

Letter No. 5964 Date 15/11/2018

To

The Tahasildar, Hatadihi,

Sub: Nurugundi Murrom Quarry of Sri Tapas Kumar Pathy, Managing Partner, Fortune Group, At/Po- Charampa, P.S.-Charampa, District- Bhadrak (2.09 Acers or 0.845 Ha.) Environment Clearance regarding.

Sir,

As the project of Nurugundi Murrom Quarry involving an area of **2.09 Acers or 0.845 Ha** i.e. less than 05 Ha., needs for grant of environmental clearances for the above project, The proposal has been appraised as per the provisions and on the basis of the documents enclosed with the application such as checklist, Form-1, prefeasibility Report, Approved Mining Plan etc. and observations of the District Expert Appraisal Committee, Keonjhar vide letter No **1203** date **25.09.2018**.

It is a proposed mining of minor mineral - Murrom from Nurugundi Murrom Quarry located at village- Nurugundi, Tahasil- Hatadihi, District- Keonjhar, Odisha with total production capacity of **27720** cum (RoM) of Morrum for the period from 2017-2018 to 2021-2022 over lease area of 2.09 Acers or 0.845 Ha. The Nurugundi Murrom Quarry has been negotiated by Tahasildar Hatadihi to Sri Tapas Kumar Pathy, Managing Partner, Fortune Group, At/Po- Charampa, Ps-Charampa, District- Bhadrak . The mining plan along with progressive mine closure plan of this mining project has been approved by the Deputy Director Geology, O/o the Joint Director Geology, Keonjhar on 22.09.2017. Mineable reserves as per the approved mine plan are 58065 cum with total production capacity of **27720** cum (RoM) during the lease period as stated in the approved mining plan. There is no forest land involved in the lease area, There is no protected areas i.e. National Park, Sanctuary, Habitat for Migratory Birds, Tiger Reserve, Protected Monuments, inter-State boundary and critically polluted area as identified by CPCB etc. located within 01 km from the boundry of protected area any mining / quarry activities is not permissible. Beyond 01 K.M. and up to 10 K.M. distance from boundary of protected area provisions of Environmental protection Act. 1986 is applicable as per letter No 2974/BWL Lease dt. 06.10.2018 of Divisional Forest Officer, Keonjhar wild life Division, Anandapur .There is no court case / litigation pending against the project. Considering the information/documents furnished by the project proponent, the District level Expert Appraisal Committee (DEAC) after due considerations of the relevant documents submitted by the project proponent have recommended for Environmental Clearance with certain stipulations. The District level Environment Impact Assessment Authority (DEIAA) after considering the proposal and recommendations of DEAC, Keonjhar hereby accords Environmental Clearance in favour of the project i.e Nurugundi Morrum Quarry under Hatadihi Tahasil up to the lease period i.e.2017-18 to 2021-22 as submitted by the Tahasildar Hatadihi .

Stipulated Conditions: -

- 1) This environmental clearance shall be valid for the lease period as recommended by the lease granting authority.
- 2) The project proponent shall take statutory clearance /approval /permission from the concerned authorities in respect of his project as and when required.
- 3) Any change in mining technology/scope of working shall not be made without prior approval of the DEIAA.
- 4) The applicant will submit half-yearly compliance report on post environmental monitoring in respect of the stipulated terms and conditions in the Environmental Clearance to the District level Environmental Assessment Authority (DEIAA) ,Keonjhar,SPCB & Regional Office of the Ministry of Environment & Forest, Odisha on 1st June and 1st December of each Calendar year.
- 5) Any change in the calendar plan including excavation, quantum of mineral and waste shall not be made.
- 6) Mining activity shall be carried out as per approved mining plan prepared for this project.
- 7) It shall be ensured that sand mining does not in any way disturb the flow pattern of the river water.
- 8) Sand/Morrum quarrying shall not be carried out in streams within 1/5 of the width of the stream bed from the bank.
- 9) Sand/Morrum mining shall not be carried out within 200 m of any existing structure such as bridges, dams, weirs, intake structure (s) either for irrigation or drinking water purposes, or any other cross drainage structure
- 10) Sand/Morrum mining operations shall not affect the existing sources for irrigation or drinking water or industrial purpose.
- 11) Vehicles hired for transportation of Morrum from the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- 12) The depth of the sand/Morrum mining shall not exceed 3 m. or water level whichever isles,
- 13) Permission from the competent Authority shall be obtained for drawl of groundwater, if any, required for the project.
- 14) The vehicles shall not be overload and shall be covered with tarpaulin,
- 15) Conservation measures shall be taken for protection of flora and fauna.
- 16) Personnel working in the project shall be provided with requisite safety devices such as masks, gloves etc.
- 17) The proponent shall take necessary measures to ensure no adverse impacts due to mining operations on the Human Habitation existing nearby.

2. Copy to Additional Chief Secretary, Forests & Environment Dept., Government of Odisha for kind information.
3. Copy to Chairman, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, unit-8, Bhubaneswar for kind information.
4. Copy to Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for kind information.
5. Copy to Chairman, Central Pollution Control Board, CBD-cum-office Complex, East ArjunNagar, New Delhi-110032 for kind information.
6. Copy to Chairman, State Environment Impact Assessment Authority (SEIAA), Odisha, Qr. No. 5RF-2/1, Unit-IX, Bhubaneswar- 751022
7. Copy to Sri Tapas Kumar Pathy, Managing Partner, Fortune Group, At/Po- Charampa, Ps-Charampa, District- Bhadrak for kind information.
8. Copy to Chairman/Member/ Member secretary, DEIAA, Keonjhar for kind information.
9. Copy to Chairman, DEAC, Keonjhar for kind information.
- ✓ 10. Copy to D.I.O. N.I.C., Keonjhar for kind information and updating the E.C. in Website of Keonjhar District.
11. Copy to Guard file for record.
- 12.

Member Secretary,

[Signature]
15-11-18

District Level Environment Impact Assessment Authority (DEIAA),
Keonjhar

11

D.I.O. N.I.C. Keonjhar

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MINING PLAN

WITH

PROGRESSIVE MINE CLOSURE PLAN

Submitted Under Rule 28 (4) of OMMC Rule 2016

ON

Nuarugudi Morrum Quarry over an area of 2.09
Acres or 0.845 hectares in village Nuarugudi of
Hatadihi Tahasil of Keonjhar District of Odisha

For

Tapas Kumar Pathy,
Managing Partner, Fortune Group,
At/Po- Charampa, Ps- Charampa,
Dist – Bhadrak, Odisha.

Prepared By

Mr. P. K. Swain,
RQP/OD/041/2016,
Swain Bhawan,
In Front of ICICI Bank
Mining Road, Keonjhar,
Odisha.PIN-758001

Mail Id : pabitrakumar.swain@yahoo.co.in.

APPROVED

S. K. Dalal
22/09/12
(S. K. Dalal)
Deputy Director Geology
O/o the Joint Director Geology
Keonjhar



MINING PLAN
WITH
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Swain Bhawan,
In Front of ICICI Bank
Mining Road, Keonjhar,
Odisha.PIN-758001**

Mail Id: pabitrakumar.swain@yahoo.co.in.

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PKSWAIN
RQP/OD/041/2016

LIST OF PLATES

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2	II	Lease plan	1: 3,960 and 1 : 50,000
3	III	Surface Plan	1 : 1,000
4	IV	Geological Plan with section	1 : 1,000
5	V	Development Plan with section	1 : 1,000
6	VI	Conceptual Plan with section	1 : 1,000
7	VII	Progressive Mine Closure Plan	1 : 1,000



LIST OF ANNEXURE

PARTICULARS	Annexure No.
Letter from Tahasildar for preparation of Mining Plan	I
Letter from Tahasildar regarding concession period	I(A)
Copy of RQP Certificate	II
Copy of Trace map with Land schedule authenticated by Revenue Inspector	III
Copy of Voter Identity Card of Lessee	IV
Certificate from Revenue Inspector regarding demarcation of the lease area	V


P.K.SWAIN
RQP/OD/041/2016



CONSENT LETTER FROM LESSEE

The Mining plan and Progressive Mine Closure Plan in respect of **Nuarugudi Morrum Quarry over an area of 2.09 Acres or 0.845 hectares** in village Nuarugudi of Hatadihi Tahasil of Keonjhar District of Odisha belonging to Tapas kumar Pathy, Managing Partner, Fortune Group, Charampa, Bhadrak, have been prepared under Rule 28 (4) of OMMC Rule 2016 by Sri Pabitra Kumar Swain, RQP, Regd. No-RQP/OD/041/2016 and the qualified person recognized under Rule 20(2) of Odisha Minor Mineral Concession Rules, 2004.

