Application Form (Draft EIA Report)

For

Thiru.S. Marimuthu

Proposed Rough stone and Gravel Quarry – 4.24.0 Ha

at

S.F.No. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamilnadu State

Sector No. 1(a) (Sector No. 1 as per NABET)

Category of the Project: B1 Cluster Mining

Baseline Period: June, July & August 2022

Environmental Consultant & Laboratory details: Ecotech Labs Pvt Ltd,



NABL

No 48, 2nd Main road, South extension Ram nagar, Pallikaranai, Chennai -600100.

Proponent details:

Thiru.S.Marimuthu, S/O. Sundaram, D.No. 89, 1/177, Melatheru Kadaneri village, Wathirayiruppu taluk, Virudhunagar District.

Thiru.S.Marimuthu, S/O. Sundaram, D.No. 1/177, Melatheru, Kadaneri Village, Wathirayiruppu taluk, Virudhunagar District

UNDERTAKING

I, Thiru.S.Marimuthu, undertaking that the Draft Environmental Impact Assessment (EIA) Report for Rough Stone and Gravel Quarry over an extent of 4.24.0 Ha at S.F.No. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamilnadu State under project category B1 and Schedule S.No.1(a)

TOR issued by the State Expert Appraisal Committee, TN vide Letter No. SEIAA-TN/F. No. 9319/ SEAC/ToR-1232/2022 Dated: 30.08.2022.

I, hereby assure that all the information and data provided in the EIA report is accurate, true and correct and owns responsibility for the same.

S . Durito 32

Place: Virudhunagar

Yours faithfully Thiru. S. Marimuthu

Date:

Piot No. 48A, 2nd Main Road, Ram Nagar, South Extension, Pallikkaranai, Chennai - 500 100 GST NO. 33AADCE6103A22H PAN NO. AADCE6103A



Eco Tech Labs Pvt Ltd

Cell No. 98400 87542 Email : info@ecotechtabs.in Website www.ecotechtabs.in CIN: U74900TN2014PTC094895

UNDERTAKING

I, Dr. A. Dhamodharan, Managing Director confirms that this Draft EIA Report of Rough Stone and Gravel Quarry over an extent of 4.24.0 Ha at S.F.No. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamilnadu State has been prepared at M/s. Ecotech Labs Pvt. Ltd., Chennai.

I also confirm that I shall be fully accountable for any misleading information mentioned in this Report.

A-DJamin

Signature:

Name: Dr. A. Dhamodharan

Designation: Managing Director

Name of the EIA Consultant Organization: M/s. Ecotech Labs Pvt Ltd., Chennai.

NABET Certificate No: NABET/EIA/2124/SA 0147

Date:

Place: Chennai

Declaration by Experts contributing to the EIA of Existing Rough Stone Quarry- 2.50.0 Ha by Thiru.S.Marimuthu at S.F.No. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamilnadu State

I, hereby, certify that I was a part of the EIA team in the following capacity that developed the above EIA.

EIA Coordinator: Dr. A. Dhamodharan

Kunll M

Dr. A. DHAMODHARAN (NABET APPROVED EIA COORDINATOR) NABET/EIA/2124/SA 0147 Environmental Consultant Eco Tech Labs Pvt. Ltd Piot No.48A, 2nd Main Road, Ram Nagar South Estin. Patilikaranai, Chennal - 600 100.

Signature:

Period of involvement: 01.03.2022 to Till now

Contact information: M/s. Ecotech Labs Pvt Ltd.,

No. 48, 2nd Main road, Ram Nagar South Extension,

Pallikaranai

S. No.	Functi onal areas	Name of the experts	Involvement (period and task)	Signature and date
1	AP	Mrs. K. Vijayalakshmi	 Selection of Baseline Monitoring stations based on the wind direction Interpretation of Baseline data by comparing it with standards prescribed by CPCB against the type of area Identification of sources of air pollution and suggesting mitigation measures to minimize impact Period: March 2022 – Till now 	r.H.f.

2	WP	Dr. A. Dhamodhara n	 Selection of baseline Monitoring Locations for Ground water analysis and also identifying nearest surface water to be studied. Interpretation of baseline data collected Identification of impacts based on the baseline study conducted and also to the ground water and nearby surface water due to the proposed project Preparation of suitable and appropriate mitigation plan. <i>Period: March 2022 – Till now</i> 	A-Dumin
3	SHW	Dr. A. Dhamodhara n	 Identification of nature of solid waste generated Categorization of the generated waste and estimating the quantity of waste to be generated based on the per capita basis. Identification of impacts of SHW on Environment Suggesting suitable mitigation measures by recommending appropriate disposal method for each category of waste generated Top soil and refuse management <i>Period: March 2022 – Till now</i> 	A-Drown
4	SE	Mr. S. Pandian	 Primary data collection through the census questionnaire Obtaining Secondary data from authenticated sources and incorporating the same in EIA report. Impact assessment & proposing suitable mitigation plan CSR budget allocation by discussing with the local body and allotting the same for need based activity. Period: March 2022 – Till now *Involves Public Hearing 	
5	EB	Dr. A. Dhamodhara n	 Primary data collection through field survey and sheet observation for ecology and biodiversity Secondary Collection through various authenticated sources Prediction of anticipated impacts and suggesting appropriate mitigation measures. 	A-D) Junin

			Period: March 2022 – Till now	
6	HG	Dr. T. P. Natesan	 Study of existing surface drainage arrangements in the core and buffer zone, impact due to mining on these drainage courses and suggestion of mitigative measures Determination of groundwater use pattern, development of rainwater harvesting program. Storm water management through garland drainage system. Period: March 2022 – Till now 	
7	GEO	Dr. T. P. Natesan	1. Field survey for assessing regional and local geology, aquifer distribution, Determination of groundwater use pattern, development of rainwater harvesting program. <i>Period: March 2022 – Till now</i>	
8	SC	Dr. A. Dhamodhara n	 Interpretation of baseline report Identification of possible impacts on soil, prediction of soil conservation and suggesting suitable mitigation measures. Period: March 2022 – Till now 	A-Marin
9	AQ	Mrs. K. Vijayalakshmi	 Collection of Meteorological data for the baseline study period Plotting wind rose plot and thereby selecting the monitoring locations based on the wind pattern Estimation of sources of air emissions and air quality modeling is done Interpretation of the results obtained Identification of the impacts and suggesting suitable mitigation measures. Period: March 2022 – Till now 	x A.F.

10	NV	Mrs. K. Vijayalakshmi	 Selection of monitoring locations Interpretation of baseline data Prediction of impacts due to noise pollution and suggestion of appropriate mitigation measures Period: May 2022 – Till now 	KIOIL
11	LU	Dr. T. P. Natesan	 Collection of Remote sensing satellite data to study the land use pattern. Primary field survey and limited field verification for land categorization in the study area Preparation of Land use map using Satellite data for 10km radius around the project site. <i>Period: March 2022 – Till now</i> 	(m) ~ 1+
12	RH	Mrs. K. Vijayalakshmi	 Identification of the risk Interpreting consequence contours Suggesting risk mitigation measures <i>Period: March 2022 – Till now</i> 	KIEL

Declaration by the Head of the accredited consultant organization/ authorized person

I, Dr. A. Dhamodharan, hereby, confirm that the above-mentioned experts prepared the EIA report of mining project at Survey Numbers. 603/1(Part-A) Panchakshipuram Village, Hosur Taluk, Krishnagiri District. I also confirm that the consultant organization shall be fully accountable for any misleading information mentioned in this statement.

