**LIST OF MAN POWER:**

Sl. No.	Designation	Number
1.	Mine Manager	1
2.	Mining Supervisor	2
3.	Blaster	2
4.	Explosive Carrier	2
5.	Driller	7
6.	Office Staff	5
7.	Security Personal	12

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**ENVIRONMENT MANAGEMENT PLAN:****A) Base Line Information:**

Sl. No.	Particulars	Description
1.	Type of Land	Degraded Forest land, with grasses & shrubs.
2.	Whether clearance under Environment (p) Act, 1986 Required?	Yes.
3.	Existing land use pattern	Vacant land, unsuitable for cultivation or human habitation.
4.	Present land occupation	Settlement                      0% Agriculture                      0% Grass                              70% Shrub                              29% Other tree                        1%
5.	Area already degraded	100.00%
6.	Flora and Fauna	Almost Nil
7.	Water regime	There are few small streams running from top of the hills which are active during rainy season
8.	Human settlement	There are no human settlement within a radius of about 1.1 KM of the proposed site.
9.	Public building, place of worship, Monument and cremation ground	Nil
10.	Does the area fall under	

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- 32 -

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 Govt. of Assam  
 Kahilipara, Ghy-19

	notified area Under Water (prevention & Control of pollution) Act' 1974	No
11.	Quality of air	Not assessed.
12.	Climatic condition	High humid & heavy rainfall. Temperature ranges between 32° C to 6° C in winter.

**Mining Plan is Approved**



Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilpara, Ghy-19

  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/20

**ENVIRONMENTAL IMPACT ASSESSMENT:**

As per an order of Hon'ble Supreme Court dated 27-02-12, it has been decided that all mining projects of minor minerals including their renewal, irrespective of the size of the Contract /contract/lease area would require prior environment clearance. Therefore, proposed Mining Contract Area also attracts prior environmental clearance.

The mining operation in the proposed quarry will have some impact on the environment. However, considering the nature and scale of operation the impact on physical environment from this quarrying operation in this area will be less. The broad outlines of probable impacts on environment from this quarrying operation in the area are detailed below:-

**LAND AND AREA:**

After the mining operation to be carried out in the proposed area measuring 5.0 (five) Hectare, the landscape of the quarrying area will be changed. Presently, the area is covered with grasses and some shrubs. After completion of mining operation there is no scope for agriculture activity in this area, but reclamation of this area with plantation of trees shall have to be undertaken by the Mining Contract Holder at his own cost under a "Mine Closure plan" as described.

**AIR QUALITY:**

The air quality will get affected in and around the area due to mining activities like blasting, movement of trucks etc. Since only manual mining will be carried out in the quarry, the impact on environment will be very less due to the mining activities. However, measures like water spraying and use of delay detonators needs to be applied to reduce the impact on the local environment.

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/201

**Mining Plan is Approved**

*M. Ali*  
Senior Geologist  
Directorate of Geology  
Govt. of Assam  
Kahilipara, Ghy-19

**WATER QUALITY:**

In the rainy season, the water flows down the hill slope directly from south west to north east and goes downwards the nearby fields. All measures to arrest the silt and the rock fragments produced due to mining activity in the quarry including construction of settling tanks has already been suggested in the Mine Drainage chapter. Further it is suggested to analyze water samples at regular intervals to ascertain the quality of water.

**NOISE AND VIBRATION:**

The noise and vibration along with dust are generated due to the following activities while mining:-

1. Operation of mining equipment like drills, compressors etc.
2. Blasting.
3. Movements of transport vehicles.

It is suggested to take following measures to control it by:-

1. Periodic blasting using delay detonators.
2. Arrangement for spray of water in the dust generating areas to suppress the dust.
3. To use thick cover of safety net over the blasting site to prevent splitting out of rock fragments

**SOCIO ECONOMIC ENVIRONMENT:**

The socio economic environment of the locality will improve with upliftment of the economic scenario due to the following reasons:

1. Generation of direct and indirect employment.
2. Development of infrastructure.
3. Growth of business and other economic activities.

**PUBLIC BUILDINGS, MONUMENTS, CREMATION GROUND ETC.:**

The proposed mining site is free from the above mentioned items.

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/27

**Mining Plan is Approved**

*[Signature]*  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilipara, Ghy-19

**PROGRESSIVE MINE CLOSURE PLAN:**

The "Assam Minor Mineral Concession Rules 2013" has made it compulsory to incorporate a "Progressive Mine Closure Plan" and a "Final Mine Closure Plan" in the Mining Plan vide Rule 52(5) (VIII) of the said Rule. But as per the rule, only the "Progressive Mine closure Plan" is to be incorporated in the Mining plan and accordingly the same has been included in this Mining Plan. The "Final Mine closure Plan" shall have to be submitted and obtain approval one year prior to the date of proposed closure of the mine.

**MINE CLOSING OPERATIONS:**

The proposed stone quarry located in a hilly area will have to be operated by 'Opencast method of Mining'. The details of all the workings of the mine for 5 years have been explained in details with extraction of the stone boulder with detailed Plans and sections.

Mine closure plan encompasses rehabilitation process as an ongoing programme designed to restore physical, chemical and biological quality disturbed by the mining activity to a level acceptable to all concerned. It must aim at leaving the area on completion in such a way that rehabilitation does not become a burden to the society after the mining operation is over.

Therefore, Progressive Mine Closure operation is a continuous series of activities starting from the day one of the initiation of the mining project. Here in this present case of stone quarrying, opencast mining shall be carried out with preparation of benches from top of the hilly terrain downwards to the datum level. As described in this mining plan earlier and considering the production schedule, 25 (twenty five) numbers of benches from B1 to B25 shall have be prepared along with re-mining benches from B26 to B45 while mining the stone boulders

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/20

- 36 -

**Mining Plan is Approved**

*Meer*  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19



within the Contract period (See plate of Mine closure Plan-Figure 4). So, from the starting of mining operations onwards while preparing the Bench 1 itself, the Mining Contract Holder shall have to be cautious enough and keep in mind about the activities to be carried out for reclamation of the mined out area.


This stone quarry has large quantity of overburden mainly as top soil and waste rocks. The top soil should be removed and stored separately, while the solid wastes should be stored in external dumps keeping the area to be backfilled free. These external dumps should be stored in benches, which come up during the mining operations. With the progress of the mine face and availability of space for backfilling, the waste rock dumps are first utilized to fill the void up to a planned level. The top soil stored separately should then be laid over it to sustain plan growth.

It may be seen in the plate of the Mine closure Plan that there are in total 45 (forty five) numbers of benches proposed to be created during the mining operation for 5 years. The benches have been marked from No. 1 to 45 in the plate accordingly. As per the process described above, the reclamation work in the Mine closure plan in respect of the mine may be programmed as below:-


5<sup>th</sup> Year: Backfilling of benches with solid waste and plantation with suitable kind of plants at bench after completion of mining operation.

Plantation with suitable kind of plants at last re-mining Bench 26 to Bench 45 along with the surrounding safety zone.

The above schedule of reclamation work may however be altered as per requirement and its suitability.

  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/2014

Mining Plan is Approved

  
Senior Geologist  
Directorate of Geology  
Govt. of Assam  
Kahilipara, Ghy.

**CONCLUSION:**

After detailed analysis of the baseline data available on the present environment scenario of the proposed area and its impact on the present area for production of stones, different controlling measures suggested against adverse impact, brings out the following facts:

1. The proposed area is a degraded forest land having soil cover with grass/shrubby vegetation and outcrop of rocks.
2. The area is not suitable for any agricultural activities.
3. There is no rare, endangered or unique species of flora and fauna found in this area as per record of the Forest Department.
4. There is no protected Archaeological heritage site, Historical monument, Defense establishment, Place of Worship, Cremation ground within 5 Km radius of the area.
5. There are least chances of contamination of the general air due to this mining operation.
6. There will not be any adverse impact on hydrography and water quality of the locality due to mining operation.
7. Adequate preventive measures have been suggested to combat the air and water pollution that may be caused due to the mining operation.
8. A detailed programme for reclamation of the area has been described in the "Progressive Mine Closure Plan" to combat the ecology of the area.
9. There will be significant upliftment of the socio economic scenario of the area due to establishment of this mining project.

Considering all the points mentioned above, and the fact that the materials produced through this mining project will be utilized for the development of infrastructure of the state, it is expected that the Mining Contract as applied for may be granted for the socio economic upliftment and development of this backward region.

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/20

**Mining Plan is Approved**

*(Signature)*  
Senior Geologist  
Directorate of Geology  
Govt. of Assam  
Kahilpara, Ghy-781135