I request the Joint Director of Geology, Keonjhar, Odisha to make further correspondence with RQP regarding modification/rectification, if any, of the mining plan and progressive mine closure plan in the following address: -

Pabitra Kumar Swain, RQP
Regd. No-RQP/OD/041/2016
Swain Bhawan, In Front of ICICI Bank,
Mining Road, Keonjhar, Odisha.
E.mail:- pabitrakumar.swain@yahoo.co.in
Ph No-09437716169

I hereby undertake that the Mining Plan with Progressive Mine Closure Plan prepared by the RQP shall be deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respect.

FORTUNE GROUP

Managing Partner

Signature of the Lessee in full

Tapas Kumar Pathy,
Managing Partner, Fortune Group,
At/Po-Charampa, Ps-Charampa,
Dist – Bhadrak, Odisha

Place: Charampa

Date:

CERTIFICATE FROM RQP



Certified that the provision of Odisha Minor Mineral Concession Rule 2016 have been observed in the Mining Plan with Progressive Mine Closure Plan under Rule 28 (4) OMMC Rules, 2016 in respect of **Nuarugudi Morrum Quarry over an area of 2.09 Acres or 0.845 hectares** in village Nuarugudi of Hatadihi Tahasil , belonging to Tapas kumar Pathy, Managing Partner, Fortune Group, Charampa, Bhadrak District and wherever specific permissions are required, the lessee will approach the concerned authorities of Joint Director of Geology, Keonjhar, Odisha.

Certified that the informations furnished in this Mining Plan with Progressive Mine Closure Plan are correct to the best of my Knowledge.


P.K.Swain,
RQP/OD/041/2016.

CERTIFICATE FROM THE LESSEE



The provisions of Mines Act, Rules and Regulations made there under have been observed in the Mining plan with Progressive Mine Closure Plan in respect of **Nuarugudi Morrum Quarry over an area of 2.09 Acres or 0.845 hectares** in village Nuarugudi of Hatadihi Tahasil of Keonjhar District of Odisha belonging to Tapas kumar Pathy, Managing Partner, Fortune Group, Charampa, Bhadrak District, Odisha and wherever specific Permissions are required, the applicant will approach the DGMS and the State government as the case may be. Further, standards prescribed by DGMS in respect of miner's health will be strictly implemented.

FORTUNE GROUP

Tapas Kumar Pathy
Managing Partner

Place: Charampa

Date:

Signature of the Lessee in full

Tapas Kumar Pathy,
Managing Partner, Fortune Group,
At/Po-Charampa, Ps-Charampa,
Dist – Bhadrak, Odisha

FORM - O
Preparation of Mining Plan for Quarry Lease by RQP
 [See rule 28(4)]



MINING PLAN FOR WINNING OF MORRUM FROM NUARUGUDI MORRUM QUARRY IN VILLAGE NUARUGUDI UNDER PADHIARIPALLI PANCHAYAT, TAHASIL OF HATADIHI OF KEONJHAR DISTRICT.

[CATEGORY: B₂ (B1/B2) As specified by MoEF vide Notification No. J-13012/12/2013-IA-II (I) dated 24.12.2013]

1.	Name & Address of the Lessee	:	Tapas Kumar Pathy, At/Po-Charampa, Ps-Charampa, Dist -Bhadrak, Odisha.			
2.	Particular of the Area (Acreage, Boundary Description & Land Schedule) (Attach location map and surface plans showing the existing features of the area with contours at 2m interval)					
A Key plan and surface plan is attached as Plate No-		I & III				
	Topo-sheet No.	:	73K/2			
	Latitude	:	21° 15' 17.7 "N to 21° 15' 21.9"N			
	Longitude	:	86° 20' 21.1"E to 86° 20' 25.7"E			
	Village	:	Nuarugudi			
	Taluk/Tahsil	:	Hatadihi			
	District and State	:	Keonjhar of Odisha			
	Khasra No./Plot No./	:	Khata no	Plot no	kisam	Area(acres)
			108	1086	Patita	0.45
				1087		0.17
				1091/1112		1.12
				1085/1252		0.35
			Total			2.09
	Lease Area (Hectares)	:	0.845 Ha (Refer lease Sketch Plate-II)			
	Whether the area is recorded to be in Forest (Please specify whether Protected, Reserved etc.)	:	The entire quarry lease area of 0.845 Ha belongs to non forest land (Patita).			
	Existence of public road/railway line	:	There is no existence of public road and railway line within the Lease area. However, the area is connected to a PWD road from Chenapdi to Hadagada near Chetanakedra Chhaka via Bidyadharpur at a distance of 8 km.			

APPROVED

S. K. Dalal
22/09/16

(S. K. Dalal)

Deputy Director Geology
 O/o the Joint Director Geology
 Keonjhar



Others		
Nearby Important Market	:	The nearby market is Bidyadharpur at a distance of 4.0 km from the lease area.
Telecom Facilities	:	Telecommunication facilities have vastly improved with the advent of mobile phones. At Bidyadharpur the telecom facilities are available.
Postal facilities	:	Postal facilities are available at Bidyadharpur
Transport Facilities	:	The lease area is well connected to SH 53 near Chhenapadi via Bidyadharpur, Chetanakendra Chhaka at a distance of 17 Km with a metal road. Therefore, transport facilities are very good for this lease area.
Land use pattern (Forest, Agriculture, Grazing, Barren etc.)	:	Total lease hold area is barren not fit for agriculture as the area is covered with morrum
3. Status of the Lessee: (Private Individual/ Private Company/ Public Sector Undertaking/ Joint Sector Undertaking/ Others)	:	Private Company
4. Period of the concession	:	5 Years (2017-18 to 2021-22)
5. Mineral intended to be won	:	Morrum
6. Name, Address & Registration No. of RQP preparing the mining plan with validity of Recognition:	:	P.K. Swain, Regd. No.-RQP/OD/041/2016, Swain Bhawan, In Front of ICICI Bank, Mining Road, Keonjhar, Odisha Mobile-09437716169 E.Mail : pabitrakumar.swain@yahoo.co.in Validity-03/04/2026
7. Order No. & date of Competent Authority granting the concession: (copy of the order to be attached)	:	Grant order No- 2722/Date 18.07.2017 (Annexure No- I) & 3251/Date 15.09.17(Annexure No I(A))
8. If, forest area, whether forest clearance obtained: (Attached copy of forest clearance)	:	The entire lease area of 0.845 Ha belongs to Patita kism .

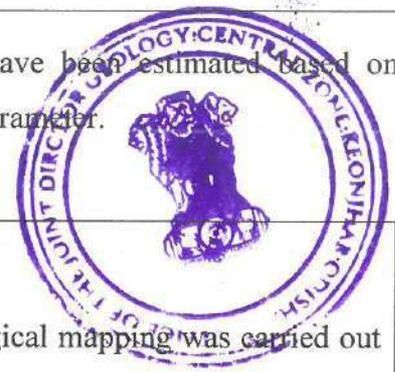
(S. K. Dalal)

Deputy Director Geology
O/o the Joint Director Geology
Keonjhar

P.K. SWAIN

RQP/OD/041/2016

9. <u>Reserves</u> (Estimation to be based on the exploration, if any, carried out in the area or on the local parameters)	: Reserves have been estimated based on the local parameter.
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Basis and Parameters of Reserve Estimation:

Based on the topographical survey of the entire lease area, geological mapping was carried out and Geological plan has been prepared on a scale of 1:1000 with contour interval of 2m. The existing pit has been marked. Based on that pit, attempts have been made to mark the morrum in the Surface Geological Plan. Based on the geological plan and the contour base plan, the Geological cross sections have been prepared which is enclosed as Plate No – IV.

From the geological study of the exposed lease hold area, it can be expected that deposit may extend 8 m from the top surface. Proved and probable resources have been estimated during the preparation of this mining plan. Proved resource has been estimated by taking 4 m below the existing surface exposure and probable resource has been estimated by taking 2 m below the proved limit and possible resource has been estimated by taking 2 m below the probable limit.