A-D) Jamilin

Signature:

Name: Dr. A. Dhamodharan
Designation: Managing Director
Name of the EIA consultant organization: M/s. Eco Tech Labs Private Limited
NABET Certificate No. & Issue Date: NABET/EIA/2124/SA 0147

Project	Rough stone and Gravel Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA
Project Proponent	Thiru.S.Marimuthu	Report
Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	

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ABBREVIATION

LU –Land use

AP – Air Pollution monitoring, prevention and control

AQ- Meteorology, Air quality modeling and prediction

WP - Water pollution monitoring, prevention and control

EB- Ecology and Biodiversity

NV- Noise & Vibration

SE- Socio-economics

HG- Hydrology, ground water and water conservation

GEO –Geology

RH - Risk assessment and hazards management

SHW –Solid and Hazardous waste management

SC- Soil conservation

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EXECUTIVE SUMMARY

1. Project Background:

The Proposed project total extent area is 4.24.0 Ha, It is a Patta land in 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District. The category of project is B1, It is a Rough stone and Gravel quarry in Kottaiyur village. The area is situated on plain terrain with Rough Stone which does not sustain any type of vegetation.

The quarry operation is proposed to carry out with open cast mechanized mining with 5.0 meter bench for Top soil & Gravel followed by 5.0 meter vertical bench with a bench width not less than the bench height. The quarry operation involves shallow jack hammer drilling, slurry blasting, Loading and transportation of Rough stone and Gravel to the needy nearby crusher units / road formation works.

The quarry operation is proposed up to depth of 41m from the ground level. Geological Resources is estimated at 14,61,660 Cum of Rough stone and 1,39,422 of Gravel. Mineable Reserves is estimated as 4,89,305 Cum of Rough stone & 96,090 Cum of Gravel and after leaving necessary safety distance from the lease boundary as indicated in the precise area letter and relevant mining laws in force. Production Schedule is production of 489305 Cum of Rough Stone for the period of Five years. Mining Plan was approved by The Assistant Director, Geology & Mining, Virudhunagar vide letter Roc.No.KV1/519/2020 dated 27.05.2022. Precise area communication letter received from Assistant Director, Department of Geology and Mining; Virudhunagar vide letter Na.ka.No.KV1/519/2020-Kanimam dated 25.02.2021

The project area does not fall in Hill Area Conservation Authority region. There is no interstate boundary, CRZ zone, Western Ghats, notified Bird sanctuaries, wild life sanctuaries as per Wild life protection Act 1972, within the radius of 15Km.

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2. Nature & Size of the Project

The Existing Rough Stone Quarry over an extent of 4.24.0 Hectares land is located at Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District.

Mineral intends to quarry	: Rough stone and Gravel Quarry	
District	: Virudhunagar	
Taluk	: Virudhunagar	
Village	: Kottaiyur	
S. F. Nos.	: 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P),	
	11/2H(P), 11/2I(P), 11/2J2B and 15/2B1	
Extent	: 4.24.0 Hectares	
Extent	: 4.24.0 Hectares	

Table 1	l: Brief	Description	of the	Project
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S. No	Particulars	Details	
1	Latitude	Latitude : 09° 26' 11.60" to 09° 26' 19.15" N	
2	Longitude	Longitude : 77° 58' 45.20" to 77° 58' 56.07" E	
3	Site Elevation above MSL	86 m AMSL	
4	Topography	Plain Terrain	
5	Land use of the site	Patta Land	
6	Extent of lease area	4.24.0 Ha	
7	Nearest highway	NH- 44 (Srinagar - Kaniyakumari) – 6km, N	
8	Nearest railway station	Sattur Railway Station – 11 km, SW	
9	Nearest airport	Madurai Airport – 55km, N	
		Town - Sattur - 11 Km -S	
10	Nearest town / city	City - Virudhunagar – 14km, N	
		District - Virudhunagar – 14km, N	
11	Rivers / Canal	Arjuna River – 4.7 km, S	
	ixivero / Callai	Vaippar River-11 Km, S	

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12	Lake	 Mannarkottai Village Tank – 1.2km, NW Malaiarasan koil lake –14 km NE Periya Kanmai –14 km, NE Kullursandai Reservoir – 12km, N
13	Hills / valleys	Nil in 15 km radius
14	Archaeologically places	Nil in 15 km radius
15	National parks / Wildlife Sanctuaries	Nil in 15 Km radius
16	Reserved / Protected Forests	Vepillaipatti Open scrub – 3km, SSW Sandaiyur Open scrub – 2.85km, SSW
17	Seismicity	Proposed Lease area come under Seismic zone-II(low risk area)
18	Defense Installations	Nil in 15 Km radius

3. Need for the Project

- The mining activities as proposed are the backbone of all construction and infrastructure projects as the raw material for construction is available only from such mining. The Rough stone and Gravel extracted will be transported to be Stone crusher of district Pudukkottai.
- The raw Rough stone as well as the crushed material of stone is in high demand in real estate, construction projects as well as in building construction projects.
- Rough stone is quarried for producing crusher aggregates to the nearby building contractors, road contractors and nearby villagers.
- After quarrying the entire reserves mined out, the area will be used as water reservoir to have an artificial recharge to the nearby wells.
- No damage to the land is caused, no reclamation or back filling is required.



Figure 1: Location Map of the Project Site

Project	Rough stone and Gravel Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA
Project Proponent	Thiru.S.Marimuthu	Report
Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	



Figure 2: Google Image of the Project Site

4. Charnockite

Generally, the Charnockite is grey to greenish colored, coarse to medium grained, greasy nature with or without garnet. Because of the limited outcrops, the quarry sections are studied to infer the various interrelationships between the litho units. Charnockite is interbanded nature with crystalline carbonate rocks are observed in most of the quarry in Pandalgudi, Lakshmipuram, Gopalapuram, Sundakottai chinnakamanpatti, Weathering of the Charnockite on the surface gives a deceptive look of gneiss and in the quarry sections at depth the fresh charnockite is exposed, which are well exemplified in almost all the Charnockite quarry sections.

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5. Geological Resources

The Geological reserves have been calculated based on the cross section method. The available geological reserve is estimated as 14,61,660 m3 of Rough Stone and 1,39,422 m3 of Gravel respectively. Availability of Resources is given below.

SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	ROUGH STONE VOLUME M ³	TOP SOIL & GRAVEL VOLUME M ³
A-A' & B-B'	62	104	6.0	-	38,688
	62	104	35.0	2,25,680	-
$\Delta = \Delta' & C = C'$	168	110	3.0	-	55,440
A-A & C-C	168	110	38.0	7,02,240	-
$C_{-}C' & D_{-}D'$	80	80	3.0	-	19,200
	80	80	38.0	2,43,200	-
E E'& E E'	110	86	6.0	-	56,760
	110	86	35.0	3.31.000	-
TOTAL C	GEOLOGICAL RESERVES			15,02,220	1,70,088
Existing nits	134	55	3.0	-	(-)22,110
A–A' & C–C'	132	38	5.0	(-)27,060	-
	62	46	3.0	-	(-) 8,556
C-C & D-D	60	45	5.0	(-)13,500	-
LESS - ALREADY EXCAVATED			ED	(-)40,560	(-)30,666
BALANCE GEOLOGICAL RESERVES				14,61,660	1,39,422

Table 2. Geological resources

Table 3.Mineable Resources

SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	ROUGH STONE VOLUME	TOP SOIL & GRAVEL VOLUME
				(M ³)	(M ³)
A–A' & B– B'	53	86	6.0	-	27,348
	46	72	5.0	16,650	-
	41	62	5.0	12,710	-
	36	52	5.0	9,360	-
	31	42	5.0	6,510	-
	26	32	5.0	4,160	-
	21	22	5.0	2,310	-