Site Photographs



Plate: 1

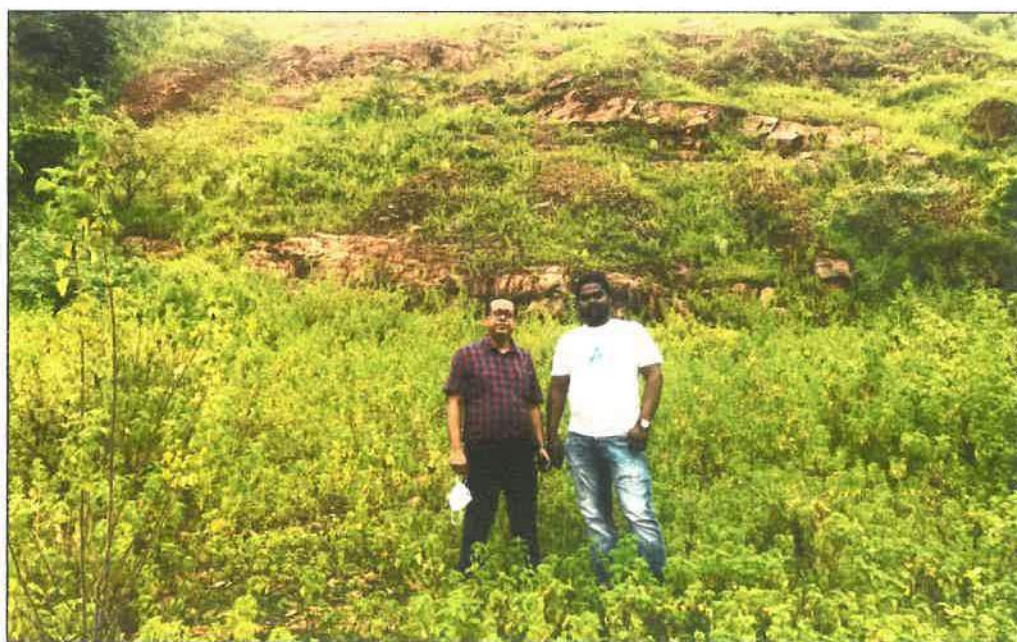


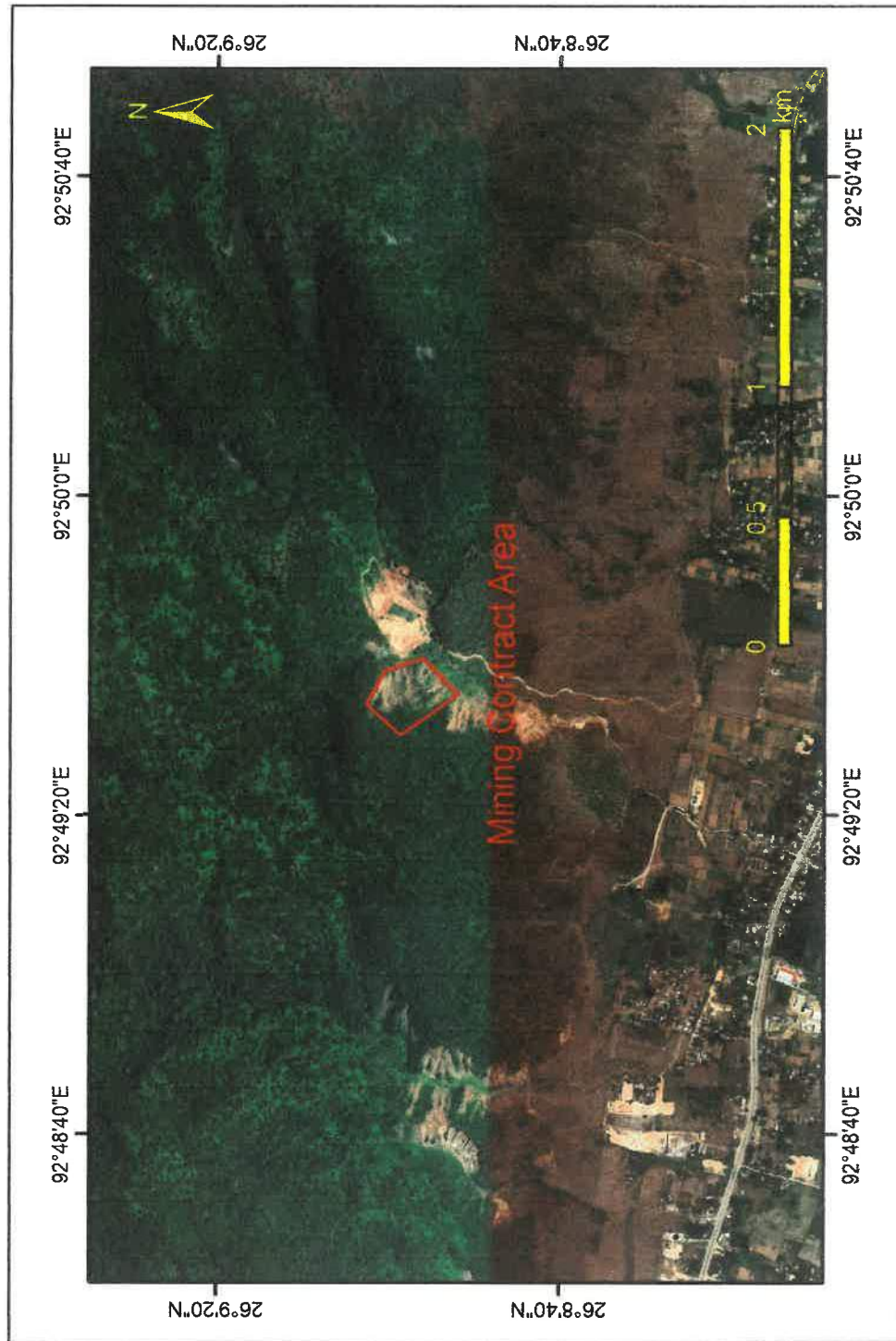
Plate: 2

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/20

**Mining Plan is Approved**

*W. Ali*  
Senior Geologist  
Directorate of Geology  
Govt. of Assam  
Kahilipara, Ghy-19





Google Earth image showing Mining Contract Area for stone.

*Abhijit Bora*  
 Abhijit Bora, Ph.D.  
 Regd No. DGM/RQP/02/20

**Mining Plan is Approved**

*M. Ali*  
 Senior Geologist  
 Directorate of Geology & Mining,  
 Govt. of Assam,  
 Kahilipara, Ghy-19

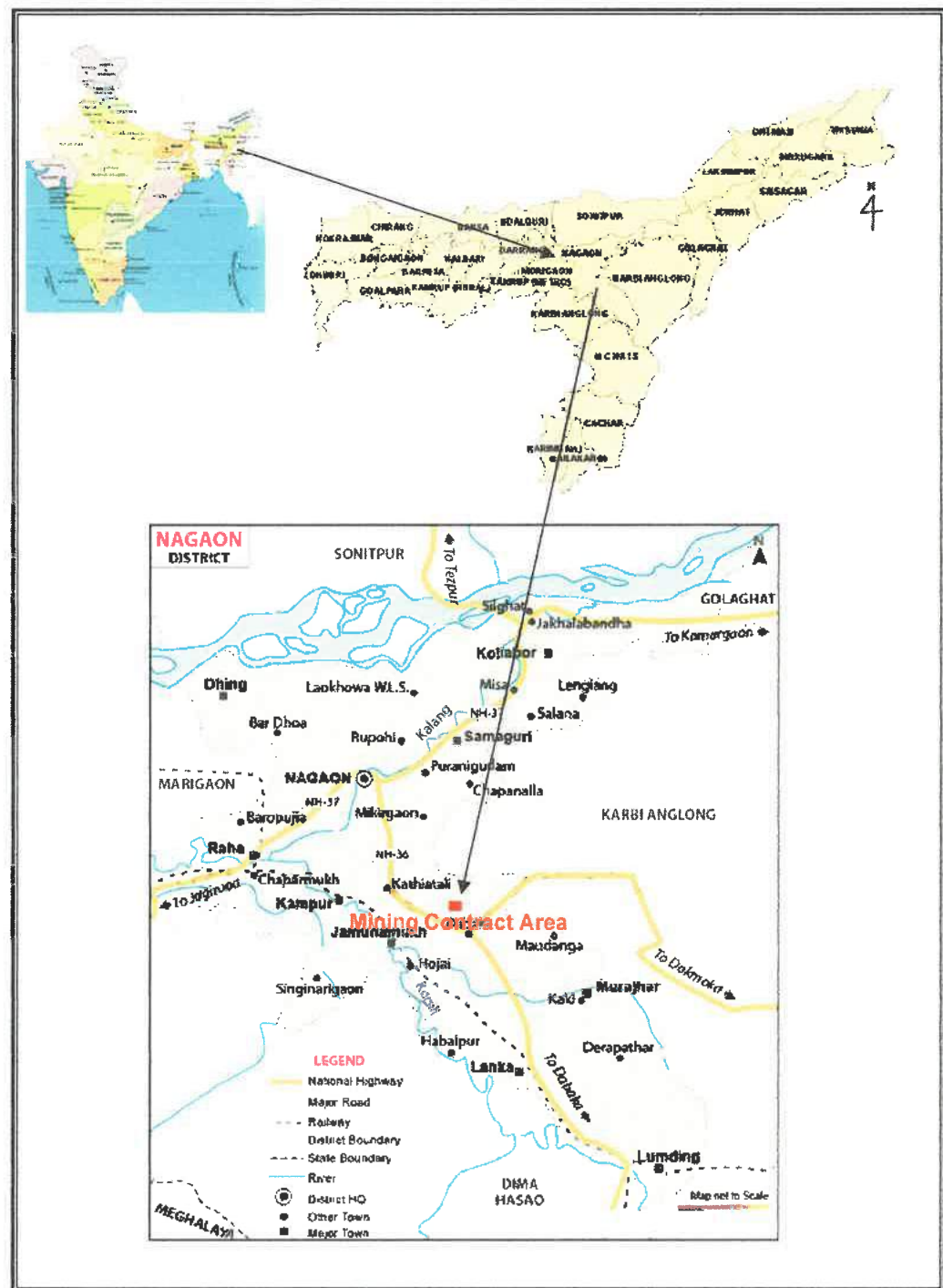


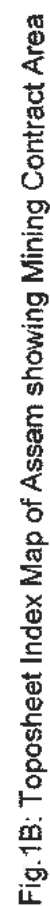
Fig. 1A: Location Map

*Abhijit Bora*  
 Abhijit Bora, Ph.D.  
 Regd. No. DGM/RQP/02/201

**Mining Plan is Approved**

*[Signature]*  
 Senior Geologist  
 Directorate of Geology  
 Govt. of Assam  
 Kahilipara, Ghy-19