Method of Resources estimation

Cross sectional area method has been adopted for the estimation of geological and mineable resources. The cross sectional area multiplied with length of influence of respective section, recovery factor to form the volume of geological resources. A symbolic representation may be out linked to calculate the reserve as below :

- Where
- G = CLB
 - G = Geological reserve in Cubic meter
 - C = Cross sectional area in square metres
 - L = Length of influence in metres
 - B = Recovery factor (100%)

Estimation of Geological Resource

The geological resources estimated are given below:

Category	Section Line	Sectional Area	Length of Influence	Volume (m ³)	Recovery Factor (100%)	Quantity of Morrum in m ³
		(m ²)	(m)			
a	b	c	d	e= c x d	f	g=exf
Proved	XY	235	105	24,675	100	24,675
Total		235	105	24,675	100	24,675

Probable	XY	159	105	16,695	100	16,695
Total		159	105	16,695	100	16,695
Possible	XY	159	105	16,695	100	16,695
Total		159	105	16,695	100	16,695
Grand Total				58,065	100	58,065

Summary of geological Reserve:

Category	Total Quantity m ³
Proved	24,675
Probable	16,695
Possible	16,695
TOTAL	58,065



Mineable Reserves

The mineable reserve has been calculated by considering ultimate pit slope of the area leaving 7.5m from the lease boundary. While assessing the mineable reserves of the deposit proved & probable categories of mineral resources have been considered and accordingly the morrum reserves are calculated assuming loss due to its proximity with the lease boundary. The mineable reserve is estimated as follows:

Category	Section Line	Sectional Area	Length of Influence	Volume (m ³)	Recovery Factor (100%)	Quantity of Morrum in m ³
		(m ²)	(m)			
a	b	c	d	e= c x d	f	g=exf
Proved	XY	191	90	17,190	100	17,190
Total		191	90	17,190	100	17,190
Probable	XY	117	90	10,530	100	10,530
Total		117	90	10,530	100	10,530
Grand Total				27,720	100	27,720

Summary of Mineable Reserve:

Category	Total Quantity m ³
Proved	17,190
Probable	10,530
TOTAL	27,720

APPROVED

S. K. Dalal
22/09/17

(S. K. Dalal)
Deputy Director Geology
O/o the Joint Director Geology
Kannihaz

P.K. Swain
P.K. SWAIN
RQP/OD/041/2016

10. Mining	
(a) Whether manual or semi-mechanized or mechanized	Semi-mechanised method
(b) If semi-mechanized or mechanized, Number, type and capacity of machines to be used	: The proposed mining will be done in a single shift basis by deploying following Machine/ equipment 1. Excavator PC 200 with bucket capacity 2.5 m ³ - 1 Nos 2. Dumper -18 MT capacity 3. Hyva- 5 nos 4. Loader – 1 Nos
(c) Whether drilling and blasting will be Made use of, if yes, state monthly Quantity of explosives to be consumed:	: Not applicable



Summarized statement showing the year wise production of road metal

year	Section Line	Sectional Area	Length of Influence	Volume (m ³)	Recovery Factor (100%)	Quantity of Morrum in m ³
		(m ²)	(m)			
a	b	c	d	e= c x d	f	g=exf
1 st Year (2017-18)	XY	112	90	10,080	100	10,080
Total		112	90	10,080	100	10,080
2 nd Year (2018-19)	XY	111	90	9,990	100	9,990
Total		111	90	9,990	100	9,990
3 rd Year (2019-20)	XY	28	90	2,520	100	2,520
Total		28	90	2,520	100	2,520
4 th Year (2020-21)	XY	28	90	2,520	100	2,520
Total		28	90	2,520	100	2,520
5 th Year (2021- 22)	XY	29	90	2,610	100	2,610
Total		29	90	2,610	100	2,610
Grand Total				27,720	100	27,720

(d) Benching pattern (Height x Width)	: 3m x 3m
(e) Face lay out (attached development Plan)	: The development Plan is attached as Plate No- V
(f) Quarry Floor level (RL) at the end of the year period of the concession	: During the plan period, one no of quarry


(S R, Dalal)
 Deputy Director Geology
 D/o the Joint Director Geology
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 RQP/OD/041/2016



will be developed. The Production has been proposed from the western part of the area for five years and the mining will be from west to east direction. The average production for these years will be around 5,544 m³. The proposed average dimension for this pit will be 52 m x 90 m x 6.0 m. The proposed quarry floor will be 44 m. The proposed pit lay out plan have been shown in the development plan.

(g) Quantity of mineral to be won (Annual Level of Production) :

5,544 m³

It has been planned to develop the fresh area for five years. It is proposed to bring the quarry into scientific shape by adopting proper benching pattern, keeping the height & width of the benches at 3mx5m each. The year wise production of the road metal are as follows:

Year wise production of Road Metal and Waste are indicated below

Year	Production of Morrum (m ³)
1 st Year (2017-18)	10,080
2 nd Year (2018-19)	9,990
3 rd Year (2019-20)	2,520
4 th Year (2020-21)	2,520
5 th Year (2021-22)	2,610
Total	27,720

(h) Quantity of overburden to be removed (Show location of such disposal in Development) :

Nil

(i) Whether heavy blasting to be adopted If yes, location of nearest habitation (to be shown in the surface plan) :

Not Applicable

APPROVED

 (S. K. Dalal)
 Deputy Director Geology
 O/p the Joint Director Geology
 Konihas


 P.K. SWAIN
 RQP/OD/041/2016



	(j) Safety precautions to be adopted	:	The safety equipments such as Helmets, Safety shoes, Goggles and Hand gloves will be supplied to the workers.																								
	(k) Brief description on method of Procurement and storage of explosive	:	Not Applicable																								
11.	<u>Waste Disposal</u> (a) Location (show it in the development plan)	:	Not Applicable																								
	(b) Area covered	:	Not Applicable																								
	(c) Environmental safeguards for such disposal	:	Not Applicable																								
12.	<u>Mine drainage</u> (Give details of total make of water during dry and rainy season and its method of handling).	:	Not Applicable																								
13.	<u>Mineral processing</u> (Give details of processing including sizing, sorting, generation of rejects/fines etc).	:	The morrum produced from the quarry will be supplied for construction of road, railway etc.																								
14.	(a) No. of trees to be uprooted due to mining operation (b) Programme of Plantation	:	<p>Since the deposit is within waste land, no trees will be up rooted during the mining operation. It has been planned to make plantation around the safety zone as follows :</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Extent (m²)</th> <th>No. of Saplings</th> <th>Species</th> </tr> </thead> <tbody> <tr> <td>1st Year (2017-18)</td> <td>244</td> <td>28</td> <td rowspan="5">Peepal, Banyan, Mango, Neem, Acacia, Subabul, Chakunda etc.</td> </tr> <tr> <td>2nd Year (2018-19)</td> <td>252</td> <td>28</td> </tr> <tr> <td>3rd Year (2019-20)</td> <td>252</td> <td>28</td> </tr> <tr> <td>4th Year (2020-21)</td> <td>252</td> <td>28</td> </tr> <tr> <td>5th Year (2021-22)</td> <td>252</td> <td>28</td> </tr> <tr> <td>Total</td> <td>1260</td> <td>140</td> <td></td> </tr> </tbody> </table>	Year	Extent (m ²)	No. of Saplings	Species	1 st Year (2017-18)	244	28	Peepal, Banyan, Mango, Neem, Acacia, Subabul, Chakunda etc.	2 nd Year (2018-19)	252	28	3 rd Year (2019-20)	252	28	4 th Year (2020-21)	252	28	5 th Year (2021-22)	252	28	Total	1260	140	
Year	Extent (m ²)	No. of Saplings	Species																								
1 st Year (2017-18)	244	28	Peepal, Banyan, Mango, Neem, Acacia, Subabul, Chakunda etc.																								
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4 th Year (2020-21)	252	28																									
5 th Year (2021-22)	252	28																									
Total	1260	140																									
15.	<u>Manpower</u> (a) Supervisory : (inclusive of statutory Personnel)	:	<table border="1"> <thead> <tr> <th>Supervisory personnel</th> <th>Statutory personnel</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>3</td> </tr> </tbody> </table>	Supervisory personnel	Statutory personnel	Total	2	1	3																		
Supervisory personnel	Statutory personnel	Total																									
2	1	3																									

(S. K. Dalal)
Deputy Director Geology
O/o the Joint Director Geology


P.K.SWAIN
RQP/OD/041/2016

(b) Non-Supervisory (skilled, semi-skilled & unskilled) :	Skilled Manpower: 2 unskilled: 5
(c) OMS (Output per manshift) : 3.0 M ³	<p>Total Production during plan period : 7,720 M³</p> <p>Average production of sand/annum : 5,544 M³</p> <p>Working days in the year : 300 days (in an average)</p> <p>Production per day : 5,544/300 = 18.48 M³</p> <p>Output per man shift (O.M.S) : 3M³</p> <p>Assuming the O.M.S as 3M³, the man power requirement will be 18.48 M³/3 M³ = 6.16 nos. or says 7 nos.</p>
16. Use of Mineral (Specification and monthly quantity to be dispatched be furnished) (a) For domestic use: (b) For export	<p>The mined out morrum of Nuarugudi Morrum Quarry will be used for domestic purpose i.e. construction of roads and other development works. Around 555 M³ of morrum on monthly basis (2 months will be kept ideal because of rainy season) will be sold in domestic market.</p> <p>No material will be exported at present</p>
17. Mine Closure Plan	
(a) Describe the process/activities to be undertaken for reclamation and rehabilitation in respect of the following :	No reclamation will be carried out after the exhaust of morrum. As the source will be used for water reservoir to supply the water for irrigation purpose of the land lord. However, the safety zone plantation will be done from 1 st year onwards.
i. Mined out land	The mined out land will be used for a water reservoir.
ii. Waste/reject dump	The over burden generation is nil.
iii. Top-soil stack and its utilization	Nil
(b) Financial assurance (To be furnished as a bank guarantee in respect of the area to be put to use at the rate of Rs15,000 per hectare)	The financial assurance will be submitted as decided by the competent authority. An undertaking by the auction holder will be submitted for this purpose.