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	16	12	5.0	960	-
		101	• •		10,100
	160	101	3.0	-	48,480
	153	94	5.0	71,910	-
	148	89	5.0	65,860	-
$\Lambda \Lambda' \& C C'$	143	84	5.0	60,060	-
A-A & C-C	138	79	5.0	54,510	-
	133	74	5.0	49,210	-
	128	69	5.0	44,160	-
	123	59	5.0	36,285	-
	72	62	3.0	-	13,392
	65	48	5.0	15,600	-
C C' & D D'	60	38	5.0	11,400	-
C-C & D-D	55	28	5.0	7,700	-
	50	18	5.0	4,500	-
	45	8	5.0	1,800	-
	92	68	6.0	-	37,536
	78	54	5.0	21,060	-
сс, с сс,	68	44	5.0	14,960	-
$E-E \alpha \Gamma-\Gamma$	58	34	5.0	9,860	-
	48	24	5.0	5,760	-
	38	14	5.0	2,660	-
TOTA	L MINEABL	E RESERV	'ES	5,29,865	1,26,756
LESS :	ALREADY	EXCAVAT	ED	(-)40,560	(-)30,666
BALAN	BALANCE MINEABLE RESERVES			4,89,305	96,090

Table 4. Year wise Production Plan

YEAR	SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	ROUGH STONE VOLUM E (M ³)	GRAVEL VOLUME (M ³)
	$\Lambda \Lambda' & BB'$	18	86	6.0	-	9,288
	A-A & D-D	10	72	5.0	3,600	-
I-Year	A-A' & C-C'	160	101	3.0	-	48,480
		153	94	5.0	71,900	-
		78	89	5.0	34,710	-
	C-C' & D-D'	72	62	3.0	-	13,392
		65	48	5.0	15,600	-
		60	38	5.0	11,400	-
SUB – TOTAL I-YEAR					1,37,220	71,160
LESS: ALREADY EXCAVATED PITS					(-)40,560	(-)30,666
I – YEAR PRODUCTION					96,660	40,494

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		35	86	6.0	-	18,060
		36	72	5.0	12,960	-
	A-A & B-B	41	62	5.0	12,710	-
11-Year		36	52	5.0	9,360	-
	A-A' & C-	70	89	5.0	31,150	-
	C'	79	84	5.0	33,180	-
	II – YEA	R PRODUC	TION		99,360	18,060
		31	42	5.0	6,510	-
	A-A & B-B	26	32	5.0	4,160	-
III Vear	A-A' & C-	64	84	5.0	26,880	-
111- I Cal	C'	138	79	5.0	54,510	-
	C-C' & D-	55	28	5.0	7 700	-
	D'	55	20	5.0	7,700	_
	III – YEA	AR PRODUC	CTION	1	99,760	-
	$A_{-}A' & B_{-}B'$	21	22	5.0	2,310	-
IV-YFAR		16	12	5.0	960	-
	A-A' & C-	133	74	5.0	49,210	-
	C'	128	69	5.0	44,160	-
	IV – YEA	AR PRODUC	CTION	1	96,640	-
	A-A' & C- C'	123	59	5.0	36,285	-
		50	18	5.0	4,500	
	C-C & D-D	45	8	5.0	1,800	-
VVEAD		92	68	6.0	-	37,536
V-ILAK		78	54	5.0	21,060	-
	FF '& FF '	68	44	5.0	14,960	-
	E-E & F-F	58	34	5.0	9,860	-
		48	24	5.0	5,760	-
		38	14	5.0	2,660	-
V – YEAR PRODUCTION					96,885	37,536
TOTAL PRODUCTION FOR FIVE YEARS					4,89,305	96,090

6. Mining

Opencast mining

Open cast Semi-Mechanized Mining with one 6.0 meter bench for Top soil & Gravel followed by 5.0 meter vertical bench with a bench width not less than the bench height.

The Quarry operation involves shallow jack hammer drilling, blasting, loading and transportation.

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Process Description

- > The reserves and resource are arrived based upon the Geological investigation
- > Removal of Gravel by Excavators and directly Loaded into Tippers.
- > Removal of Rough Stone by Excavators by Drilling and Blasting.
- > Shallow Drilling With Jackhammer of 30-32 mm Dia.
- > Minimum Blasting With Class 3 Explosives.
- > Loading of Rough Stone By Excavators Into Tippers.

7. Water Requirement

Total water requirement for the mining project is 4.5 KLD. Domestic water will be sourced from nearby MC Puram Village and other water will be source from nearby road tankers supply.

Purpose	Quantity	Source
Drinking Water	1.5KLD	Packaged Drinking water vendors available inMCPuram which is about 0.45 Km N of the area
Green belt	1.5KLD	Other domestic activities through road tankers supply
Dust suppression	1.5KLD	From road tankers supply
Total	4.5 KLD	

Table 5. Water Balance

8. Manpower

Total manpower required for the project is approximately 16 persons. Workers will be from nearby villages.

1.	Skilled	Mine Foreman/ Permit	1No.
		Mines Manager	
		Jack hammer operator	3 No.
		Blaster /Mate	2 No.

Table 6. Man Power

Project	Rough stone and Gravel Quarry A 24 0 Ha by Thiru S Marimuthu	Draft FIA
110jeci	Rough sione and Graver Quarry 4.24.0 Ha by Intra.5.Martinuuna	Druji LIA
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2.	Unskilled	Musdoor / Labours	7 Nos
		Cleaners	2 Nos
		helper	1 No
		Total =	16Nos

No child less than 18 years will be entertained during quarrying operations.

9. Solid Waste Management

Table 7 Solid Waste Management

S. No	Туре	Quantity	Disposal Method
1	Organic	2.8 kg/day	Municipal bin including food waste
2	Inorganic	4.32 kg/day	TNPCB authorized recyclers

As per CPCB guidelines: MSW per capita/day =0.45 kg/day

Table 8. 500m Radius Cluster Mine

1) Existing other quarries:

S. No.	Name of the Owner	Village & Taluk	S.F.Nos.	Extent in Hect.	Lease Period
1	Thiru.C.Selvarajpandi, D.No.676-D, Andal Nagar, 2 nd Street, Kunnoor, Srivilliputhur.	Kottaiyur	S.F.No.18/3, 19/3, 19/5, 20/1, 20/2A, 20/2B, 20/3A, 20/3B, 20/4A1, 20/4A2, 20/4B	Ext: 4.03.00 Hects	17.05.2018 to 16.05.2023

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	1		1		
	Thiru.R.Rajeshkanna,		S.F.No.2/3, 2/6,	Ext:1.20.50	KV1/15033/2015
	S/o.P.Ramraj,		2/7	Hects	dated:16.11.2017
	Andipatti Pandalgudi	Kottaiyur			Modified MP
	Post, Aruppukottai				KV1/15033/2015-
	Taluk, Virudhunagar				1
2	District.				dated:28.05.2019
					27.12.2017 to
					26.12.2022
					Modified MP
					27.09.2018 to
					26.12.2022
	Tmt.C.Vannamuthu		13/3A1	Ext:0.46.00	KV1/482/2018
2	W/o.Chellakanni			Hects	Dated:18.07.2020
3	2/183A, Thathampatti,	Kottaiyur			26.08.2020 to
	T.Sedapatti post.				25.08.2025

2) Details of abandoned /Old Quarries

S. No.	Name of the Owner	Village & Taluk	S.F.Nos.	Extent in Hect.	Lease Period
		Nil			

3) Details of Present Proposed quarries

S. No.	Name of the Owner	Village & Taluk	S.F.Nos.	Extent in Hect.	Lease Period
	Thiru S Marimuthu		S.F.No.	Ext:	
1	S = S = D = 1/117	Vottoivar	10/12,	4.24.00	KV1/519/2020
1.	Melatham Kadapari villaga	Kottaryur	11/2A,	Hects	Dated:23.09.2020
	wiciameru, Kadaneri village,		11/2C,		

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Wathraytiruppu	Taluk,	11/2D,	
Virudhunagar Distric	t.	11/2E,	
		11/2F,	
		11/2G(P),	
		11/2H(P),	
		11/2I(P),	
		11/2J2B,	
		15/2B1	

10. Land Requirement

The total extent area of the project is 4.24.0 Ha, Patta Land in Kottaiyur Village of Virudhunagar Taluk, Virudhunagar District.