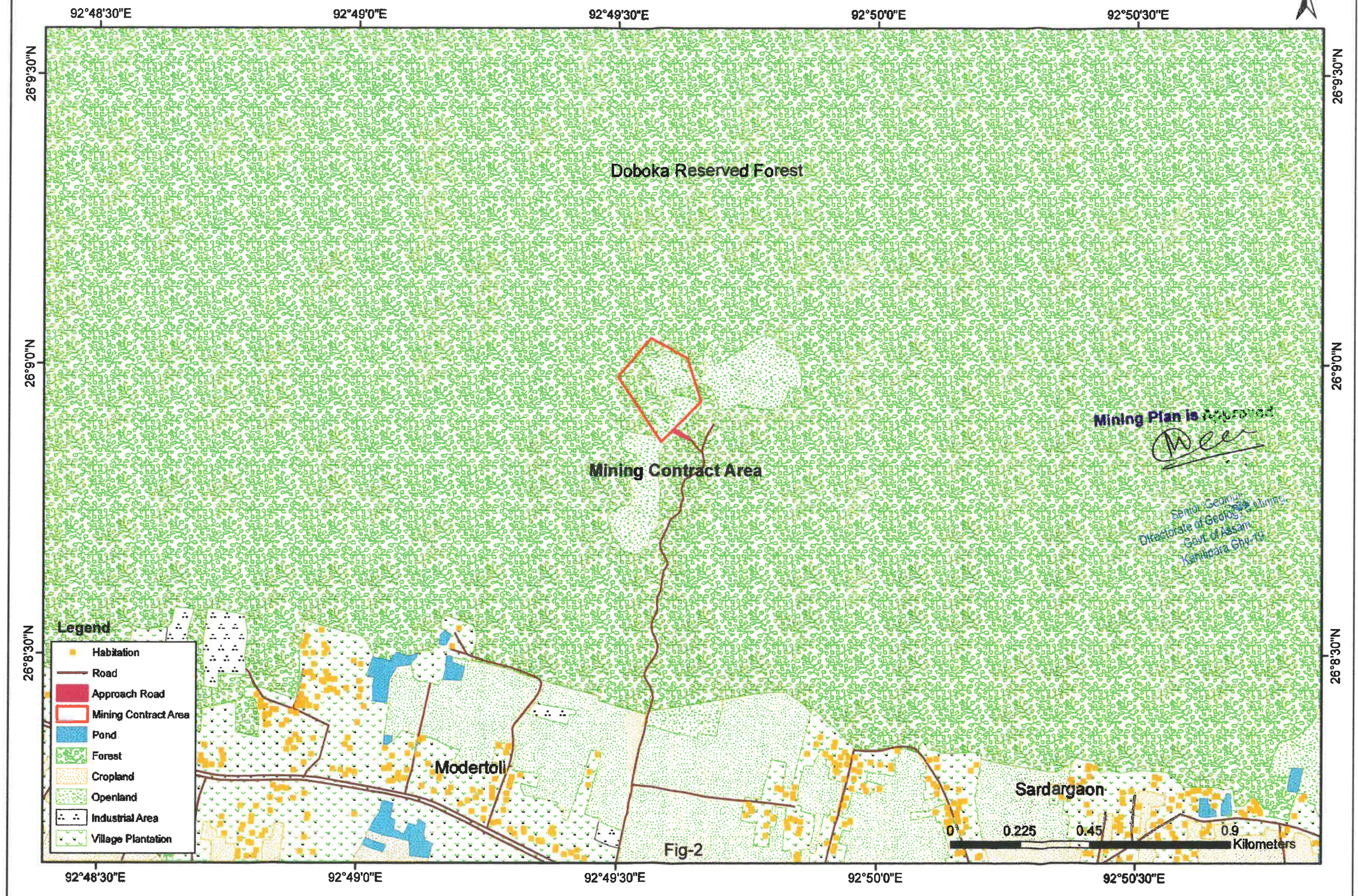




Senior Geologist,  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19



# Key Map of the Mining Contract Area and its Surrounding



Mining Plan is Approved

*(Signature)*

Senior Geomorphologist  
Directorate of Geology & Mining  
Govt. of Assam  
Kamrupa GPO-781001



92°49'30"E

26°9'0"N

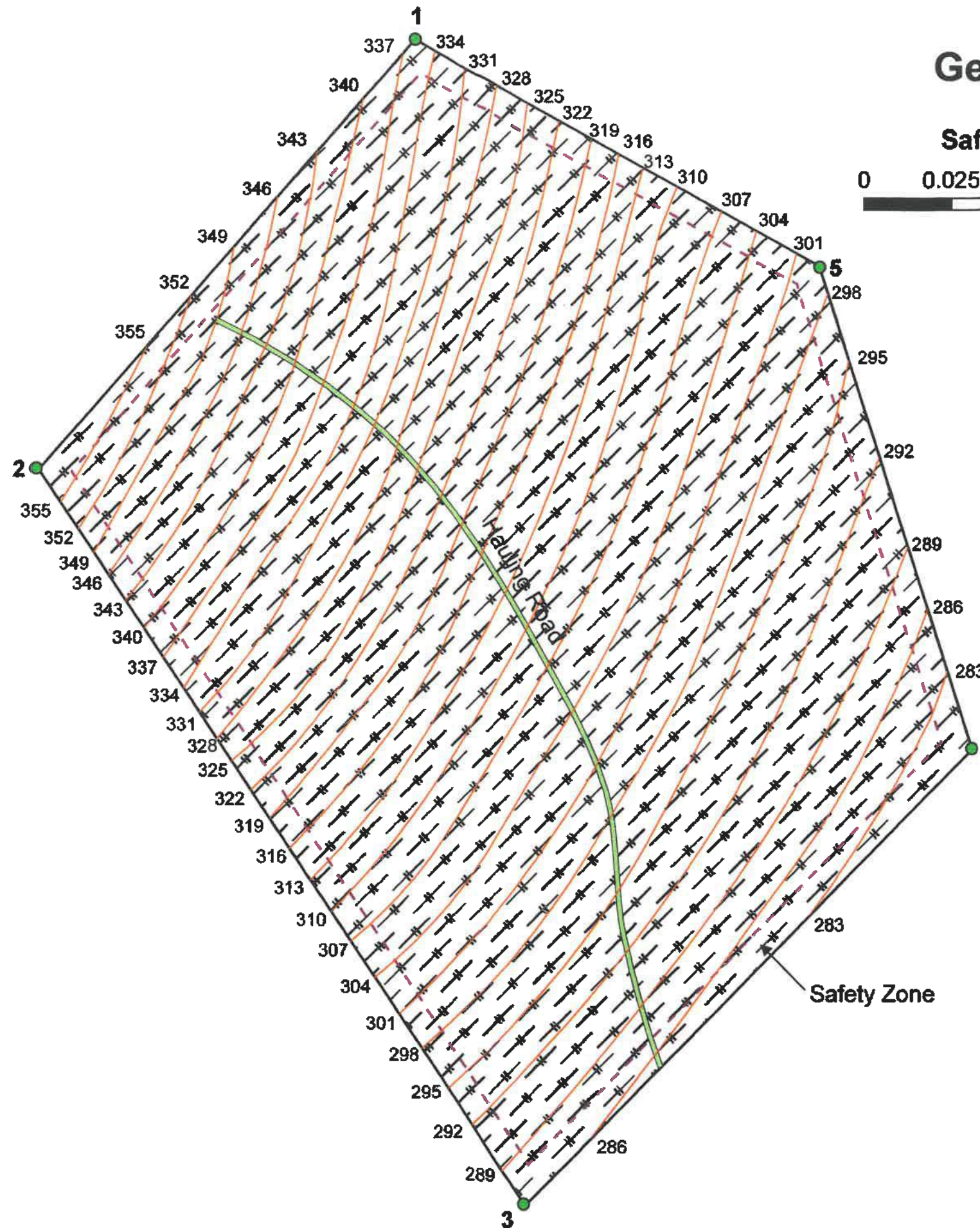


# **Geological Map**

**Area: 5.0 Ha**

**Safety Zone: 0.63 Ha**

0 0.025 0.05 0.1 Kilometers



**Mining Plan is Approved**

*Meu*

Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilpara, Shy-19

Safety Zone

## **Legend**

- Safety Zone
- Contour
- Quartzite

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/2014

**Langkaijuri Stone Mahal**  
Imdad Ali  
Kathiatoli Range,  
Nagaon Forest Division  
Nagaon,  
Dist.: Nagaon, Assam

**Figure: 3**

92°49'30"E

26°9'0"N



92°49'30"E

26°9'0"N



# Surface Plan

Area: 5.0 Ha

Safety Zone: 0.63 Ha

0 0.025 0.05 0.1 Kilometers

Forest Land

Forest Land

Forest Land

Mining Plan is Approved

*[Signature]*

Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilipara, Ghy-19

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

## Legend

- Road
- Contour
- Hauling Road
- - - Safety Zone
- Temp. Pond/Settling Tank
- Proposed Approach Road
- Mining Contract Area

Note: Stockyard for stone and overburden shall be located outside the Mining Contract Area/ Reserved Forest.