APPROVED

22/04/17

18. Certificate :

I/We, the holder of Nuarugudi Morrum Quarry (type of concession) for Morrum (minerals) over 0.845 hec., in Nuarugudi (village/forest) under Padhiaripalli Panchayat, Hatadihi Tahasil of Keonjhar District hereby solemnly affirm that the plans and programmes in this mining plan will be scrupulously implemented by me/us and I/we will be strictly held responsible for any deviation thereof, I/We also hereby certify that the provisions of Mines and Minerals (Development & Regulation) Act, 1957, and the Mines Act, 1952 and Rules and Regulations made under these Acts, along with the provisions of Odisha Minor Mineral Concession Rules, 2016 will be strictly adhered to while implementing this mining plan and wherever specific permissions will be required, I/We will approach the concerned authorities of Directorate General of Mines Safety and the State Government, as the case may be.



APPROVED

S. K. Dalal
22/09/17

(S. K. Dalal)

**Deputy Director Geology
O/o the Joint Director Geology
Keonjhar**

FORTUNE GROUP
[Signature]
Managing Partner
(Signature of the Concessionaire)

CERTIFICATE & UNDERTAKING



This is to certify that all the statutory rules, regulations, orders made by the State Government, Statutory organizations, court etc. have been taken into consideration in this Progressive Mine Closure Plan prepared by Sri Pabitra Kumar Swain, Regd. No-RQP/OD/041/2016, Keonjhar, Odisha under Rule 28 (4) of OMMC Rules, 2016 in respect of **Nuarugudi Morrum Quarry over an area of 2.09 Acres or 0.845 hectares** in village Nuarugudi of Hatadihi Tahasil of Keonjhar District of Odisha belonging to Tapas kumar Pathy, Managing Partner, Fortune Group, Charampa, Bhadrak District, Odisha will be implemented in a time bound manner.

FORTUNE GROUP
Tapas Kumar Pathy
Managing Partner

Place: Charampa

Date:

Signature of the Lessee in full
Tapas Kumar Pathy,
Managing Partner, Fortune Group,
At/Po-Charampa, Ps-Charampa,
Dist – Bhadrak, Odisha

UNDERTAKING



I do here by undertake to submit financial assurance for a sairat source of 2.09 Acres or 0.845 hectares for five years for the plan period in shape of bank guarantee as and when decided by the competent authority.

FORTUNE GROUP

Tapas Kumar Pathy
Managing Partner

**Signature of the Lessee in full
Tapas Kumar Pathy,
Managing Partner, Fortune Group,
At/Po-Charampa, Ps-Charampa,
Dist – Bhadrak, Odisha**

Place: Charampa

Date:

OFFICE OF THE TAHASILDAR, HATADIHI.

No 2722 /Date 18-07-17 DWNEXURA-1

To

Sri Pabitra Kumar Swain, RQP

Reg. No.RQP/OD/041/2016

Swain Bhawan Infront of ICICI Bank, Mining Road, Keonjhar.

Sub:- Preparation of Mining Plan.

Sir,

In inviting a reference to the subject cited above, I am to submit herewith the land plan and land schedule of the Govt. land as scheduled below of village Nuarugudi for preparation of Mining Plan in favour of Sri Tapas Kumar Pathy, Managing Partner Fortune Group, Charampa-Bhadrak for issue of 5000 cum. of morrum for the purpose of construction of road from Bhdrak to Pirhat (0/000 to KM 27/500) of SH-09 under Odisha State Roads Project.

This is for your information and taking necessary action at your end.

Land Schedule

Mouza	Khata No	Plot No.	Area	Kissan
Nuarugudi	108	1086	Ac.0.45	Patit
		1087	Ac.0.17	-do-
		1091/1112	Ac.1.12	-do-
		1085/1252	Ac.0.35	-do-
Total:-		4 plots	Ac.2.09	

Encl: As above.

Yours faithfully

Wbm
18.7.17
Tahasildar, Hatadihi.

Memo No _____ /Date _____ /

Copy submitted to the Mining Officer, Keonjhar for kind information and necessary action with reference to this office L.No.811/dt.19.01.17

S/I
Tahasildar, Hatadihi.

ANNEXURE-I(A)

OFFICE OF THE TAHASILDAR, HATADIHI.

No _____/Date _____/



To

The Deputy Director Geology, Keonjhar

Sub:-

Submission of required information for preparation of mining plan in respect of Nuarugudi Morrum Quarry over 0.845 in village Nuarugudi under Hatadihi Tahasil.

Ref:-

Your Memo No.1725/CZ dt.12.09.17 and this office memo

Sir,

In inviting a reference to the memo on the subject cited above, I am to intimate you that the concession period in favour of Nuarugudi Morrum Quarry is suggested to be valid for the year from 2017-18 to 2022-23 i.e. five years.

This is for your kind information and necessary action.

Yours faithfully

Tahasildar, Hatadihi.

Memo No 3252/Date 15-09-17

Copy forwarded to Sri Pabitra Kumar Swain, RQP, Regd. No. RQP/OD/041/2016, Swain Bhawan Infront of ICICI Bank, Mining Road, Keonjhar.

Tahasildar, Hatadihi.

ANNEXURE-II



GOVERNMENT OF ODISHA
DEPARTMENT OF STEEL AND MINES
DIRECTORATE OF MINES



CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON
(Under rule 20(2) of Odisha Minor Mineral Concession Rules, 2004)

Sri Pabitra Kumar Swain, S/o Batakrushna Swain, R/o- Nuagaon,
Via- Kujang P.O: Nuagaon, Jagatsinghpur, Dist.-Jagatsinghpur,
whose photograph and signature are affixed herein, having given
satisfactory evidence of his qualification and experience, is hereby
recognised under rule 20(2) of Odisha Minor Mineral Concession
Rules, 2004 as a **qualified person** to prepare Mining Plans for
Minor Minerals within the State of Odisha, India.



Pabitra Kumar Swain

His/ Her Registration No. is

RQP/OD/041 /2016

This Recognition is valid for a period of 10 years ending on dt.03.04.2026. This certificate will be liable to be withdrawn/ cancelled in the event of furnishing wrong information/ documents in the Mining Plans to be submitted by him.

Place: Bhubaneswar

Date: 04.04.2016


DIRECTOR OF MINES, ODISHA

BHUBANESWAR

Address :

VIII./Ward : Gandapada

G.P./Town : Guamala

P.S. : Tihidi

Dist. : Bhadrak

ଠିକଣା :

ଗ୍ରାମ/ଊର୍ତ୍ତ : ଗଣ୍ଡପଡ଼ା

ଗ୍ରାମ/ସହର : ଗୁଆମାଳା

ଆଳା : ଡିହିଡି

ଜିଲ୍ଲା : ଭଦ୍ରକ

This card can be used as an Identity Card under different Government Programmes.

ଏହି ପରିଚୟ ପତ୍ର ବିଭିନ୍ନ ସରକାରୀ ଯୋଜନାରେ ପରିଚୟ ପତ୍ର ରୂପେ ବ୍ୟବହାର କରାଯାଇପାରିବ ।

Bhadrak

ଭଦ୍ରକ

31/01/96

୩୧/୦୧/୯୬

Facsimile Signature of
Electoral Registration Officer
for Chandabali A.C.