SI No	Land Use	Area in use during the quarrying
01.110.		period (Hect)
1.	Mining / Excavation at	1.22.2
	present	
2.	Storage of top soil& weathered	0.00.0
2.	rock	
3	Stocking & Mineral Dressing	0 00 0
	Yard	
4.	Infrastructure	0.01.0
5.	Mine Road	0.03.0
6.	Afforestation & Mine safety	0.86.3
7.	Future Mining	2.11.5
8.	Undisturbed area	0.00.0
	Total	4.24.0

Table 9 Land Use Breakup

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11. Human Settlement

There are no habitations within 300m radius. There are villages located in this area within 15 km radius of the quarry.

S. NO	DIRECTION	VILLAGE	POPULATION	DISTANCE
1	North	M.Chinnaiyapuram	1,000	0.5 Km
		Valayapatti	650	2.0 Km
		Meenakshipuram	550	3.0 Km
		Chokkalingapuram	500	4.0 Km
2	NorthEast	Koothiparai	500	4.0 Km
		Ramakudumbanpatti	350	3.0 Km
3	NorthWest	Sanapatti	450	4.0 Km
		Vachakarapatti	1,700	5.0 Km
4		Virarpatti	1,000	2.0 Km
	South	Appaiyanaickerpatti	1,500	3.0 Km
4	South	Puthupatti	650	3.5 Km
		Nallamanaickerpatti	1,200	4.5 Km
5	SouthEast	Sundaralingapuram	400	4.5 Km
6	SouthWest	Sundarlingapuram	500	4.0 Km
	South west	Golwarpatti	450	4.5 Km
7	East	Kottaiyur	1,000	1.5 Km
	Last	Bommaiyapurm	550	4.0 Km 3.0 Km 4.0 Km 5.0 Km 2.0 Km 3.0 Km 3.5 Km 4.5 Km 4.5 Km 4.5 Km 4.5 Km 4.5 Km 4.0 Km 2.0 Km 3.5 Km
8	West	Mannarkottai	650	2.0 Km
	VV CSL	Aavudaiyapuram	1,500	3.5 Km

Table 10 Habitation

12. Power Requirement

The proposed Rough stone quarrying does not require any power supply for the quarrying operation. **16 Litre** diesel per hour for excavator for mining and loading for Rough stone needed and **10 Litre** diesel per hour for excavator for mining and loading for Top soil.

13. Scope of the Baseline Study

This chapter contains information on existing environmental scenario on the following parameters.

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- 1. Micro Meteorology
- 2. Water Environment
- 3. Air Environment
- 4. Noise Environment
- 5. Soil / Land Environment
- 6. Biological Environment
- 7. Socio-economic Environment

13.1 Micro – Meteorology

Meteorology plays a vital role in affecting the dispersion of pollutants, once discharged into the atmosphere. Since meteorological factors show wide fluctuations with time, meaningful interpretation can be drawn only from long-term reliable data.

- i) Average Minimum Temperature : 30° C
- ii) Average Maximum Temperature. : 38°C
- iii) Average Annual Rainfall of the area : 829 mm

13.2 Air Environment

Ambient air monitoring was carried out on monthly basis in the surrounding areas of the Mine Lease area to assess the ambient air quality at the source. To know the ambient air quality at a larger distance i.e. in the study area of 5 km. radius, air quality survey has been conducted at 5 locations. Major air pollutants like Particulate Matter (PM10), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) were monitored and the results are summarized below.

The baseline levels of PM_{10} (41- 61 µg/m³), $PM_{2.5}$ (17- 30 µg/m³), SO_2 (5-13 µg/m³), NO_2 (9-27 µg/m³), all the parameters are well within the standards prescribed by National Ambient Air Quality during the study period from June to August 2022.

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13.3 Noise Environment

The maximum Day noise and Night noise were found to be 60 dB(A) and 49 dB(A) respectively in Bommayapuram Primary school. The minimum Day Noise and Night noise were 40 dB(A) and 32 dB(A) respectively which was observed in project site. The observed values are all well within the Standards prescribed by CPCB.

13.4 Water Environment

- The average pH ranges from 7.56 8.16.
- TDS value varied from 575 mg/l to 2112 mg/l
- Hardness varied from 93.8 to 898 mg/1
- Chloride varied from 89.8 to 476 mg/1

13.5 Land Environment

The analysis results shows that the majority of soil in the project and surrounding area is slightly alkaline in nature and pH value ranges from 6.99 to 7.69 with organic matter 0.21 to 0.45 %. The concentration of Nitrogen, Phosphorus & Potassium has been found to be in good amount in the soil samples.

13.6 Biological Environment

The proposed Mining lease area is mostly dry barren ground with small shrubs and bushes. No specific endangered flora & fauna exist within the mining lease area.

14. Rehabilitation/ Resettlement

The overall land of the mine is a Patta land. There are no displacement of the population within the project area and adjacent nearby area. Social development of nearby villages will be considered in this project.

The mine area does not cover any habitation. Hence the mining activity does not involve any displacement of human settlement.

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15. Greenbelt Development

1. The development of greenbelt in the peripheral buffer zone of the mine area.

Green belt has been recommended as one of the major component of Environmental Management Plan, which will improve ecology, environment and quality of the surrounding area.
 Local trees like Neem, Vilvam, Panai, etc will be planted along the lease boundary and avenues as well as over Non-active dumps at a rate of 440 trees per annum with interval 5m.

4. The rate of survival expected to be 70% in this area

Table:111 fantation/ Anorestation 1 logram			
Name of species proposed	Survival	No of species	
Neem, Vilvam, Vaagai, Eachai, Naval, Mantharai, Magizha			
Maram, Vila Maram, Poo Marudhu, Panai, Marudha maram,	70%	2200	
Thandri, Sengondrai, Poovarasu, Thethankottai Maram,	7070	2200	
Pungam			
Total		2200	

Table.11Plantation/ Afforestation Program

16. Anticipated Environmental Impacts

16.1 Air Environment and Mitigation Measures

1. Water sprinkling will be done on the roads & unpaved roads.

- 2. Proper mitigation measures like water sprinkling will be adopted to control dust emissions.
- 3. Plantation will be carried out on approach roads, solid waste site & nearby mine premises.
- 4. To control the emissions regular preventive maintenance of equipments will be carried out.

16.2 Noise Environment and Mitigation Measures

1. Periodical monitoring of ambient noise will be done as per CPCB guidelines.

2. No other equipment except the transportation vehicles and excavator for loading will be allowed.

3. Noise generated by these equipments shall be intermittent and does not cause much adverse impact

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17. Responsibilities for Environmental Management Cell (EMC)

The responsibilities of the EMC include the following:

- i. Environmental Monitoring of the surrounding area
- ii. Developing the green belt/Plantation
- iii. Ensuring minimal use of water
- iv. Proper implementation of pollution control measures

18. Environmental Monitoring Program

A monitoring schedule with respect to Ambient Air Quality, Water & Wastewater Quality, Noise Quality as per Tamil Nadu State Pollution Control Board (TNPCB), shall be maintained.

19. Project Cost

The total project cost is **Rs 1,12,22,850/-** for deployment of machinery and creation of infrastructural facilities like approach road, mine office / Workers Shed, First Aid Room etc., including electrifications and water supply

S. No.	Description	Cost (Rs.)
1	Investment Cost	8,25,000/-
2	Expenditure Cost	1,09,67,765 /-
	Total	1,12,22,850/-

Table .12Project Cost details

Environmental Management Cost : Rs.6,65,000 /-

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20. Corporate Environmental Responsibility

The Corporate Environment Responsibility (CER) fund will be provided to the below activity.