Figure: 4

**Langkajuri Stone Mahal**  
Imdad Ali  
Kathiatoli Range,  
Nagaon Forest Division  
Nagaon,  
Dist.: Nagaon, Assam

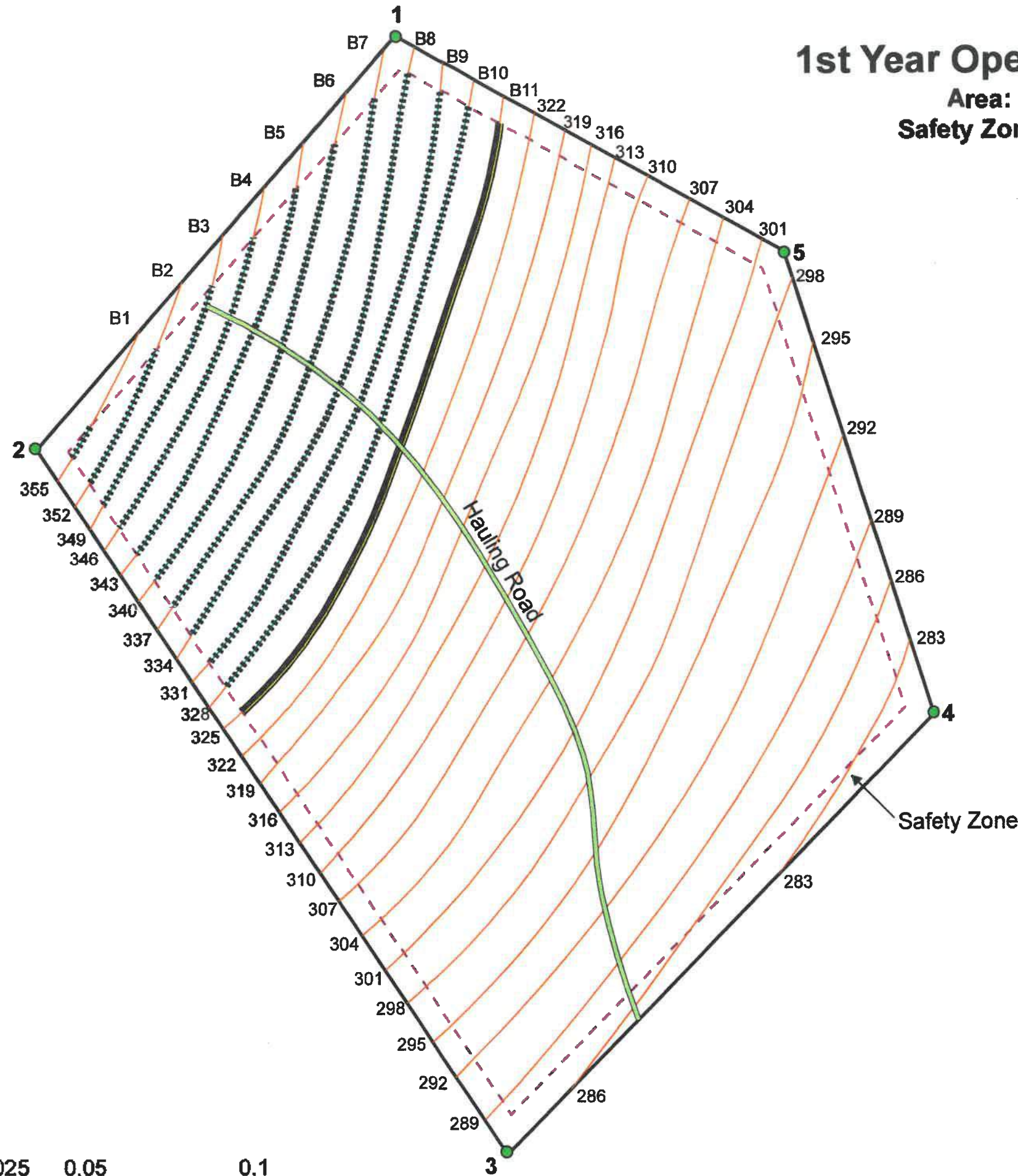


92°49'30"E



# 1st Year Operation Map

Area: 5.0 Ha  
Safety Zone: 0.63 Ha



Mining Plan is Approved

*(Signature)*

Senior Geologist,  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19

Safety Zone

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

**Langkajuri Stone Mahal**  
Imdad Ali  
Kathiatoli Range,  
Nagaon Forest Division  
Nagaon,  
Dist.: Nagaon, Assam

0 0.025 0.05 0.1 Kilometers

Figure: 5

## Legend

- Contour
- Bench
- Exhausted Bench

92°49'30"E

26°9'0"N

26°9'0"N



92°49'30"E

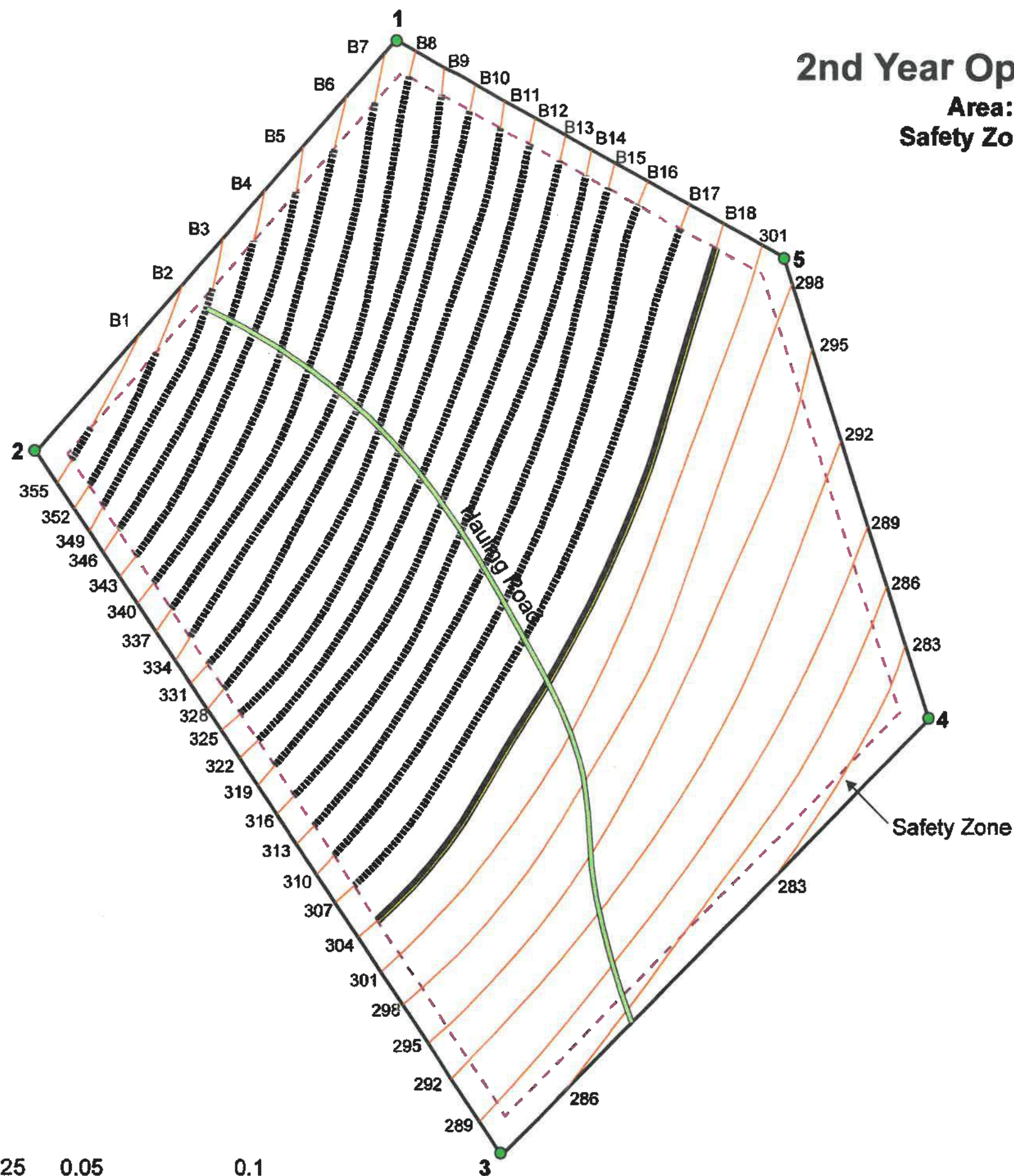
26°9'0"N



## 2nd Year Operation Map

Area: 5.0 Ha  
Safety Zone: 0.63 Ha

26°9'0"N



Mining Plan is Approved

*[Signature]*  
Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19

*[Signature]*  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