ଚାନ୍ଦାବାଲି

ବିଧାନସଭା ନିର୍ବାଚନ ମଣ୍ଡଳୀର ନିର୍ବାଚନ-
ଲେଉଟିପୁରଣ ପଞ୍ଚାୟତ ସମ୍ପ୍ରଦାୟ

ANNEXURE-IV



ELECTION COMMISSION OF INDIA

ଭାରତୀୟ ନିର୍ବାଚନ କମିଶନ

IDENTITY CARD OR/03/021/059020

ପରିଚୟ ପତ୍ର



Elector's Name : Tapas Kumar Pathi

ଭୋଟରଙ୍କ ନାମ : ଡାପସ କୁମାର ପାଠୀ

Father's/Mother's/
Husband's Name : F - Indramani

ପିତା/ମାତା/ସ୍ୱାମୀଙ୍କ ନାମ : ଫି - ଇନ୍ଦ୍ରମଣି

Sex / ଲିଙ୍ଗ : Male ପୁରୁଷ

Age as on 1.1.1996: 19

୧.୧.୧୯୯୬ ରେ ବୟସ : ୧୯

Tapas Pathi

ANNEXURE



CERTIFICATE

This is to intimate that the area proposed to be granted for quarry lease in favour of Papas Kumar Pathy, managing partner for (farmzone group) mining of road metal/sand over an area of 2.09 Ac or 0.845 Ha in village Nuaragudi Tahasil Hatadihi, district Keonjhar, Odisha has been demarcated on field by the Revenue Inspector, Soso of Hatadihi Tahasil with the help of existing revenue village sheets of the adjoining area.

Date:- 5/9/17

Place:- Nuaragudi

M. Lal
Signature 05.09.17

**REVENUE INSPECTOR
SOSO CIRCLE**



ନାମ: ନୁଆରୁଗୁଡ଼ି
 ଠିକଣା: ହାତାଦିହି
 ଗ୍ରାମପଞ୍ଚାୟତ - ହାତାଦିହି
 ଜିଲ୍ଲା - କେନ୍ଦ୍ରୀୟ
 ପ୍ଲଟ ନଂ - ୧୨ = ୧୩
 ବ୍ଲକ୍ - ୧୨୪-୭୪

ନାମ: ନୁଆରୁଗୁଡ଼ି
 ଠିକଣା: ହାତାଦିହି
 ଗ୍ରାମପଞ୍ଚାୟତ - ହାତାଦିହି
 ଜିଲ୍ଲା - କେନ୍ଦ୍ରୀୟ
 ପ୍ଲଟ ନଂ - ୧୨ = ୧୩
 ବ୍ଲକ୍ - ୧୨୪-୭୪



ନାମ: ନୁଆରୁଗୁଡ଼ି
 ଠିକଣା: ହାତାଦିହି

କ୍ର.ନଂ	କମ୍ପାନୀ	ଠିକଣା
୧୦୮୩	୩୧୧	୩୦.୪୫
୧୦୮୩	୩୧୧	୩୦.୧୨
୧୦୧୧	୩୧୧	୩୧.୧୨
୧୦୧୧	୩୧୧	୩୧.୧୨
୧୦୧୧	୩୧୧	୩୧.୧୨
୧୦୧୧	୩୧୧	୩୧.୧୨

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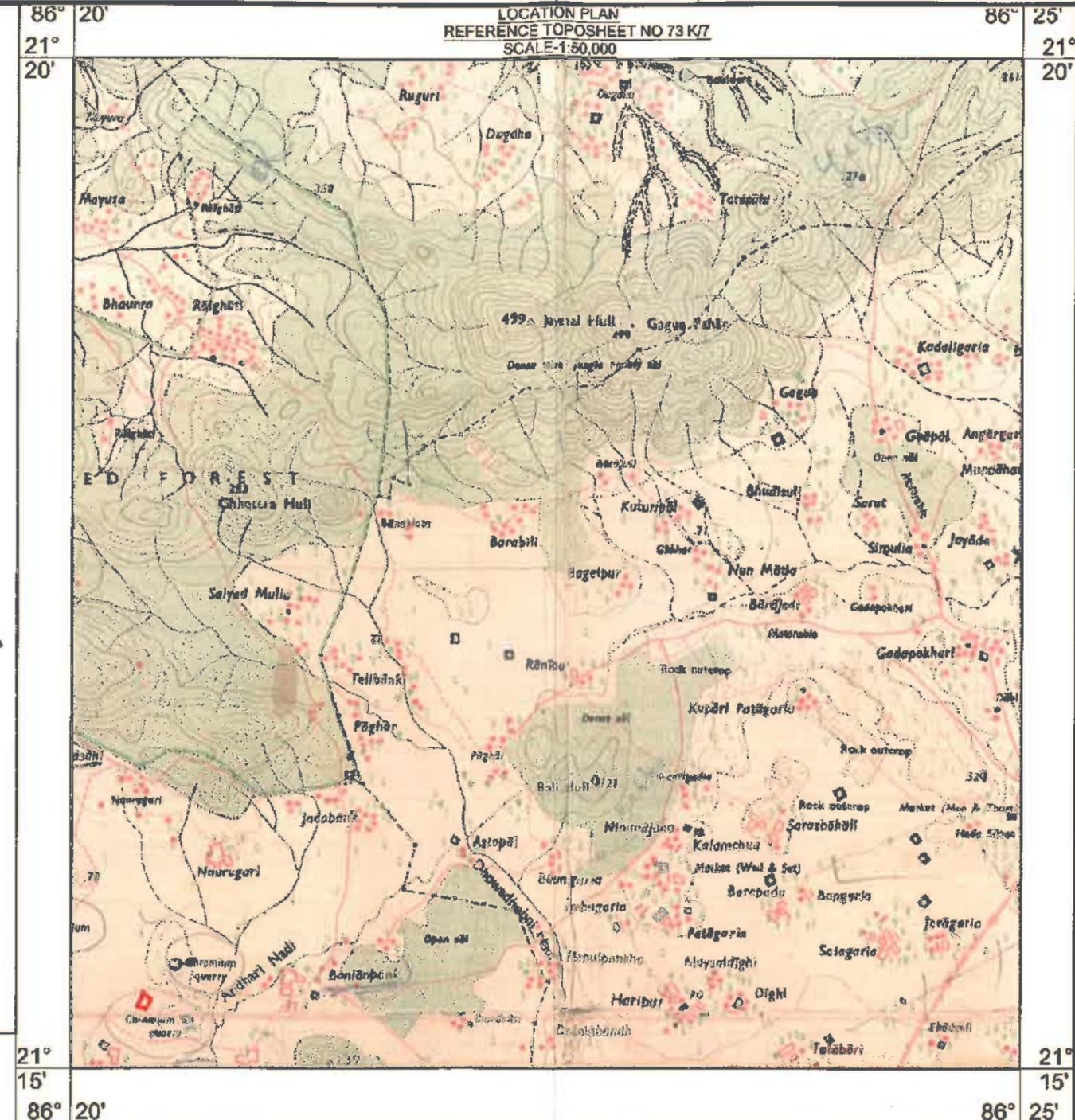
LEASE AREA

PLOT WITH NO.

CO-ORDINATE OF BOUNDARY PILLARS

PILLAR NO	LATITUDE	LONGITUDE
1	21°15'18.6"	86°20'21.1"
2	21°15'21.9"	86°20'22.8"
3	21°15'20.4"	86°20'25.7"
4	21°15'17.7"	86°20'23.6"