S.No.	CER Activity	CER value (Rs)
1.	Government Higher Secondary School, Appayanaickenpatti	5,00,000
	Provision of	
	 Infrastructure, additional class room 	
	 Environmental books for library (in Tamil language), 	
	 Greenbelt facilities and 	
	> Basic amenities such as safe drinking water, Hygienic Toilets	
	facilities, furniture.	
Total		5,00,000

Table 13 CER Cost

21. Benefits of the Project

- There is positive impact on socio-economics of people living in the villages. Mining operations in the subject area has positive impact by providing direct and indirect jobs opportunities
- The project is environmentally compatible, financially viable and would be in the interest of construction industry thereby indirectly benefiting the masses.
- Quarrying in this area is not going to have any negative impact on the social or cultural life of the villagers in the near vicinity.
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1 Introduction

1.1 PREAMBLE

Environment Impact Assessment (EIA) is a process used to identify the environmental, social & economic impacts of a project prior to decision making. It aims to predict environmental impacts at an early stage of project planning and design, find ways and means to reduce adverse impacts, shape projects to suit the local environment and present the prediction options to the proponent. By using EIA, both environmental & economic benefits can be achieved. By considering environmental effects - prediction & mitigation, early benefits in project planning, protection of the environment, optimum utilization of resources, thus saving overall time & cost of the project.

1.2 GENERAL INFORMATION ON MINING OF MINERALS

Virudhunagar is endowed with minor mineral resources like, granite (Leptynite), blue metal, gravel, brick soil, Limekankar, Clay (others) and sand deposit and the crystalline limestone is major mineral resource in the District. As a result of developmental activities and market demand for minor minerals, mining of minor mineral is vital. The mining if not carried out systematically, will result in ill-effects and environmental degradation in project effected area. Therefore a sustainable development of the area involving extraction of mineral wealth vis-à-vis protection of environment is the ultimate solution for betterment of mankind.

The Mining of minor minerals like Limekankar, Blue metal, Dimension stone, brick sand and Gravels are active in the district. Private companies play a major role in mining activity for minor minerals, whereas the Government agency takes part in mining dimension stones in the district. In total, 143 no's quarry for blue metal/rough stone, 34 granite (leptynite) quarry for dimension stone, 26 for limestone, 9 for gravel and 12 for brick earth quarries are available in the Virudhunagar district. As per District Survey Report For Rough stone Virudhunagar District 2018-2019 Prepared as per Gazette Notification S.O.3611 (E) dated 25.07.2018 of Ministry of Environment, Forest and Climatic Change, the total production of Rough Stone in the year 2018-2019 was 1635802.76 Cum

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1.3 ENVIRONMENTAL CLEARANCE

As per EIA Notification, 2006 and its subsequent amendments (O.M vide No.F.No.L-11011/175/2018-IA-II(M) Govt of India MOEF&CC on December 12th 2018) project comes under category B1 cluster & schedule 1(a) under item 1

The proposed project is categorized under Category "B1" 1(a) (Cluster) - {Mining of Minerals} as the 500m radius area is more than 5 Ha including the mine lease area. Hence, the project will be considered at SEAC, Tamil Nadu.



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1.4 TERMS OF REFERENCE (TOR)

The Terms of Reference have been issued by SEAC TN vide Letter No. SEIAA-TN/F. No. 9319/SEAC/ToR-1232/2022 Dated: 30.08.2022.39 additional ToR points were recommended by SEAC TN in addition to the Standard ToR Points. The replies for the same were addressed in this report.

1.5 POST ENVIRONMENTAL CLEARANCE MONITORING

1.5.1 Methodology adopted

Post project monitoring will be carried out as per conditions stipulated in environmental clearance letter issued by SEIAA, consent issued by SPCB as well as according to CPCB guidelines. The lease area is considered as core zone and the area lying within 10 km radius from the lease boundary is considered as buffer zone, where some impacts may be observed on physical and biological environment. In the buffer zone slight impact may be observed and that too is occasional.

S. No.	Description	Frequency of Monitoring
1.	Ambient Air Quality Monitoring	Quarterly/ Half Yearly
2.	Water level & Quality Monitoring	Quarterly/ Half Yearly
3.	Noise Level Monitoring	Quarterly/ Half Yearly
4.	Soil Quality Monitoring	Yearly
5.	Medical Check-up	Yearly

Table 1-1: Post Environmental Clearance Monitoring

1.6 GENERIC STRUCTURE OF THE EIA DOCUMENT

Chapter 1: Introduction. This chapter contains the general information on the mining of minerals, major sources of environmental impacts in respect of mining projects and details of environmental clearance process.

Chapter 2: **Project Description**. In this chapter the proponent should also furnish detailed description of the proposed project, such as the type of the project, need for the project, project location, layout, project activities during construction and operational phases, capacity of the project, project operation

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i.e., land availability, utilities (power and water supply) and infrastructure facilities such as roads, railways, housing and other requirements. If the project site is near a sensitive area it is to be mentioned clearly why an alternative site could not be considered. The project implementation schedule, estimated cost of development as well as operation etc should be also included.

Chapter 3: Analysis of Alternatives (Technology and Site). This chapter gives details of various alternatives both in respect of location of site and technologies to be deployed, in case the initial scoping exercise considers such a need.

Chapter 4: Description of Environment. This chapter should cover baseline data in the project area and study area.

Chapter 5: **Impact Analysis and mitigation measures**. This chapter describes the anticipated impacts on the environment and mitigation measures. The method of assessment of impacts including studies carried out, modelling techniques adopted to assess the impacts where pertinent should be elaborated in this chapter. It should give the details of the impacts on the baseline parameters, both during the construction and operational phases and suggests the mitigation measures to be implemented by the proponent.

Chapter 6: Environmental Monitoring Program. This chapter should cover the planned environmental monitoring program. It should also include the technical aspects of monitoring the effectiveness of mitigation measures.

Chapter 7: Additional Studies. This chapter should cover the details of the additional studies required in addition to those specified in the ToR and which are necessary to cater to more specific issues applicable to the particular project.

Chapter 8: **Project Benefits**. This chapter should cover the benefits accruing to the locality, neighborhood, region and nation as a whole. It should bring out details of benefits by way of improvements in the physical infrastructure, social infrastructure, employment potential and other tangible benefits.

Chapter 9: Environmental Cost Benefit Analysis. This chapter should cover on Environmental Cost Benefit Analysis of the project.

Chapter 10: Environmental Management Plan. This chapter should comprehensively present the Environmental Management Plan (EMP), which includes the administrative and technical setup, summary matrix of EMP, the cost involved to implement the EMP, both during the construction and

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operational phase and provisions made towards the same in the cost estimates of project construction and operation. This chapter should also describe the proposed post-monitoring scheme as well as interorganizational arrangements for effective implementation of the mitigation measures.

Chapter 11: Summary and Conclusions. This chapter gives the summary of the full EIA report condensed to ten A-4 size pages at the maximum. It should provide the overall justification for implementation of the project and should explain how the adverse effects have been mitigated.

Chapter 12: Disclosure of Consultants. This chapter should include the names of the consultants engaged with their brief resume and nature of consultancy rendered.

1.7 DETAILS OF PROJECT PROPONENT

Project Proponent	: Thiru.S.Marimuthu
Status of the Proponent	: Private & Individual
Proponent's Name & Address	: D.No. 4/117, Melatheru,
	Kadaneri Village, Wathirayiruppu Taluk,
	A.Thulukappatti Post,
	Virudhunagar District.
	Pin Code: 626149.

1.8 BRIEF DESCRIPTION OF THE PROJECT

1.8.1 Project Nature, Size & Location

As per EIA Notification, 2006 and its subsequent amendments (O.M vide No.F.No.L-11011/175/2018-IA-II(M) Government of India MoEF & CC on December 12th 2018) project comes under category B1 cluster & schedule 1(a) under item 1.

Proposed proposal pertains to Rough stone mining project by open cast mechanized method on allotted mine lease area at Kottaiyur Village, Virudhunagar Taluk of Virudhunagar District, Tamil Nadu. It is a plain terrain. The total allotted mine lease for the proposed project is 4.24.0 Ha with their maximum production capacity i.e. 4,89,305 m³ of Rough stone for the period of Five years only.