**Langkaijuri Stone Mahal**  
Imdad Ali  
Kathiatoli Range,  
Nagaon Forest Division  
Nagaon,  
Dist.: Nagaon, Assam

0 0.025 0.05 0.1  
Kilometers

Figure: 6

### Legend

- Contour
- Bench
- Exhausted Bench

92°49'30"E

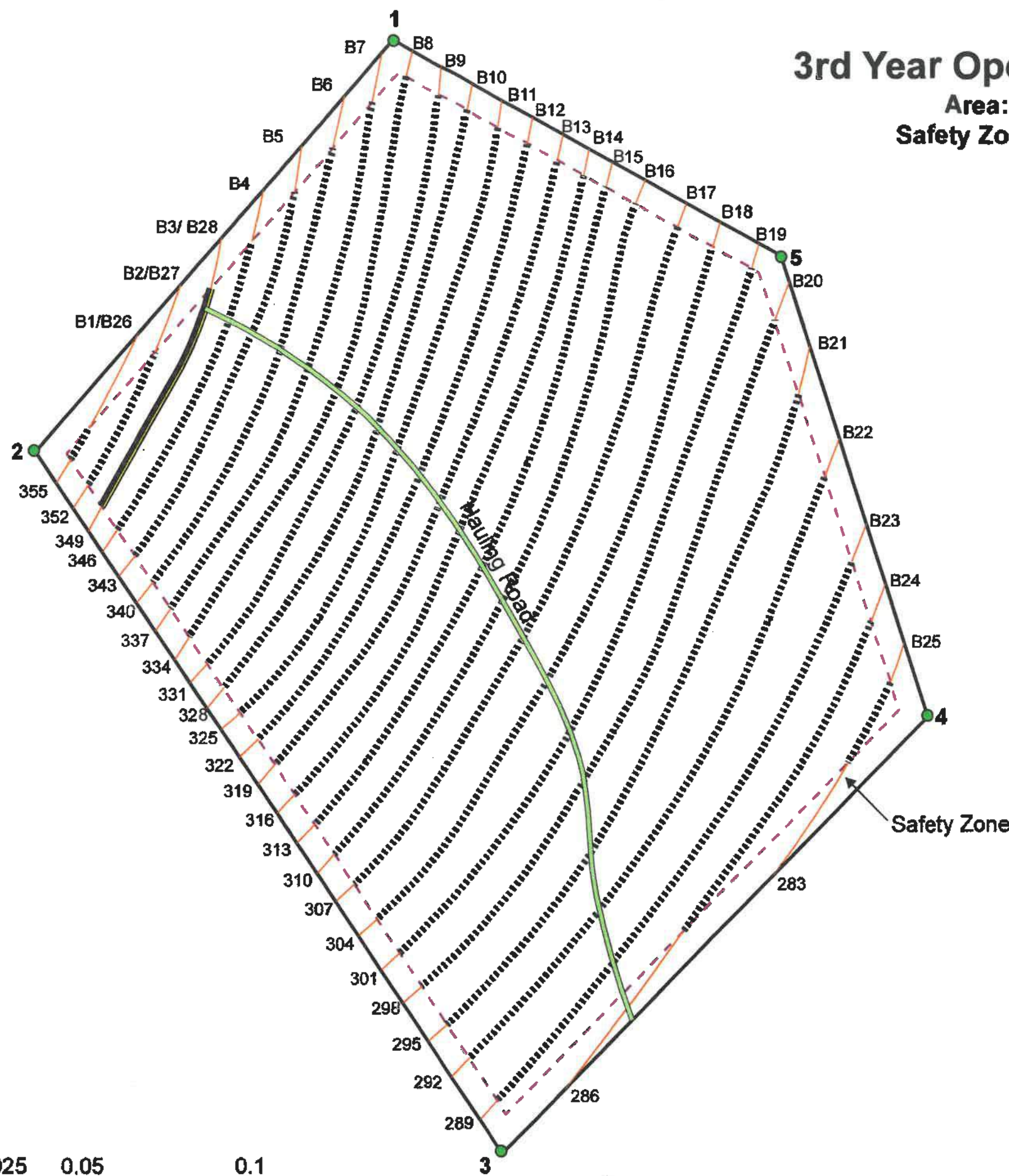
92°49'30"E

26°9'0"N



# 3rd Year Operation Map

Area: 5.0 Ha  
Safety Zone: 0.63 Ha



Mining Plan is Approved

*(Signature)*

Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19

Safety Zone

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

**Langkaijuri Stone Mahal**  
Imdad Ali  
Kathiatoli Range,  
Nagaon Forest Division  
Nagaon,  
Dist.: Nagaon, Assam

0 0.025 0.05 0.1 Kilometers

92°49'30"E

Figure: 7

## Legend

- Contour
- Bench
- Exhausted Bench



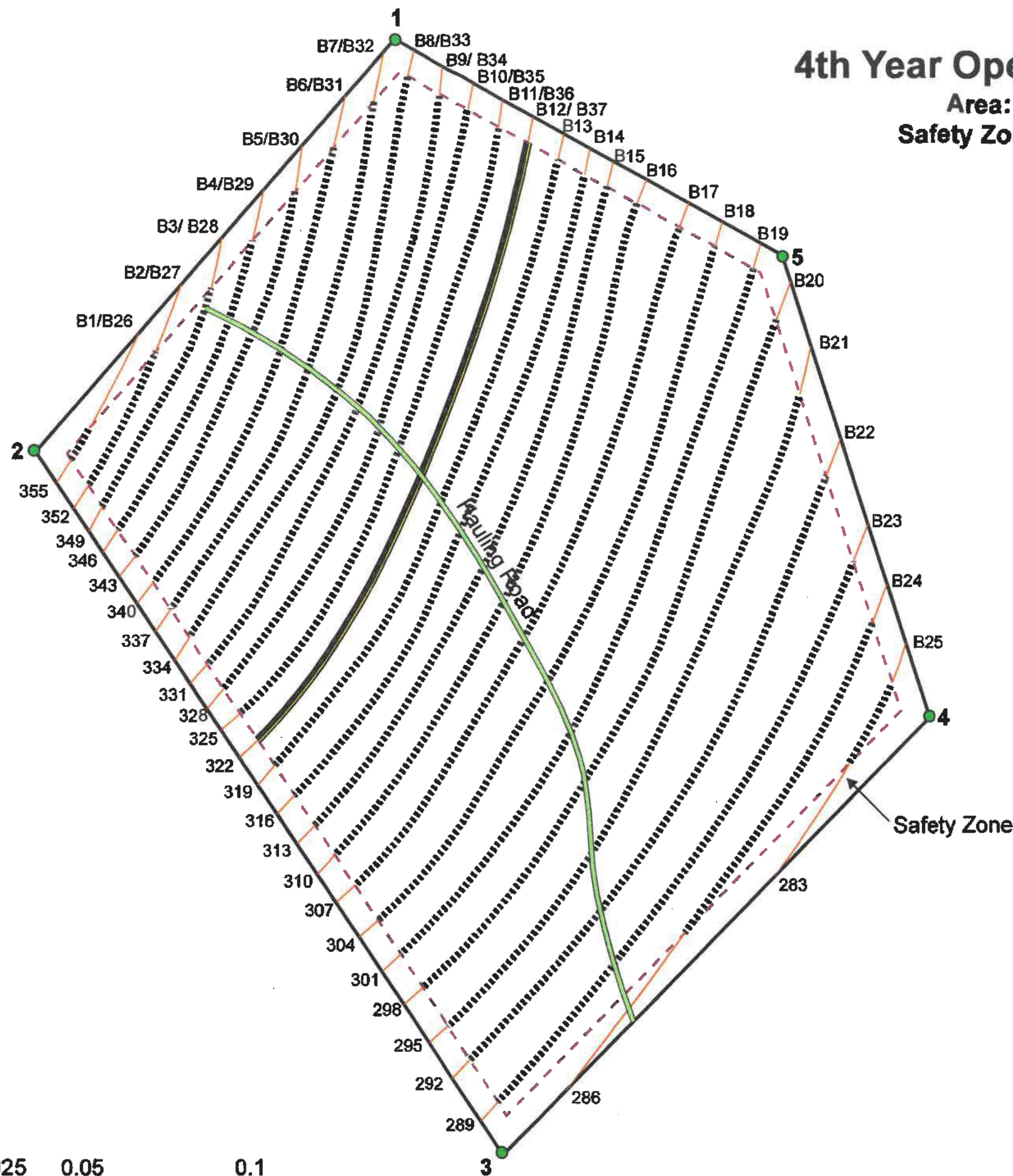
92°49'30"E

26°9'0"N



# 4th Year Operation Map

Area: 5.0 Ha  
Safety Zone: 0.63 Ha



Mining Plan is Approved

*[Signature]*  
Senior Geologist  
Directorate of Geology,  
Govt. of Assam  
Kahilipara Ghy-19