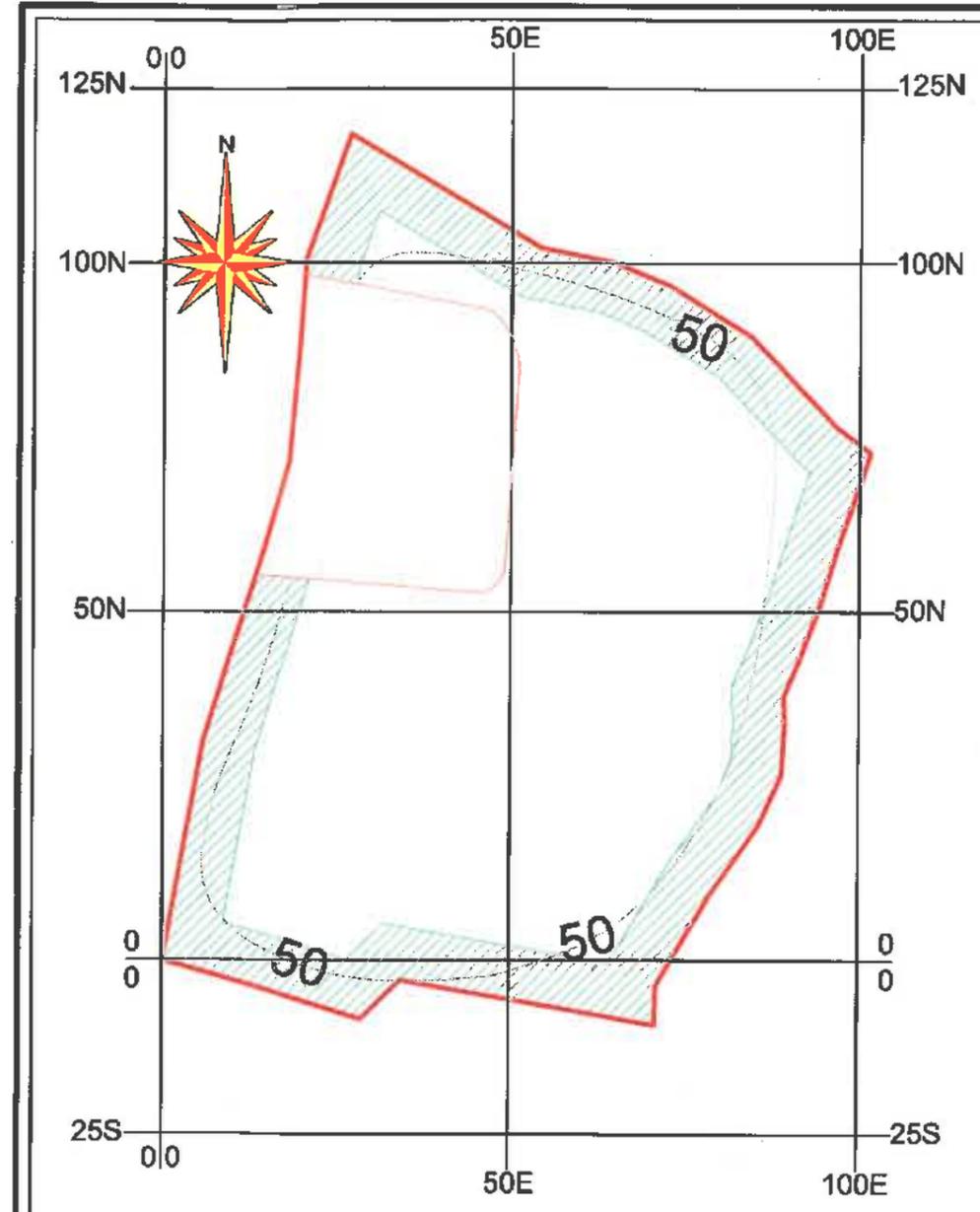
LOCATION PLAN
 REFERENCE TOPOSHEET NO 73 K7
 SCALE-1:50,000



LEGEND

Road metalled according to importance, distance stone		Towns or Villages (population denoted by dots)	
unmetalled do do bridge		Huts permanent temporary Tower Antiquities	
Cart track Pack track and pass Foot path and bridge		Temple Chhatra Church Mosque Jogh Tomb Graves	
Railways with pass without Causeway ford or ferry		Lighthouse Lightship Buoy light and lighted Anchorages	
Streams with track in bed unstreamed Canal		Mine Mine on aerial Grass Scrub	
Dams masonry or rock-filled earthwork Weir		Palms palms other Plantain Conifer Bamboo Other trees	
River banks shelving steep 3 to 6 metres over 6 metres		Boundary international	
dry with water channel with island & rocks Tidal river		state demarcated undemarcated	
Submerged rocks Shoal Beaches Reeds		district subdivided tahsil or block forest	
Wells unad: unlined tube well Spring Tanks perennial dry		Boundary pillars surveyed uncollected village triangulation	
Embankments road or rail tank Broken ground		Height triangulated: station point approximate	
Railways broad gauge double single with station under construction		bench mark Geostatic tertiary canal	
other gauges do do with distance stone do		Post office Telegraph office Combined office Police station	
Mineral line or tramway Telegraph line Cutting with tunnel		Bungalows dak or travellers inspection Post house	
Contours with sub-features Rocky slopes Cliffs		Circuit house Camping ground Forest reserved protected	
Sand features (flat 12 sand hills and dunes auripipal) Shifting dunes		Space names administrative locality or tribal	

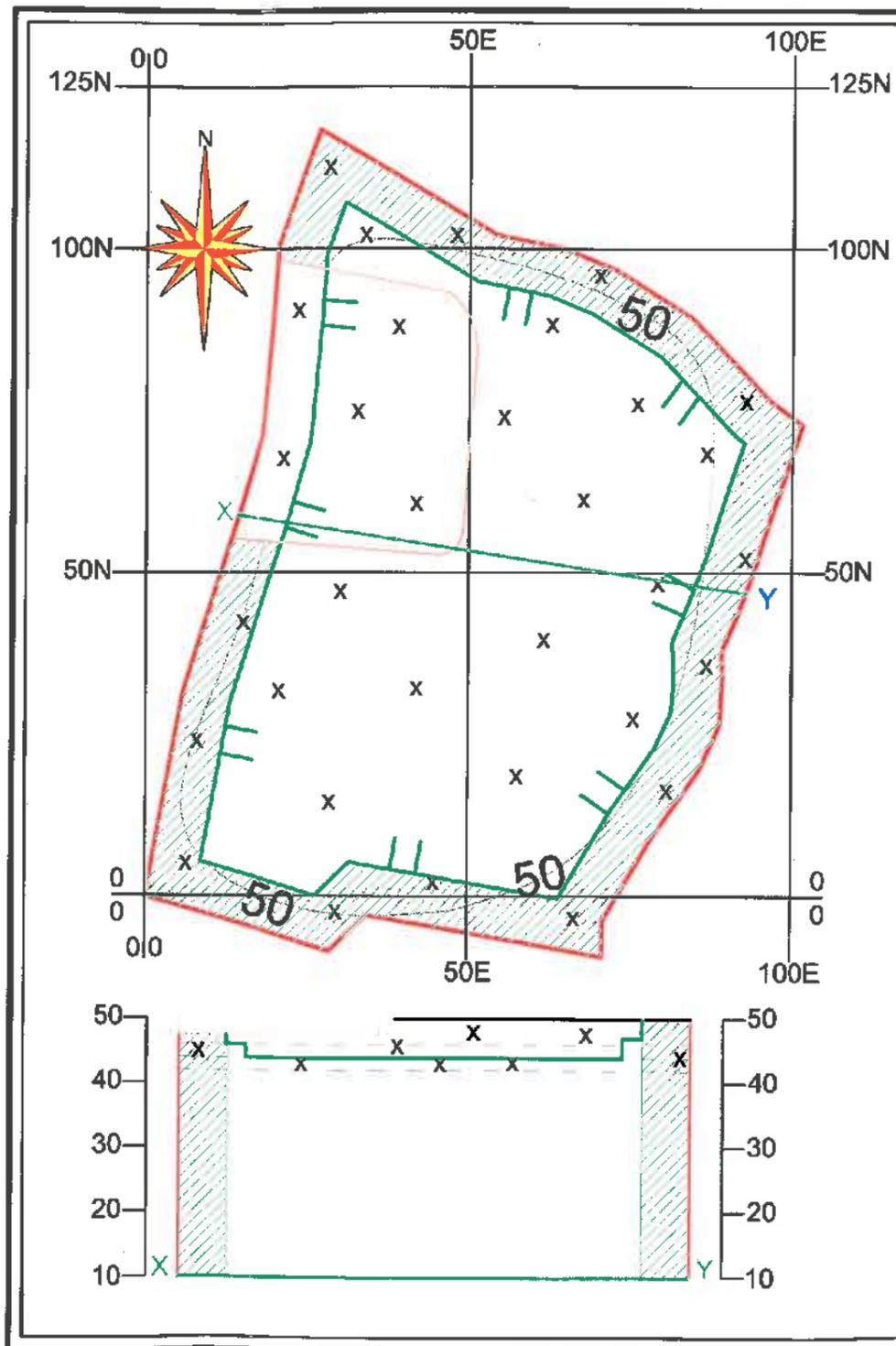
PLATE-II
LEASE WITH LOCATION PLAN
 SCALE-16"=1 MILE & 1:50,000
NUARUGUDI MORRUM QUARRY
 OVER AN AREA 2.09 ACRES OR 0.8458 HECTARES
 IN VILLAGE NUARUGUDI OF HATADIHI TAHASIL
 IN DISTRICT OF KEONJHAR ODISHA.
 SRI TAPAS KUMAR PATHY, MANAGING PARTNER FORTUNE GROUP
 TEMPORARY PERMIT
 Certified that the Plan is up to date & Correct to the best of my Knowledge
APPROVED
 (S. K. Dalal)
 Deputy Director Geology
 Keonjhar
 P.K SWAIN
 RQP/OD/041/2016