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Figure 1.1: Location Map of the Project site

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	

2 Project Description

This chapter furnishes detailed description of the proposed project, such as the type of the project, need for the project, project location, layout, project activities during mining, capacity of the project, project operation i.e., land availability, utilities (power and water supply) and infrastructure facilities such as roads, railways, housing and other requirements. The project implementation schedule estimated cost for carrying out entire mining activity is included.

2.1 <u>GENERAL</u>

Proposed proposal pertains to Rough stone mining project by open cast mechanized method on allotted mine lease area at Kottaiyur Village, Virudhunagar Taluk of Virudhunagar District, Tamil Nadu. It is a Plain terrain. We have obtained fresh mining plan from 2022 to 2027 from Department of Geology and Mining, Virudhunagar District for 4.24.0 Ha land area in the S.F.Nos. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 for a proposed mining depth of 41 m below ground level and five years production of 4,89,305 m³ of Rough stone.

Type of the project:

As per EIA Notification, 2006 and its subsequent amendments (O.M vide No.F.No.L-11011/175/2018-IA-II(M) Government of India MoEF & CC on December 12th 2018) project comes under category B1 cluster & schedule 1(a) under item 1. The project required to be appraised at state level by State Environment Impact Assessment Authority, Tamil Nadu. Environment Clearance study will involve preparation of draft EIA report on the basis of baseline & impact assessment study is carried out. Also, before appraisal, under 7(III) of EIA notification 2006, the project involves the Public Consultation and the same will be conducted under SPCB (TN) in Virudhunagar District. The proceedings of the same will be incorporated in the Final EIA Report. The mines within 500m radius from the project site is listed below.

Project	Rough stone Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA Report
Project Proponent	Thiru.S.Marimuthu	
Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	

Table 2-1: Quarry within 500m Radius

1) Existing other quarries:

S.	Name of the Owner	Village &	S E Noo	Extent in	Lassa Daria d
No.	Name of the Owner	Taluk	5.F . I NOS.	Hect.	Lease Period
1	Thiru.C.Selvarajpandi, D.No.676-D, Andal Nagar, 2 nd Street, Kunnoor, Srivilliputhur.	Kottaiyur	S.F.No.18/3, 19/3, 19/5, 20/1, 20/2A, 20/2B, 20/3A, 20/3B, 20/4A1, 20/4A2, 20/4B	Ext: 4.03.00 Hects	17.05.2018 to 16.05.2023
2	Thiru.R.Rajeshkanna, S/o.P.Ramraj, Andipatti Pandalgudi Post, Aruppukottai Taluk, Virudhunagar District.	Kottaiyur	S.F.No.2/3, 2/6, 2/7	Ext:1.20.50 Hects	KV1/15033/2015 dated:16.11.2017 Modified MP KV1/15033/2015- 1 dated:28.05.2019 27.12.2017 to 26.12.2022 Modified MP 27.09.2018 to 26.12.2022
3	Tmt.C.Vannamuthu W/o.Chellakanni 2/183A, Thathampatti, T.Sedapatti post.	Kottaiyur	13/3A1	Ext:0.46.00 Hects	KV1/482/2018 Dated:18.07.2020 26.08.2020 to 25.08.2025

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2) Details of abandoned /Old Quarries

S. No.	Name of the Owner	Village & Taluk	S.F.Nos.	Extent in Hect.	Lease Period
		Nil			

3) Details of Present Proposed quarries

S. No.	Name of the Owner	Village & Taluk	S.F.Nos.	Extent in Hect.	Lease Period
1.	Thiru.S.Marimuthu, S/o.S.Sundaram, D.No.4/117, Melatheru, Kadaneri village, Wathraytiruppu Taluk, Virudhunagar District.	Kottaiyur	S.F.No. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B, 15/2B1	Ext: 4.24.00 Hects	KV1/519/2020 Dated:23.09.2020

The Total extent of the Existing / Lease expired / Proposed quarries are 9.93.50 Ha

2.1.1 Need for the project:

The said project plays a significant role in the domestic as well as infrastructural market. To achieve a huge infrastructure being envisaged by Government of India, particularly in road and housing sector, there is a need for basic building materials, the rough stone form the primary building material.

Rough stone is one of the most valuable natural building materials. Aggregates are mostly used for building roads and footpaths. Aggregates – stone used for its strong physical properties – crushed and sorted into various sizes for use in concrete, coated with bitumen to make asphalt or used 'dry' as bulk fill in construction.

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Mostly used in roads, concrete and building products. Aggregates represent about 98% of quarry output, most of which is used in road construction, maintenance and repair. Much of this goes to the production of asphalt; the remainder is used 'dry' without the addition of other materials to provide a sturdy base for roads.

Rocks and minerals of economic importance found to occur in Krishnagiri District are Roughstone deposits suitable for the production of Jelly, Cut stones and Pillar Stones.

As a result of developmental activities and market demand for minor minerals, mining of minor mineral is vital. In addition to that, geological reserves of rough stone is abundant in the project area which is evident from the mine activities carried out in the nearby sites.

2.2 BRIEF DESCRIPTION OF THE PROJECT

Table	2-2	Salient	Features	of	the	Project

S. No.	Description	Details
1	Project Name	Thiru. S.Marimuthu Rough Stone Quarry
2	Proponent	Thiru. S.Marimuthu
3	Mining Lease Area Extent	4.24.0 Ha
4	Location	10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1
5	Latitude	Latitude : 09° 26' 11.60" to 09° 26' 19.15" N
6	Longitude	Longitude : 77° 58' 45.20" to 77° 58' 56.07" E
7	Topography	Plain terrain
8	Site Elevation above MSL	86 m from AMSL
9	Topo sheet No.	58 G/15 & 58 K/3 of Survey of India
10	Minerals of Mine	Rough Stone and Gravel Quarry
11	Proposed production of Mi	489305 m ³ of Rough stone
12	Ultimate depth of Mining	41 m below ground level
13	Method of Mining	Open cast mechanized mining

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	

14	Water demand	4.5 KLD
15	Source of water	Water will be supplied through tankers supply
16	Man power	16Nos.
17	Mining Plan Approval	Mining Plan was approved by The Assistant Director, Geology & Mining, Virudhunagar vide letter Roc.No.KV1/519/2020 dated 27.05.2022.
18	Precise area communica letter	Precise Area Communication Letter received from Assistant Director, Department of Geology and Mining; Virudhunagar vide letter KV1/519/2020-Kanimam dated 25.02.2021
19	Production details	Geological reserves: 14,61,660 m ³ of Rough stone Proposed year wise reserves: 4,89,305 m ³ of Rough stone
20	Boundary Fencing	7.5 m barrier all along the boundary for adjacent patta lands and 10 m safety distance for Govt. Lands. Fencing will be provided.
21	Disposal of overburden	The overburden is in the form of top soil and weathered rock formation. It will be quarried for filling purposes to nearby end users and part of soil will be preserved all along the boundary as barrier for afforestation.
22	Ground water	Ground water table in this area is below 60 mts from ground level. The quarrying is up to a maximum depth of 41m below the ground level. Hence the quarry operation will not be affected by the ground water. There are few agricultural wells within 1 km radius of the project area. During monsoon and rainy seasons the water level is at 10mts BGL and during summer it becomes dry.
23	Habitations within 300m	There is no Habitation within 300m radius of the project site
24	Drinking water	Water will be supplied through tankers from MC Puram village which is 0.45 Km North of the area

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Figure 2.1: Location Map of the Project Site

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Project Proponent	Thiru.S.Marimuthu	
Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	



Figure 2.2: Google Earth Image and Coordinates of the Project Site

2.2.1 Site Connectivity:

The site is connected to the roadways as follows.