*Abhijit Bora*  
Abhijit Bora, Ph.D.  
Regd No. DGM/RQP/02/2014

**Langkaijuri Stone Mahal**  
Imdad Ali  
Kathiatoli Range,  
Nagaon Forest Division  
Nagaon,  
Dist.: Nagaon, Assam

0 0.025 0.05 0.1 Kilometers

Figure: 8

## Legend

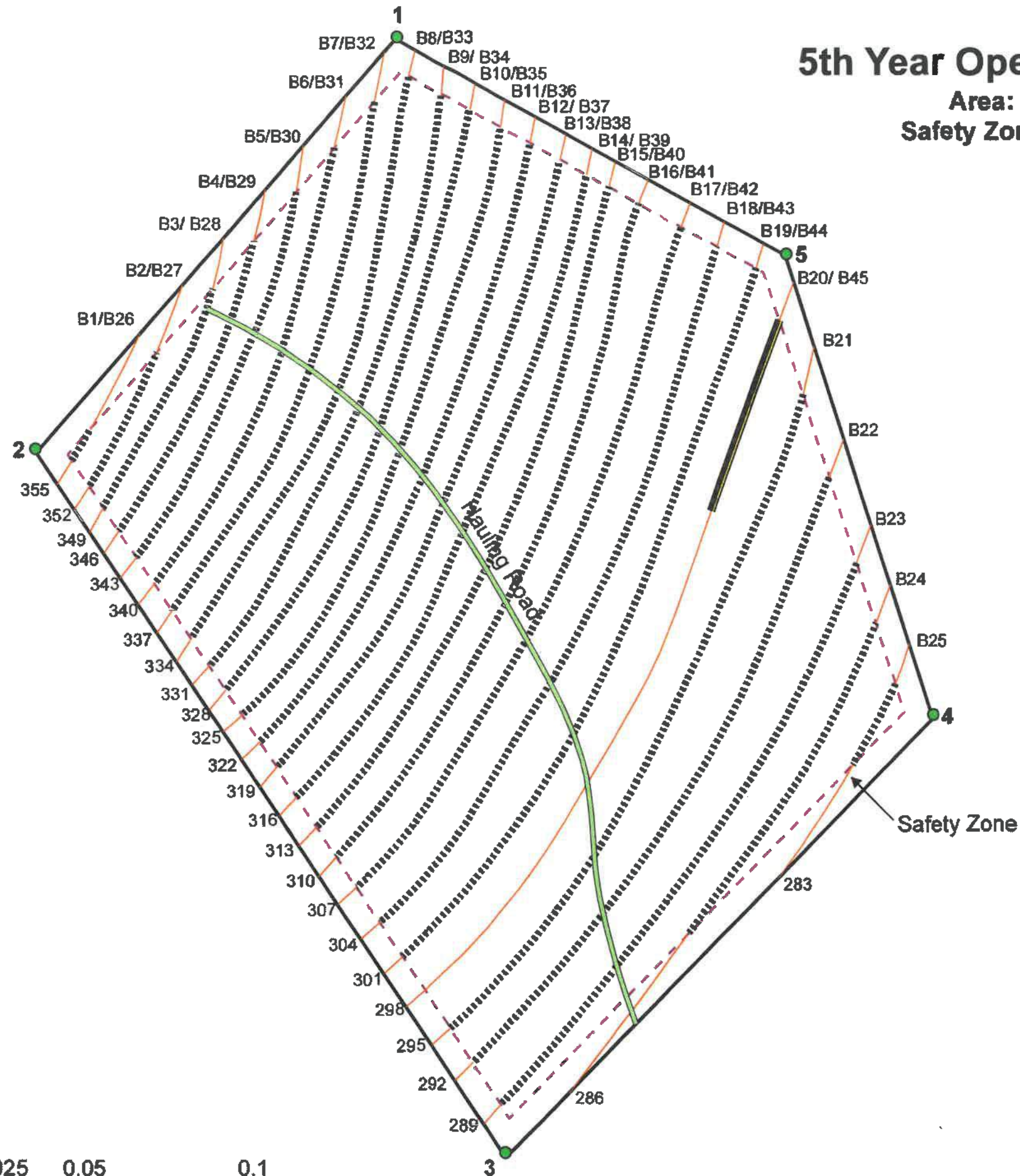
- Contour
- Bench
- Exhausted Bench

92°49'30"E



# 5th Year Operation Map

Area: 5.0 Ha  
Safety Zone: 0.63 Ha



Mining Plan is Approved

*(Signature)*

Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam,  
Kahilipara, Ghy-19

Safety Zone

*(Signature)*  
Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

**Langkaijuri Stone Mahal**  
Imdad Ali  
Kathiatoli Range,  
Nagaon Forest Division  
Nagaon,  
Dist.: Nagaon, Assam

0 0.025 0.05 0.1 Kilometers

Figure: 9

## Legend

- Contour
- Bench
- .... Exhausted Bench

92°49'30"E

26°9'0"N

26°9'0"N



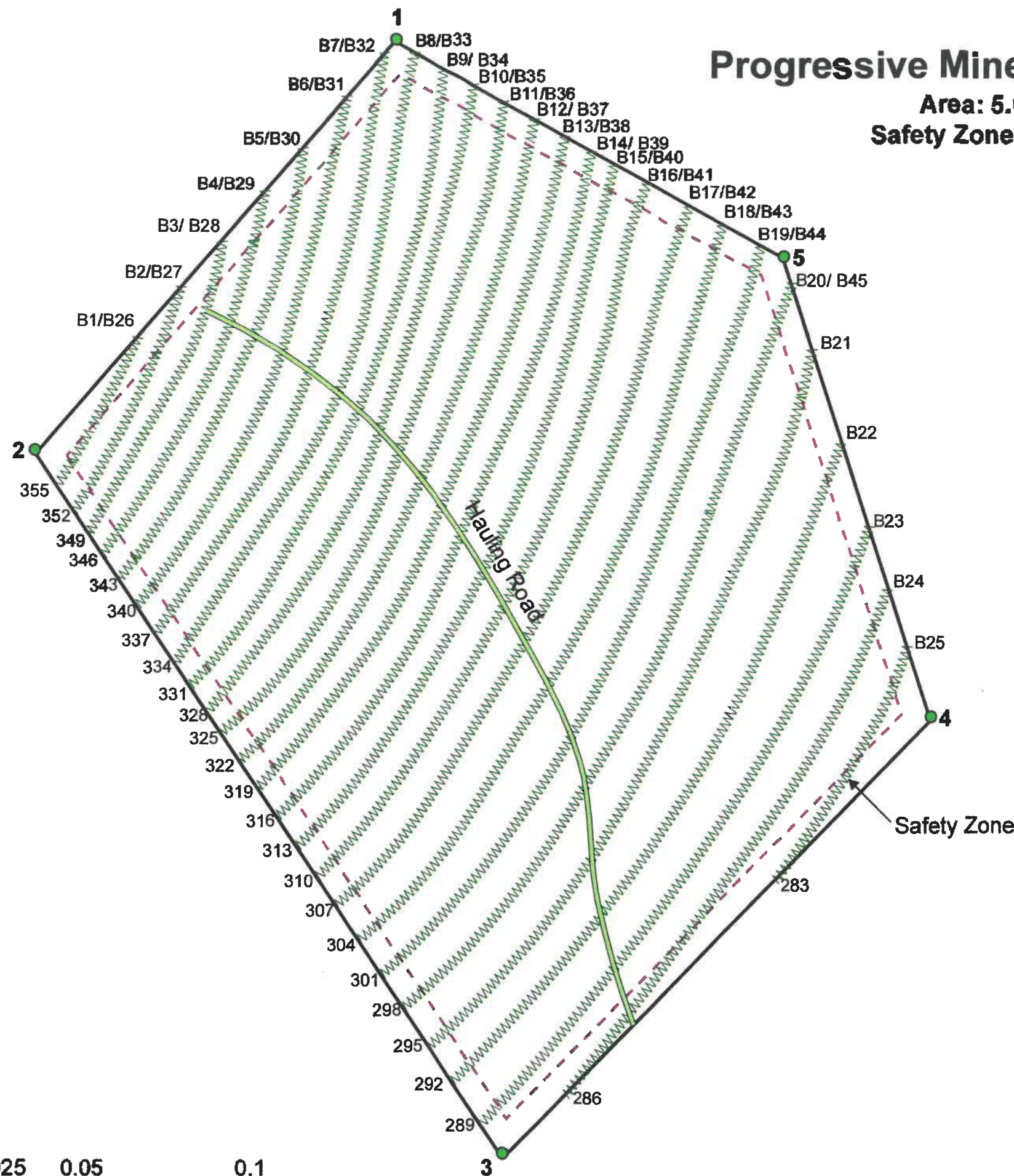
92°49'30"E

26°9'0"N



# Progressive Mine Closure Plan

Area: 5.0 Ha  
Safety Zone: 0.63 Ha



Mining Plan is Approved

*Meu*

Senior Geologist  
Directorate of Geology & Mining,  
Govt. of Assam  
Kahilpara, Ghy-19

*Abhijit Bora*

Abhijit Bora, Ph.D.  
Regd. No. DGM/RQP/02/2014

**Langkaijuri Stone Mahal**  
Imdad Ali  
Kathiatoli Range,  
Nagaon Forest Division  
Nagaon,  
Dist.: Nagaon, Assam



Figure: 10

## Legend

- Contour
- Bench
- Exhausted Bench

92°49'30"E

26°9'0"N





**GOVERNMENT OF ASSAM**  
**DEPARTMENT OF ENVIRONMENT & FORESTS, ASSAM**  
**OFFICE OF THE DIVISIONAL FOREST OFFICER: NAGAON DIVISION NAGAON**  
**Phone & Fax No. 03672-233610** **Email ID- dfonagaont@gmail.com.**

Letter No. FNGT/B/Langkaijuri Stone Mahal/2021/ **4257-58** Dated- **29/09/2021**

To,

The Director,  
Directorate of Geology  
& Mining Assam,  
Kahilipara, Guwahati- 19.

Subject: According of Mining Plan etc. in respect of Langkaijuri Stone Mahal of Doboka R. F. for 5 (five) years.

Reference: The CCF & Nodal Officer, (F. C. Act), O/o the PCCF & HoFF, Assam's letter No. FG. 27/FCA/Proposal/ Lankaijuri Stone Mahal/Nagaon Divn., dated- 13/09/2021 & this Office letter No. FNGT/B/Langkaijuri Stone Mahal/2021/5001-02, dtd. 27/09/2021.

Sir,

With reference to the subject cited above, I have the honour to inform you that, the Chief Conservator of Forests & Nodal Officer, (F. C. Act), O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam has provisionally selected Imdad Ali (user agency) in respect of the Langkaijuri Stone Mahal of 2020-25 in Doboka Reserved Forest, Area- 5.04 Hect. vide his letter No. mentioned under reference of Mineral Concession to extract 1,50,000 m3 Stone for 5 (five) years.

Therefore, I would like to request you to accord necessary approval for Mining Plan/Pre-feasibility report, and Form 1 M, from your end against the said Stone Mahal for 1,50,000 m3 of Stone and 50,000 m3 of Stone for various development works.

In this regard, a copy of schedule "A" & a topo-sheet map No. 83 B/16 indicating the Langkaijuri Stone Mahal, are enclosed herewith for your kind information and necessary action.

Enclosed: As stated above.

Yours faithfully,

**29/09/2021**

(B. Deka, IFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon **B**  
Condt...2

Copy to:-

Sri Imdad Ali, S/o- Abdul Haque, House No. 11, Purbanchal Path, Mathura Nagar, Dispur, Guwahati- 781005 (Assam), for information and necessary action. He is requested to submit the approved Mining Plan/Pre-feasibility report and Form 1 M within (seven) days from the competent authority without fail.

(B. Deka, IFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

Memo No. FNGT/A/Langkaijuri Stone Mahal/2021/ 2516-19  
Copy forwarded for favour of kind information and necessary action to:-

Dated- 29/09/2021

1. The Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati- 37.
2. The Addl. Principal Chief Conservator of Forests (T), Upper Assam Zone, Jorhat.
3. The Chief Conservator of Forests & Nodal Officer, (F. C. Act), O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati- 37.
4. The Conservator of Forests, Northern Assam Circle, Tezpur, Assam.

(B. Deka, IFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

**GEO-REFERENCE MAP SHOWING THE PROPOSED 5.04 HECT.  
LANKAIJURI STONE MAHAL (STONE MAHAL AREA – 5 HECT. &  
APPROACH ROAD AREA - 0.04 HECT AT DABOKA RF UNDER  
KATHIATOLI RANGE, KATHIATOLI**

**GPS POINTS LONGITUDE LATITUDE APPROACH ROAD AREA**

1. 26° 8'52.20"N 92°49'38.30"E
2. 26° 8'53.28"N 92°49'36.61"E
3. 26° 8'53.10"N 92°49'36.40"E
4. 26° 8'52.40"N 92°49'38.31"E

*Assst. Conservator of Forest  
Nagaon Forest Division  
Nagaon*

**GPS POINTS LONGITUDE LATITUDE STONE MAHAL AREA**

1. 26° 9'2.73"N 92°49'33.89"E
2. 26° 8'58.75"N 92°49'30.04"E
3. 26° 8'51.99"N 92°49'35.10"E
4. 26° 8'56.19"N 92°49'39.67"E
5. 26° 9'0.65"N 92°49'38.07"E

*Submitted*

*[Signature]*

*Forest Range Officer  
Kathiatali Range*

**Schedule A**  
**"Information Memorandum"**

1. Name of the Mineral Concession Area: **LANGKAIJURI STONE MAHAL UNDER KATHIATOLI RANGE, KATHIATOLI OF 2020-25.**
2. Status of Land: **Reserve Forest**
3. Grant of Mining Contract for collection of Stone in the mining area.
  - (a) Area and Estimated Reserves = **5.00 Ha with 1,50,000 cu.m Stone.**
  - (b) Period of Lease/Contract = **5 years from date of possession.**
  - (c) Reserve Price: **Rs. 3,70,50,000.00 (Rs. Three Crores Seventy Lakhs Fifty Thousand only).**
  - (d) Earnest Money  
10% on reserve price, i.e., **Rs 37,05,000.00 (Rs. Thirty Seven Lakhs Five Thousand only).** However, 50% of this amount if bidder is an individual and belongs to S.T/S.C/OBC, i.e., **Rs. 18,52,500.00 (Rupee Eighteen Lakhs Fifty Two Thousand Five Hundred only).**
  - (e) G.P.S Coordinates of the corners of mine area: The boundary pillars shall be installed on site by the successful bidder at these and other intermediate locations, as per the directions of competent authority, before start of mining operation.

**North- Boundary of Nagaon South Division**  
**South- Doboka R. F.**  
**East- Doboka R. F.**  
**West- Langkaijuri old Stone Mahal.**

Tracks	Ha	SL. No.	LAT/LONG
Track 1	5.00 Ha.	1	N = 26°08'58.75" E = 092°49'30.04"
		2	N = 26°08'51.99" E = 092°49'35.10"
		3	N = 26°08'56.19" E = 092°49'39.67"
		4	N = 26°09'00.65" E = 092°49'38.07"
		5	N = 26°09'02.73" E = 092°49'33.89"
		6	N = 26°08'53.01" E = 092°49'36.61"
		7	N = 26°08'51.55" E = 092°49'39.51"
		8	N = 26°08'50.67" E = 092°49'39.50"
		9	N = 26°08'54.34" E = 092°49'37.90"

(f) Google Earth image of the Mineral Concession Area-



(g) Representative photograph of the mineral concession area-





(h) Applicable Clearances:

- No Objection Certificate from Deputy Commissioner in case of Mineral concession Area is Revenue land (non-forest land): Already obtained
- Mining Plan approved by the Director, Geology and Mining Department, Govt. of Assam. The preparation of Mining Plan is under process and the Mining plan shall be transferred to the Successful Bidder/Lessee on payment of required applicable charges (Rs. ....).
- Environment Clearance and other clearances to be obtained from State Environment Impact Assessment Authority, Govt. of Assam as per and the instructions of the Ministry of Env. , Forests & Climate Change, Govt. of India issued vide S.O. 1533(E), dated 14.09.2006 and its subsequent amendments. The grant of Environmental Clearance is under process at DEIAA/SEIAA and the same shall be transferred to the Successful Bidder/Lessee on payment of required applicable fee (Rs. ....).
- In case of Mineral concession Area is a Forest land, the Forest Clearance to be obtained under Forest Conservation Act, 1980 from the Ministry of Env. , Forests & Climate Change, Govt. of India shall be transferred to the Successful bidder on payment of Net Present Value-Rs. .... Cost of Compensatory Afforestation -Rs. .... Overhead cost-Rs. .... etc.(Total Rs. ....)

- (i) Quota for Govt. permits: Excess of Mining Plan Quantity over the bid quantity in case of Contract and Permit. However, for lease maximum quota for govt. works as specified by the competent authority.