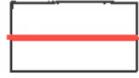
- INDEX**
- LEASE BOUNDARY
 - 50 CONTOUR
 - EXISTING QUARRY
 - SAFETY ZONE

PLATE-III

SURFACE PLAN SCALE-1:1000	
NUARUGUDI MORRUM QUARRY OVER AN AREA 2.09 ACRES OR 0.8458 HECTARES IN VILLAGE NUARUGUDI OF HATADIHI TAHASIL IN DISTRICT OF KEONJHAR ODISHA.	
SRI TAPAS KUMAR PATHY, MANAGING PARTNER FORTUNE GROUP TEMPORARY PERMIT	
Certified that the Plan is up to date & Correct to the best of my Knowledge	
 P.K SWAIN RQP/OD/041/2016	APPROVED (S. K. Datta) Deputy Director Geology O/o the Joint Director Geology Keonjhar



INDEX

-  LEASE BOUNDARY
-  CONTOUR
-  EXISTING QUARRY
-  SAFETY ZONE

GEOLOGICAL FEATURES

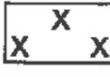
-  ROAD METAL
-  PROVED
-  PROBABLE
-  POSSIBLE
-  ULTIMATE PIT LIMIT



PLATE-IV

GEOLOGICAL PLAN WITH SECTION

SCALE-1:1000

NUARUGUDI MORRUM QUARRY
 OVER AN AREA 2.09 ACRES OR 0.8458 HECTARES
 IN VILLAGE NUARUGUDI OF HATADIHI TAHASIL
 IN DISTRICT OF KEONJHAR ODISHA.

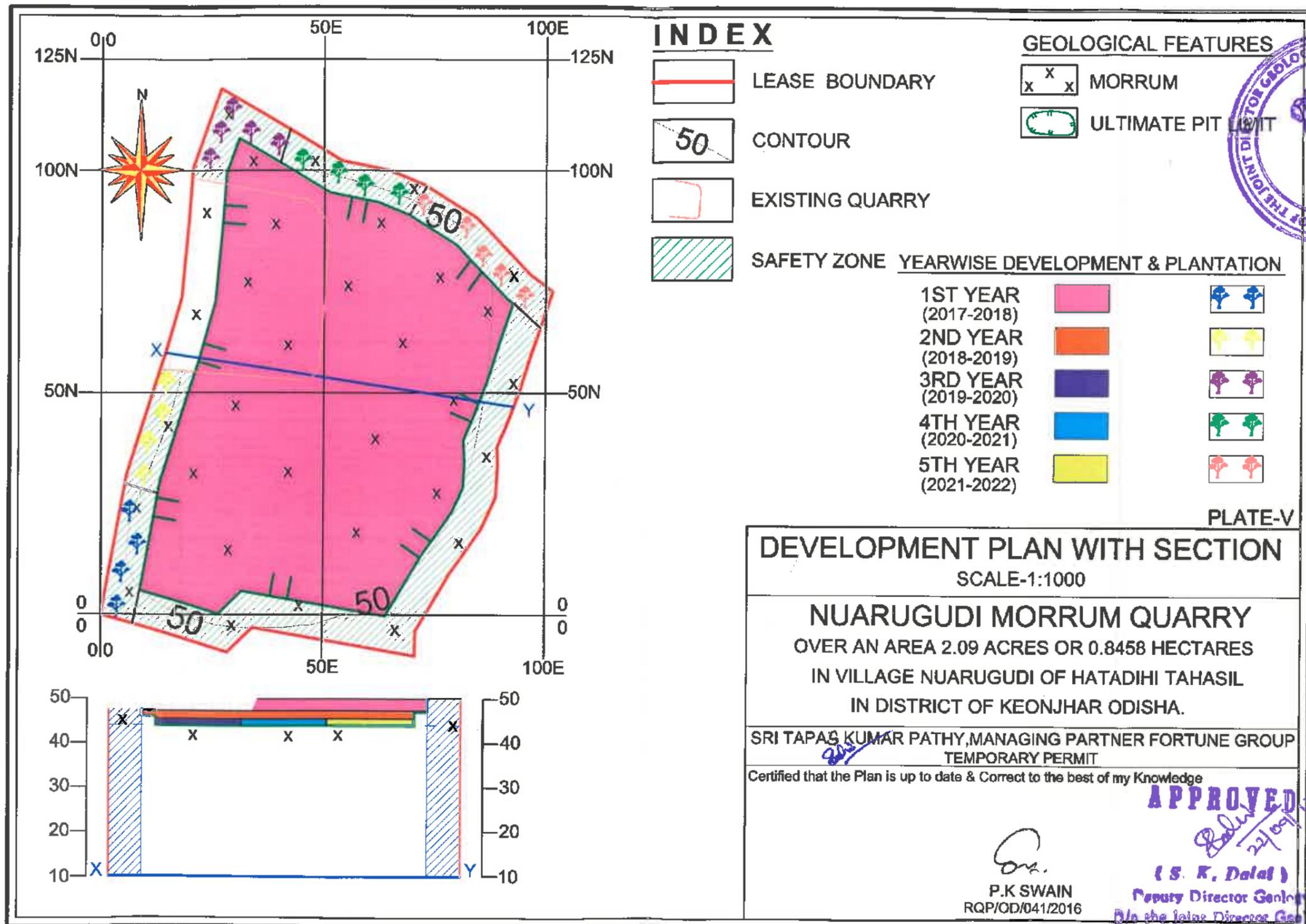
SRI TAPAS KUMAR PATHY, MANAGING PARTNER FORTUNE GROUP
 TEMPORARY PERMIT

Certified that the Plan is up to date & Correct to the best of my Knowledge


 P.K SWAIN
 RQP/OD/041/2018

APPROVED

 I.S.R. Dalal
 Deputy Director Geology
 Office of the Joint Director Geology
 Keonjhar



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- LEASE BOUNDARY
- CONTOUR
- EXISTING QUARRY
- SAFETY ZONE

GEOLOGICAL FEATURES

- MORRUM
- ULTIMATE PIT LIMIT

YEARWISE DEVELOPMENT & PLANTATION

- 1ST YEAR (2017-2018)
- 2ND YEAR (2018-2019)
- 3RD YEAR (2019-2020)
- 4TH YEAR (2020-2021)
- 5TH YEAR (2021-2022)

PLATE-V

DEVELOPMENT PLAN WITH SECTION

SCALE-1:1000

NUARUGUDI MORRUM QUARRY
 OVER AN AREA 2.09 ACRES OR 0.8458 HECTARES
 IN VILLAGE NUARUGUDI OF HATADIHI TAHASIL
 IN DISTRICT OF KEONJHAR ODISHA.