NH 44 - Srinagar to Kanniyakumari - 6 km, W

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Figure 2.3: Site Connectivity

2.3 LOCATION DETAILS:

Table 2-3: Location Details

S. No	Particulars	Details
1.	Latitude	Latitude : 09° 26' 11.60" to 09° 26' 19.15" N
2.	Longitude	Longitude : 77° 58' 45.20" to 77° 58' 56.07" E
3.	Site Elevation above MSL	86 m AMSL
4.	Topography	Plain Terrain
5.	Land use of the site	Patta land
6.	Extent of lease area	4.24.0 Ha

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Figure 2.4: Topo Map of Project Site

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Figure 2.5: Environmental Sensitivity within 15km radius

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	

2.3.1 Site Photographs

The site photographs of the project site are as follows

North: 12°35'55.59"N, 77°47'24.47"E

Virudhunagar, Tamilnadu



East: 12°35'53.87"N, 77°47'27.71"E Virudhunagar, Tamilnadu



Virudhunagar, Tamilnadu



West: 12°35'54.67"N, 77°47'24.70"E Virudhunagar, Tamilnadu





Figure 2.6: Site Photographs

Project	Rough stone Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA Report
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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	

2.3.2 Land Use Breakup of the Mine Lease Area

The Mine Lease area is Plain terrain. The land use pattern of the mine lease area as follows.

Table 2-4: Land use pattern

Sl. No.	Land Use	Area in use during the quarrying
		period (fleet)
1.	Mining / Excavation at present	1.22.2
2.	Storage of top soil& weathered rock	0.00.0
3.	Stocking & Mineral Dressing Yard	0.00.0
4.	Infrastructure	0.01.0
5.	Mine Road	0.03.0
6.	Afforestation & Mine safety	0.86.3
7.	Future Mining	2.11.5
8.	Undisturbed area	0.00.0
	Total	4.24.0

2.3.3 Human Settlement

There are no habitations within the radius of 300m. The nearby habitations are as follows

Table 2-5: Habitation

S. NO	DIRECTION	VILLAGE	POPULATION	DISTANCE
		M.Chinnaiyapuram	1,000	0.5 Km
1	North	Valayapatti	650	2.0 Km
1		Meenakshipuram	550	3.0 Km
		Chokkalingapuram	500	4.0 Km
2	NorthEast	Koothiparai	500	4.0 Km
3	NorthWest	Ramakudumbanpatti	350	3.0 Km
	inoitii west	Sanapatti	450	4.0 Km

	-	
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		Vachakarapatti	1,700	5.0 Km
		Virarpatti	1,000	2.0 Km
1	South	Appaiyanaickerpatti	1,500	3.0 Km
4	South	Puthupatti	650	3.5 Km
		Nallamanaickerpatti	1,200	4.5 Km
5	SouthEast	Sundaralingapuram	400	4.5 Km
6	CouthWest	Sundarlingapuram	500	4.0 Km
o South	South west	Golwarpatti	450	4.5 Km
7	East	Kottaiyur	1,000	1.5 Km
/		Bommaiyapurm	550	4.0 Km
8	West	Mannarkottai	650	2.0 Km
	vv est	Aavudaiyapuram	1,500	3.5 Km

2.4 LEASEHOLD AREA

The Rough Stone Quarry mine of 4.24.0 Ha is a patta land. The lease area falls in S.F No: 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District. There is no reserve forest or protected forest land within the lease area. There is neither human settlement within 300m radius from the lease area.

2.5 <u>GEOLOGY</u>

Virudhunagar district is bordered by Western Ghats (Ridge and valley complex) in the West. Valley fill area is observed in Watrap block. A major part of the district constitutes a plain terrain with a gentle slope toward East and Southeast, except for the hilly terrain in the west. The prominent geomorphic units identified in the district through interpretation of Satellite imagery are; 1. Flood Plain, 2. Bazada, 3. Pediment, 4. Shallow & deep buried Pediments and 6. Structural Hills. (Source – CGWB).

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Project Proponent Thiru.S.Marimuthu	
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Figure 2.7: Geomorphology

	-	
Project	Rough stone Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA Report
Project Proponent	Thiru.S.Marimuthu	
Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	



Figure 2.8 Lithology

2.6 **QUALITY OF RESERVES:**

The mining lease area is of 4.24.0 Ha, with production capacity of 4,89,305 m³ of Rough Stone. Due to significant role in the domestic as well as infrastructural market, making the mining of Stone and gravel along with associated minor minerals is economically viable.

Table 2-6: Details of Mining

S. No	Particulars	Details
1	Method of Mining	Open Cast mechanized

Project	Rough stone Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA Report
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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	

2	Geological Reserves	1461660 m ³ of Rough stone
3	Recoverable Reserves	489305 m ³ of Rough stone
4	Proposed Production	489305 m ³ of Rough stone
5	Elevation Range of the Mine Site	86 m AMSL

2.6.1 Geological Reserves

Top Soil: The total volume of top soil will be 96090 Cum

Rough Stone and Gravel:

The Availability Geological Reserve is estimated as 1461660 Cum respectively upto the permissible depth. Top soil is calculated upto a depth of 6m and Rough stone at a depth of 35m. Total depth – 41m below ground level

			5		
	LENGTH	WIDTH	HEIGHT	ROUGH	TOP SOIL &
	(M)	(M)	(M)	STONE	GRAVEL
				VOLUM	VOLUME M ³
				$\mathbf{E} \mathbf{M}^3$	
۸ ۸'& B B'	62	104	6.0	-	38,688
A-A & D-D	62	104	35.0	2,25,680	-
	168	110	3.0	-	55,440
A-A & C-C	168	110	38.0	7,02,240	-
	80	80	3.0	-	19,200
C-C & D-D	80	80	38.0	2,43,200	-
с с, 6 с с,	110	86	6.0	-	56,760
$E-E \propto F-F$	110	86	35.0	3.31.000	-
TOTAL GEOLOGICAL RESERVES 15,02,220 1,70,088					
Evicting nite	134	55	3.0	-	(-)22,110
$\Delta \Lambda' \& C C'$	132	38	5.0	(-)27,060	-
A-A & C-C					
C–C' & D–D'	62	46	3.0	-	(-) 8,556
	60	45	5.0	(-)13,500	-
LESS - ALREADY EXCAVATED (-)40,560 (-)30,666					
BALANCE GEOLOGICAL RESERVES14,61,6601,39,422					

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	

2.6.2 Mineable Reserves

Top Soil:

The thickness of the topsoil in this area is 6m and the total volume of top soil will be 96090 Cum

Rough stone:

Mineable and Recoverable Reserves is estimated as 489305 Cum & 489305 Cum of Rough Stone respectively upto the permissible depth. Total depth – 41m below ground level.

SECTION	LENGTH	WIDTH	HEIGHT	ROUGH STONE	TOP SOIL &
	(M)	(M)	(M)	VOLUME	GRAVEL
				(M ³)	VOLUME
					(M ³)
	53	86	6.0	-	27,348
	46	72	5.0	16,650	-
	41	62	5.0	12,710	-
A–A' & B–	36	52	5.0	9,360	-
B'	31	42	5.0	6,510	-
	26	32	5.0	4,160	-
	21	22	5.0	2,310	-
	16	12	5.0	960	-
	160	101	3.0	-	48,480
	153	94	5.0	71,910	-
	148	89	5.0	65,860	-
A–A' & C–	143	84	5.0	60,060	-
C'	138	79	5.0	54,510	-
	133	74	5.0	49,210	-
	128	69	5.0	44,160	-
	123	59	5.0	36,285	-
	72	62	3.0	-	13,392
	65	48	5.0	15,600	-
C–C' & D–	60	38	5.0	11,400	-
D'	55	28	5.0	7,700	-
	50	18	5.0	4,500	-
	45	8	5.0	1,800	-
	92	68	6.0	-	37,536
E–E' & F–	78	54	5.0	21,060	-
F'	68	44	5.0	14,960	-
	58	34	5.0	9,860	-

Table 2-8: Mineable Reserves

Project	Rough stone Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA Report
Project Proponent	Thiru.S.Marimuthu	
Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhungar District	

	48	24	5.0	5,760	-
	38	14	5.0	2,660	-
ТОТ	AL MINEAE	BLE RESERV	5,29,865	1,26,756	
LESS	: ALREAD	Y EXCAVAT	(-)40,560	(-)30,666	
BALANCE MINEABLE RESERVES				4,89,305	96,090

2.6.3 Year wise Production Plan

The proposed rate of production of Rough Stone is about 489305 m³. Total Depth-41 m (6 m Top soil + 35 m Rough Stone).