Rajen

Choudhury

Digitally signed by  
Rajen Choudhury  
Date: 2020.06.10  
22:31:28 +05'30'

DIVISIONAL FOREST OFFICER,  
NAGAON DIVISION, NAGAON



**GOVERNMENT OF ASSAM**  
**DEPARTMENT OF ENVIRONMENT & FORESTS, ASSAM**  
**OFFICE OF THE DIVISIONAL FOREST OFFICER: NAGAON DIVISION NAGAON**

**Phone & Fax No. 03672-233610**

**Email ID-**

Letter No. FNGT/B/Lanka/Stone Mahal/2021/

Dated-

27/09/2021

To,

Sri Imdad Ali,  
 S/o- Abdul Haque,  
 House No. 11, Purbanchal Path,  
 Mathura Nagar, Dispur,  
 Guwahati- 781005.

**Subject:** Provisional letter of Intent (LoI) Granting Mining Permit to allow Minor Mineral in respect of the Mining Area- Langkajuri Stone Mahal of 2020-25 under Doboka R. F. of Kathiatoli Range, Kathiatoli.

**Reference:** The CCF & Nodal Officer (FC Act), Assam O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam vide letter No. FG. 27/FCA/Proposal/Lankajuri Stone Mahal/Nagaon Divn. Dtd. 13/09/2021.

Subject to the appeal provision and other provisions of the Assam Minor Mineral concession Rules, 2013 and other applicable laws, and on approval received from the CCF & Nodal Officer (FC Act), Assam O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam, of your bid amount of Rs. 4,60,05,000/- (Rupees Four crores fifty six lakhs five thousand) only, for Mining of 1,50,000 m3 of Stone for a period of 5 (Five) years from "Langkajuri Stone Mahal of 2020-25 under Doboka R. F. of Kathiatoli Range, Kathiatoli of the Nagaon Forest Division is hereby accepted and you are requested to deposit the security amount within 15 (Fifteen) days from the date of issue of this provisional letter of Intent (LoI) and signing of Permit Agreement in FORM- MC- I, as per provisions of AMMC Rule's 2013. An additional amount 10% on bid value has to be deposited towards "Mines-Minerals, Rehabilitation Dev. & Restoration Fund" & 10% District Mineral Foundation Trust (DMF), Nagaon on the actual royalty at the time of depositing the bid money. Failing to comply with the above directions within the stipulated period, the provisional letter of Intent (LoI) will be cancelled without assigning any reason.

**Details of Deposit:-**

(a) 25% of annual dead rent as security deposit on bid value	= Rs.	23,00,250/-
(b) An additional amount equal 1 month's dead rent on bid value	= Rs.	7,66,750/-
<b>Total</b>	<b>= Rs.</b>	<b>30,67,000/-</b>

(Rupees Thirty lakhs sixty seven thousand) only and others relevant taxes.

Provisional Letter of Intent (LoI) issued to you, being the selected highest bidder and you are asked to prepare/submit the following documents.

1. Prepare Mining Plan by the Director Geology & Mining Department.
2. Apply online through MoEF & CC web portal pariveshan.nic.in for forest land diversion proposal under the Forest (Conservation) Act, 1980
3. Apply for Environmental Clearance.
4. Prepare Environmental Management Plan.

Contd...2

Further, on received of the above, the final settlement order will be issued in favour of you and then only your operation of Langkaijuri Stone Mahal will be started.

So, you are asked to submit as stated above within 60 (sixty) days from the issue of this letter.

(B. Deka, AFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

Copy to:-

The Director, Directorate of Geology & Mining Assam, Kamlipara, Guwahati- 19 for favour of kind information and necessary action.

(B. Deka, AFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

Memo No. FNGT/A/Langkaijuri Stone Mahal/2021/ 2179-5  
Copy forwarded for favour of kind information and necessary action for

Dated- 07/09/2021

1. The Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati- 37.
2. The Chief Conservator of Forests & Nodal Officer (F. C. Act), Assam O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati- 37.
3. The Addl. Principal Chief Conservator of Forests (T), Upper Assam Zone, Jorhat.
5. The Conservator of Forests, Northern Assam Circle, Tezpur, Assam.

(B. Deka, AFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon



খনিজ সম্পদৰ  
অন্বেষণত

GOVERNMENT OF ASSAM  
DIRECTORATE OF  
GEOLOGY AND MINING  
BHU-BIGYAN BHAWAN  
DAKHINGAON, KAHILIPARA, GUWAHATI-19  
Email: [dgmassam@gmail.com](mailto:dgmassam@gmail.com)  
[dgm.assam@gov.in](mailto:dgm.assam@gov.in)  
Dtd. Guwahati, the 11<sup>th</sup> October, 2021.

No. GM/MS /244/ 2580

From :- Sri Ananda Kumar Das, ACS,

Director,

Directorate of Geology & Mining, Assam,

Kahilipara, Guwahati-19.

To :- Imdad Ali.

H. No.11, Purbanchal path, Mathura nagar.

Dispur, Guwahati-06.

Sub :- Regarding submission of petrological report.

Sir,

With reference to the subject cited above I am submitting herewith the petrological study report for the sample submitted by Sri Abhijit Bora, RQP on behalf of Imdad Ali, Purbanchal path, Mathura nagar, Dispur, Guwahati-06. The sample is from Lankajuri stone mahal, Modertoli area of Doboka, Hojai dist.

The petrological study report is prepared in the petrological laboratory.

This is for your information and necessary action.

Enclosure: As stated.

Yours faithfully,

Director,

Directorate of Geology & Mining,


Assam.



## PETROGRAPHIC ANALYSIS REPORT


Sample No	:- 151/ S
Name	:- Sample submitted by Imdad Ali, H.No.11, Purbanchal path Mathura nagar, Dispur, Guwahati- 05.
Location	:- Lonkajuri stone mahal, Modertoli, Doboka, Hojai dist.
Megascopic Description	:- gray color, semi vitrous lustrue.

<u>Microscopic Description-</u>	
1. Grain size	Grain sizes are small.
2. Grain shape	Anhedral
3. Abundance of minerals	Abundance of quartz with opaque minerals.
4. Primary minerals.	Quartz.
5. Secondary minerals	No secondary mineral is seen.
6. Accessory minerals	Opaque minerals as assessorry minerals.
7. Texture	Grains are showing equilgrannular texture.
8. Structural features (If any)	No structural feature could be seen
9. Mutual relationship	Grains are showing interlocking mutual relationship.
10. Study of inclusions	No inclusion is seen.
11. Name of rock	The sample is a composition of quartz and opaque minerals. From the mineralization it can be ascertained it is a metamorphic rock and the rock is quartzite with impurities.
12. Uses	Fractures and joints could not be seen. The rock contains mostly quartz and opaque minerals. As the deposit is a small one, and quartzite with impurities, therefore, it has less industrial value. So, the rock can be used as ordinary stone.

  
 (Sri Barnalee Nath)  
 Joint Director,  
 In-Charge of Petrological Lab  
 Directorate of Geology & Mining,  
 Govt. of Assam.





GRN AS000341691202122E		BARCODE 		Date 26/10/2021-17:19:11		Form ID	
Department Geology and Mining				Payer Details			
Non-ferrous Mining and Metallurgical Industries102 Type of Payment				TAX ID (If Any)			
				PAN No.(If Applicable)			
Office Name DIRECTORATE OF GEOLOGY and MINING				Full Name		Imdad Ali	
Location Kamrup Metro							
Year 2021-2022 One Time				Flat/Block No.		H. No. 11 Purbanchal Path	
Account Head Details			Amount In Rs.	Premises/Building			
0853-00-102-7079-000 Approval of Mining Plan			5000.00	Road/Street		Mathura Nagar Dispur	
				Area/Locality		Guwahati-06	
				Town/City/District			
				PIN		<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	
				Remarks (If Any)  Langkajuri Stone Mahal			
				Amount In	Five Thousand Rupees Only		
Total			5,000.00	Words			
Payment Details STATE BANK OF INDIA				FOR USE IN RECEIVING BANK			
Cheque-DD Details				Bank CIN	Ref. No.	00030302021261052615 IK0BISMEB2	
Cheque/DD No.				Bank Date	RBI Date	26/10/2021 17:20:16 Not Verified with RBI	
Name of Bank				Bank-Branch		STATE BANK OF INDIA	
Name of Branch				Scroll No. , Date		Not Verified with Scroll	

Mobile No. : 9435562929

# **ANNEXURE -1**

## **LOI**





**GOVERNMENT OF ASSAM  
DEPARTMENT OF ENVIRONMENT & FORESTS, ASSAM  
OFFICE OF THE DIVISIONAL FOREST OFFICER: NAGAON DIVISION NAGAON**

**Phone & Fax No. 03672-233610**

**Email ID-**

Letter No. FNGT/B/Lanka/Stone Mahal/2021/

Dated-

27/09/2021

To,

Sri Imdad Ali,  
S/o- Abdul Haque,  
House No. 11, Purbanchal Path,  
Mathura Nagar, Dispur,  
Guwahati- 781005.

**Subject:** Provisional letter of Intent (LoI) Granting Mining Permit to allow Minor Mineral in respect of the Mining Area- Langkajuri Stone Mahal of 2020-25 under Doboka R. F. of Kathiatoli Range, Kathiatoli.

**Reference:** The CCF & Nodal Officer (FC Act), Assam O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam vide letter No. FG. 27/FCA/Proposal/Lankajuri Stone Mahal/Nagaon Divn. Dtd. 13/09/2021.

Subject to the appeal provision and other provisions of the Assam Minor Mineral concession Rules, 2013 and other applicable laws, and on approval received from the CCF & Nodal Officer (FC Act), Assam O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam, of your bid amount of Rs. 4,60,05,000/- (Rupees Four crores fifty six lakhs five thousand) only, for Mining of 1,50,000 m3 of Stone for a period of 5 (Five) years from "Langkajuri Stone Mahal of 2020-25 under Doboka R. F. of Kathiatoli Range, Kathiatoli of the Nagaon Forest Division is hereby accepted and you are requested to deposit the security amount within 15 (Fifteen) days from the date of issue of this provisional letter of Intent (LoI) and signing of Permit Agreement in FORM- MC- I, as per provisions of AMMC Rule's 2013. An additional amount 10% on bid value has to be deposited towards "Mines-Minerals, Rehabilitation Dev. & Restoration Fund" & 10% District Mineral Foundation Trust (DMF), Nagaon on the actual royalty at the time of depositing the bid money. Failing to comply with the above directions within the stipulated period, the provisional letter of Intent (LoI) will be cancelled without assigning any reason.