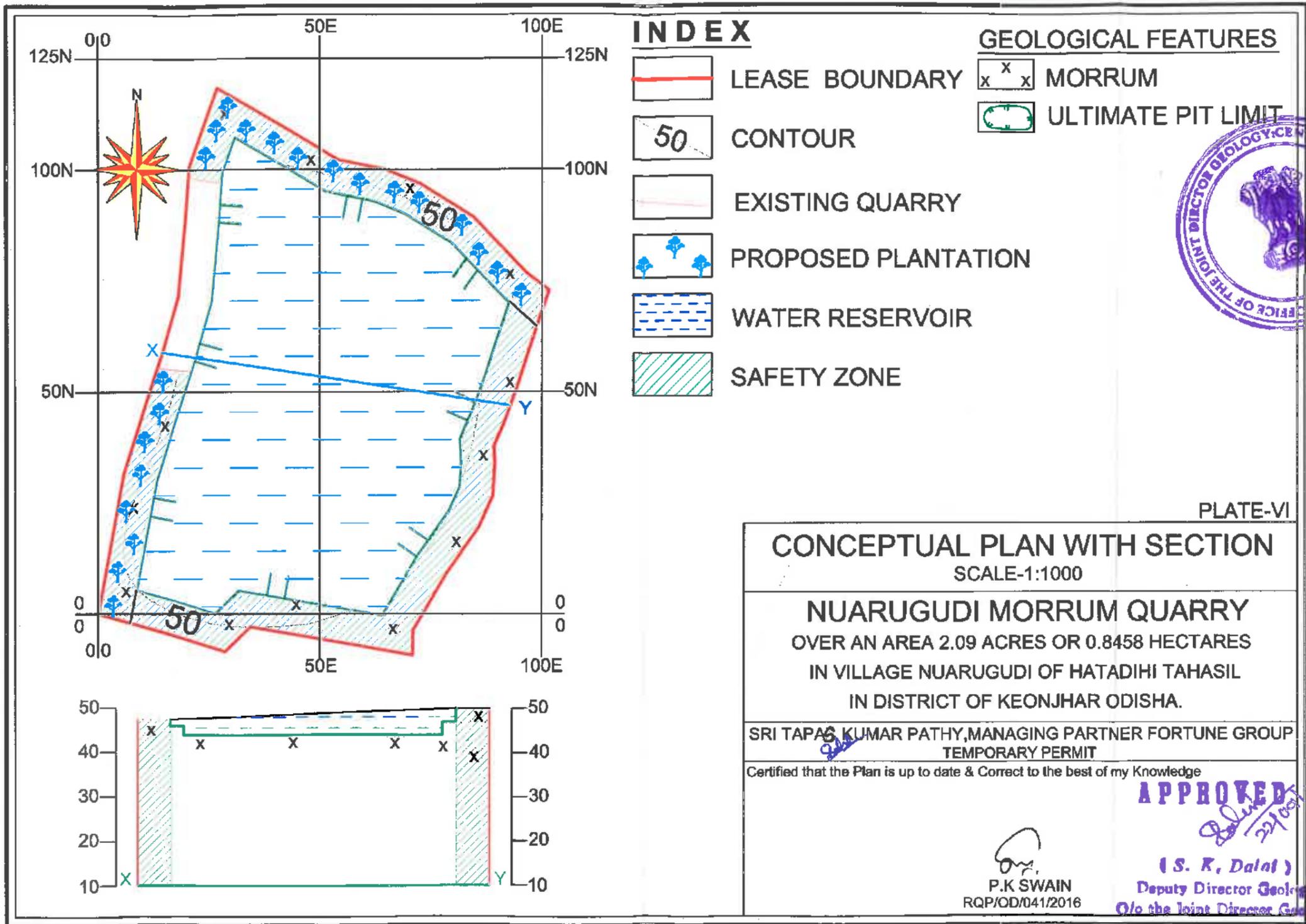
SRI TAPAS KUMAR PATHY, MANAGING PARTNER FORTUNE GROUP
 TEMPORARY PERMIT

Certified that the Plan is up to date & Correct to the best of my Knowledge

(Signature)
 P.K SWAIN
 RQP/OD/041/2016

APPROVED
(Signature)
 (S. K. Dalal)
 Deputy Director Geology
 In the Joint Director Geology
 Keonjhar





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- LEASE BOUNDARY
- CONTOUR
- EXISTING QUARRY
- PROPOSED PLANTATION
- WATER RESERVOIR
- SAFETY ZONE

GEOLOGICAL FEATURES

- MORRUM
- ULTIMATE PIT LIMIT



PLATE-VI

CONCEPTUAL PLAN WITH SECTION
SCALE-1:1000

NUARUGUDI MORRUM QUARRY
OVER AN AREA 2.09 ACRES OR 0.8458 HECTARES
IN VILLAGE NUARUGUDI OF HATADIHI TAHASIL
IN DISTRICT OF KEONJHAR ODISHA.

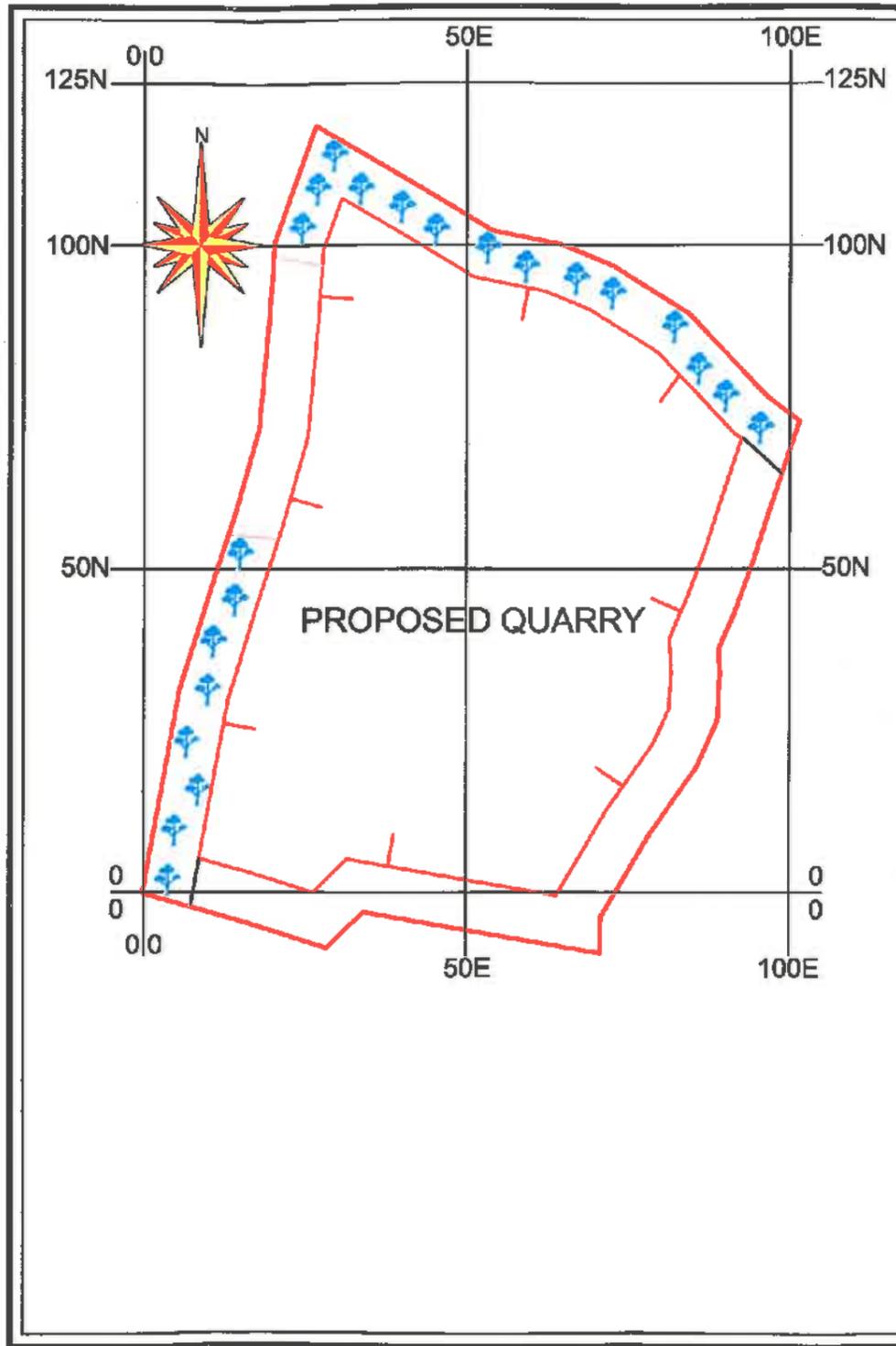
SRI TAPAS KUMAR PATHY, MANAGING PARTNER FORTUNE GROUP
TEMPORARY PERMIT

Certified that the Plan is up to date & Correct to the best of my Knowledge

P.K SWAIN
RQP/OD/041/2016

APPROVED

(S. K. Dalal)
Deputy Director Geology
O/o the Joint Director Geology
Keonjhar



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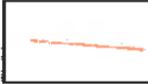
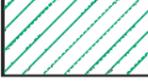
-  LEASE BOUNDARY
-  EXISTING QUARRY
-  PROPOSED PLANTATION
-  PROPOSED QUARRY
-  SAFETY ZONE



PLATE-VII

PROGRESSIVE MINE CLOSURE PLAN
SCALE-1:1000

NUARUGUDI MORRUM QUARRY
OVER AN AREA 2.09 ACRES OR 0.8458 HECTARES
IN VILLAGE NUARUGUDI OF HATADIHI TAHASIL
IN DISTRICT OF KEONJHAR ODISHA.

SRI TAPAS KUMAR PATHY, MANAGING PARTNER FORTUNE GROUP
TEMPORARY PERMIT

Certified that the Plan is up to date & Correct to the best of my Knowledge


P.K SWAIN
RQP/OD/041/2016

APPROVED

(S. K. Dalal)
Deputy Director Geology
C/o the Joint Director Geology