**Details of Deposit:-**

(a) 25% of annual dead rent as security deposit on bid value	= Rs.	23,00,250/-
(b) An additional amount equal 1 month's dead rent on bid value	= Rs.	7,66,750/-
<b>Total</b>	<b>= Rs.</b>	<b>30,67,000/-</b>

(Rupees Thirty lakhs sixty seven thousand) only and others relevant taxes.

Provisional Letter of Intent (LoI) issued to you, being the selected highest bidder and you are asked to prepare/submit the following documents.

1. Prepare Mining Plan by the Director Geology & Mining Department.
2. Apply online through MoEF & CC web portal pariveshan.nic.in for forest land diversion proposal under the Forest (Conservation) Act, 1980
3. Apply for Environmental Clearance.
4. Prepare Environmental Management Plan.

Contd...2

Further, on received of the above, the final settlement order will be issued in favour of you and then only your operation of Langkaijuri Stone Mahal will be started.

So, you are asked to submit as stated above within 60 (sixty) days from the issue of this letter.

(B. Deka, AFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

Copy to:-

The Director, Directorate of Geology & Mining Assam, Kamlipara, Guwahati- 19 for favour of kind information and necessary action.

(B. Deka, AFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

Memo No. FNGT/A/Langkaijuri Stone Mahal/2021/ 2179-5  
Copy forwarded for favour of kind information and necessary action for

Dated- 07/09/2021

1. The Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati- 37.
2. The Chief Conservator of Forests & Nodal Officer (F. C. Act), Assam O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati- 37.
3. The Addl. Principal Chief Conservator of Forests (T), Upper Assam Zone, Jorhat.
5. The Conservator of Forests, Northern Assam Circle, Tezpur, Assam.

(B. Deka, AFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

## **ANNEXURE -2**

### **Forest NOC**



GOVERNMENT OF ASSAM  
DEPARTMENT OF ENVIRONMENT & FORESTS, ASSAM  
OFFICE OF THE DIVISIONAL FOREST OFFICER: NAGAON DIVISION NAGAON  
Phone & Fax No. 03672-233610 Email ID- dfonagaont@gmail.com.

Letter No. FNGT/B/Langkaijuri Stone Mahal/2021/4257-58 Dated- 29/09/2021

To.

The Director,  
Directorate of Geology  
& Mining Assam,  
Kahilipara, Guwahati- 19.

Subject: According of Mining Plan etc. in respect of Langkaijuri Stone Mahal of Doboka R. F. for 5 (five) years.

Reference: The CCF & Nodal Officer, (F. C. Act), O/o the PCCF & HoFF, Assam's letter No. FG. 27/FCA/Proposal/ Langkaijuri Stone Mahal/Nagaon Divn., dated- 13/09/2021 & this Office letter No. FNGT/B/Langkaijuri Stone Mahal/2021/5001-02, dtd. 27/09/2021.

Sir,

With reference to the subject cited above, I have the honour to inform you that, the Chief Conservator of Forests & Nodal Officer, (F. C. Act), O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam has provisionally selected Imdad Ali (user agency) in respect of the Langkaijuri Stone Mahal of 2020-25 in Doboka Reserved Forest, Area- 5.04 Hect. vide his letter No. mentioned under reference of Mineral Concession to extract 1,50,000 m3 Stone for 5 (five) years.

Therefore, I would like to request you to accord necessary approval for Mining Plan/Pre-feasibility report, and Form 1 M, from your end against the said Stone Mahal for 1,50,000 m3 of Stone and 50,000 m3 of Stone for various development works.

In this regard, a copy of schedule "A" & a topo-sheet map No. 83 B/16 indicating the Langkaijuri Stone Mahal, are enclosed herewith for your kind information and necessary action.

Enclosed: As stated above.

Yours faithfully,

29/09/2021  
(B. Deka, IFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon  
Condt...2



Copy to:-

Sri Imdad Ali, S/o- Abdul Haque, House No. 11, Purbanchal Path, Mathura Nagar, Dispur, Guwahati- 781005 (Assam), for information and necessary action. He is requested to submit the approved Mining Plan/Pre-feasibility report and Form 1 M within (seven) days from the competent authority without fail.

(B. Deka, IFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

Memo No. FNGT/A/Langkaijuri Stone Mahal/2021/ 2516-19  
Copy forwarded for favour of kind information and necessary action to:-

Dated- 29/09/2021

1. The Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati- 37.
2. The Addl. Principal Chief Conservator of Forests (T), Upper Assam Zone, Jorhat.
3. The Chief Conservator of Forests & Nodal Officer, (F. C. Act), O/o the Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati- 37.
4. The Conservator of Forests, Northern Assam Circle, Tezpur, Assam.

(B. Deka, IFS)  
Divisional Forest Officer,  
Nagaon Division, Nagaon

**ANNEXURE -3**  
**Petrological Study Report**



খনিজ সম্পদৰ  
অন্বেষণত

GOVERNMENT OF ASSAM  
DIRECTORATE OF  
GEOLOGY AND MINING  
BHU-BIGYAN BHAWAN  
DAKHINGAON, KAHILIPARA, GUWAHATI-19  
Email: [dgmassam@gmail.com](mailto:dgmassam@gmail.com)  
[dgm.assam@gov.in](mailto:dgm.assam@gov.in)  
Dtd. Guwahati, the 11<sup>th</sup> October, 2021.

No. GM/MS /244/ 2580

From :- Sri Ananda Kumar Das, ACS,

Director,

Directorate of Geology & Mining, Assam,

Kahilipara, Guwahati-19.

To :- Imdad Ali.

H. No.11, Purbanchal path, Mathura nagar.

Dispur, Guwahati-06.

Sub :- Regarding submission of petrological report.

Sir,

With reference to the subject cited above I am submitting herewith the petrological study report for the sample submitted by Sri Abhijit Bora, RQP on behalf of Imdad Ali, Purbanchal path, Mathura nagar, Dispur, Guwahati-06. The sample is from Lankajuri stone mahal, Modertoli area of Doboka, Hojai dist.

The petrological study report is prepared in the petrological laboratory.

This is for your information and necessary action.

Enclosure: As stated.

Yours faithfully,

Director,


Directorate of Geology & Mining,

Assam.

## PETROGRAPHIC ANALYSIS REPORT

Sample No	:- 151/ S
Name	:- Sample submitted by Imdad Ali, H.No.11, Purbanchal path Mathura nagar, Dispur, Guwahati- 05.
Location	:- Lonkajuri stone mahal, Modertoli, Doboka, Hojai dist.
Megascopic Description	:- gray color, semi vitrous lustrue.

<u>Microscopic Description-</u>	
1. Grain size	Grain sizes are small.
2. Grain shape	Anhedral
3. Abundance of minerals	Abundance of quartz with opaque minerals.
4. Primary minerals.	Quartz.
5. Secondary minerals	No secondary mineral is seen.
6. Accessory minerals	Opaque minerals as assessorry minerals.
7. Texture	Grains are showing equilgrannular texture.
8. Structural features (If any)	No structural feature could be seen
9. Mutual relationship	Grains are showing interlocking mutual relationship.
10. Study of inclusions	No inclusion is seen.
11. Name of rock	The sample is a composition of quartz and opaque minerals. From the mineralization it can be ascertained it is a metamorphic rock and the rock is quartzite with impurities.
12. Uses	Fractures and joints could not be seen. The rock contains mostly quartz and opaque minerals. As the deposit is a small one, and quartzite with impurities, therefore, it has less industrial value. So, the rock can be used as ordinary stone.

  
 (Sri Barnalee Nath)  
 Joint Director,  
 In-Charge of Petrological Lab  
 Directorate of Geology & Mining,  
 Govt. of Assam.





CHALLAN  
TR Form -5(a)




GRN	AS000181891202122E	BARCODE	04/10/2021-11:45:16		Form ID
Department Geology and Mining			Payer Details		
Non-ferrous Mining and Metallurgical Industries102			TAX ID (If Any)		
Type of Payment			PAN No.(If Applicable)		
Office Name DIRECTORATE OF GEOLOGY and MINING			Full Name		Imdad Ali
Location Kamrup Metro			Flat/Block No.		H.No. 11 Purbanchal Path
Year 2021-2022 One Time			Premises/Building		
Account Head Details		Amount in Rs.	Road/Street		Mathura Nagar
0853-00-102-7080-000		1000.00	Area/Locality		Dispur Guwahati- 06
Petrological report			Town/City/District		
			PIN		
			Remarks (If Any)		
			Langkajuri Stone Mahal		
			Amount In		One Thousand Rupees Only
Total		1,000.00	Words		
Payment Details STATE BANK OF INDIA			FOR USE IN RECEIVING BANK		
Cheque-DD Details			Bank CIN	Ref. No.	00030302021041094178 IK0BHFXBH7
Cheque/DD No.			Bank Date	RBI Date	04/10/2021 11:39:02 Not Verified with RBI
Name of Bank			Bank-Branch		STATE BANK OF INDIA
Name of Branch			Scroll No. , Date		Not Verified with Scroll

Department ID :

Mobile No. : 9435562929



GRN AS000341691202122E		BARCODE 		Date 26/10/2021-17:19:11		Form ID	
Department Geology and Mining				Payer Details			
Non-ferrous Mining and Metallurgical Industries102 Type of Payment				TAX ID (If Any)			
				PAN No.(If Applicable)			
Office Name DIRECTORATE OF GEOLOGY and MINING				Full Name		Imdad Ali	
Location Kamrup Metro							
Year 2021-2022 One Time				Flat/Block No.		H. No. 11 Purbanchal Path	
Account Head Details			Amount In Rs.	Premises/Building			
0853-00-102-7079-000 Approval of Mining Plan			5000.00	Road/Street		Mathura Nagar Dispur	
				Area/Locality		Guwahati-06	
				Town/City/District			
				PIN		<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	
				Remarks (If Any)  Langkajuri Stone Mahal			
				Amount In	Five Thousand Rupees Only		
Total			5,000.00	Words			
Payment Details STATE BANK OF INDIA				FOR USE IN RECEIVING BANK			
Cheque-DD Details				Bank CIN	Ref. No.	00030302021261052615 IK0BISMEB2	
Cheque/DD No.				Bank Date	RBI Date	26/10/2021 17:20:16 Not Verified with RBI	
Name of Bank				Bank-Branch		STATE BANK OF INDIA	
Name of Branch				Scroll No. , Date		Not Verified with Scroll	

Mobile No. : 9435562929