Table 2-9: Year wise Production Plan

YEAR	SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	ROUGH STONE VOLUME (M ³)	GRAVEL VOLUME (M ³)
	ΛΛ'& BB'	18	86	6.0	-	9,288
	A-A & D-D	10	72	5.0	3,600	-
		160	101	3.0	-	48,480
I Voor	A-A' & C-C'	153	94	5.0	71,900	-
1- 1 Cal		78	89	5.0	34,710	-
		72	62	3.0	-	13,392
	C-C' & D-D'	65	48	5.0	15,600	-
		60	38	5.0	11,400	-
	SUB	- TOTAL I-	YEAR		1,37,220	71,160
LESS: ALREADY EXCAVATED PITS			(-)40,560	(-)30,666		
	I – YE	AR PRODU	CTION		96,660	40,494
		35	86	6.0	-	18,060
	A-A' & B-	36	72	5.0	12,960	-
TT V	B'	41	62	5.0	12,710	-
11- y ear		36	52	5.0	9,360	-
	A-A' & C-	70	89	5.0	31,150	-
	C'	79	84	5.0	33,180	-
	II – YE	EAR PRODU	CTION		99,360	18,060
	A-A' & B-	31	42	5.0	6,510	-
	В'	26	32	5.0	4,160	-
III-	A-A' & C-	64	84	5.0	26,880	-
Year	C'	138	79	5.0	54,510	-
	C-C' & D- D'	55	28	5.0	7,700	-
III – YEAR PRODUCTION					99,760	-

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	A-A' & B-	21	22	5.0	2.310	-
IV-	B'	16	12	5.0	960	-
YEAR	A-A' & C-	133	74	5.0	49,210	-
	C'	128	69	5.0	44,160	-
	IV – YI	EAR PRODU	CTION		96,640	-
	A-A' & C- C'	123	59	5.0	36,285	-
	C-C' & D-	50	18	5.0	4,500	
	D'	45	8	5.0	1,800	-
V-		92	68	6.0	-	37,536
YEAR	EAR	78	54	5.0	21,060	-
	с с , 6 сс,	68	44	5.0	14,960	-
	E-E & F-F	58	34	5.0	9,860	-
		48	24	5.0	5,760	-
		38	14	5.0	2,660	-
V – YEAR PRODUCTION					96,885	37,536
TOTAL PRODUCTION FOR FIVE YEARS				4,89,305	96,090	

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	



Figure 2.9 Year wise Production Plan

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2.7 <u>TYPE OF MINING</u>

The proposed project is an open cast mechanized mining with one with 5.0 meter vertical bench with a bench width of 5.0 meter. However, as far as the quarrying of Rough Stone is concerned, observance of the provisions of regulations 106(2) (b) as above is seldom possible due to various inherent petro genetic factors coupled with mining difficulties. Hence, it is proposed to obtain relaxation to the provisions of the above regulation from the Director of Mines Safety for which necessary provision is available with the Regulation 106(2) (b) of MMR-1961, under Mines Act- 1952.

2.7.1 Method of Working:

The Rough stone is proposed to quarry at 6m bench height & 5m width with conventional Open cast mechanized method. The quarrying operation will be carried out in conjunction with conventional method of mining using Jack hammer drilling and blasting for shattering effect and loosen the Rough stone.

2.7.2 Overburden

The overburden is in the form of top soil and weathered rock formation, it will be removed during the quarrying operation, the top soil preserved all along the boundary barrier for afforestation and remaining is salable. Hence there is no waste anticipated during the Rough stone quarry operation, the excavated rough stone will be directly loaded into the tippers for selling purpose locally.

2.7.3 Machineries to be used

Type of machineries proposed for quarrying operation for the entire project is listed below.

For Mining operation	Excavator of 0.9 Cu.m bucket capacity
	Jack Hammer (30-32 mm dia)
	Tractor mounted compressor
Loading Equipment	Excavator of 0.9 Cu.m bucket capacity
Transportation	Tipper 2 No. of 10/20 M.T capacity

Table 2-10: List of Machineries used

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2.7.4 Blasting:

2.7.4.1 Blasting Pattern:

The quarrying operation will be carried out in conjunction with conventional method of mining using Jack hammer drilling and blasting for shattering effect and loosen the Rough stone.

2.7.4.2 Drilling & Blasting:

Drilling and Blasting Parameters are as follows

Parameters	Details
Depth of each hole	1.2 m to 1.5m
Diameter of hole	30-32mm
Spacing between holes	0.5 m
Pattern of hole	Zigzag
Charge/Hole	0.5 kg.
Inclination of holes	80° from horizontal
Use of delay detonators	25 milli seconds delays
Detonating fuse	"Detonating" Cord

Table 2-11: Drilling and Blasting Parameters

2.7.4.3 Types of Explosives to be used:

Slurry Class 3 explosives, type of nitro compound are proposed to be used for shattering and heaving effect for removal and winning of Rough Stone. No deep hole drilling or primary blasting is proposed. Detonators of Class 3 and Safety fuse of Class 6 are used.

2.7.4.4 Measures to minimize ground vibration due to blasting:

The quarry is situated more than 1 km from the nearby villages. Controlled blasting measures will be adopted for minimizing the ground vibration and fly of rocks. Shallow depths jackhammer drilling & blasting is proposed to be carried out with minimum use of explosive mainly to give shattering effect in rough stone for easy excavation and to control fly of rock.

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Table 2-12: Blasting Details

Parameters	Details
Diameter of holes	32-32mm
Spacing between holes	0.5 m
Depth	1.2 to 1.5 m
Charge/Hole	0.5kg
Pattern of hole	Zig Zag
Inclination of Hole	80° from the horizontal
Blasting time	4.30 P.M to 5.30 P.M

2.7.4.5 Storage & Safety measures taken during blasting:

The project proponent "Thiru S.Marimuthu" will engage an authorized explosive agency to carry out the small amount of blasting and it will be supervised by Permit Mines Manager. The copy of the explosive certificate is attached as *Annexure*.

2.8 MAN POWER REQUIREMENTS

The manpower requirement to meet out the production Schedule and the machinery strength envisaged in the mining plan and to comply with the statutory provisions of the Mines Safety Regulations is as follows.

1.	Skilled	Mine Foreman/ Permit	1No.
		Mines Manager	
		Jack hammer operator	3 No.
		Blaster /Mate	2 No.
2.	Unskilled	Musdoor / Labours	7 Nos
		Cleaners	2 Nos
		helper	1 No
		Total =	16Nos

Table 2-13: Man Power Requirements

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No child less than 18 years will be entertained during quarrying operations.

2.8.1 Water Requirement

Total water requirement for the mining project is 4.5 KLD. Domestic water will be sourced from nearby MC Puram village and other water will be source from nearby road tankers supply.

Table 2-14: Water Requirment

Purpose	Quantity	Sources
Drinking Water	1.5 KLD	Packaged Drinking water vendors available in MC
		Fulant which is about 0.45km north of the area
Green belt	1.5KLD	Other domestic activities through road tankers
		supply
Dust suppression	1.5KLD	From road tankers supply
Total	4.5 KLD	

2.9 PROJECT IMPLEMENTATION SCHEDULE

The implementation schedule of the proposed Mine Lease of Thiru S.Marimuthu (4.24.0 ha) is as follows.

Table 2-15: Mining Schedule

MINING SCHEDULE					
Activity	Jan -24	Jan-25	Jan-26	Jan-27	Jan-28
Site Clearance					
Excavation – Rough stone/Overburden					
I Year Production – Cum – 96,660Rough Stone and					
40,494 Gravel					
II Year Production – Cum – 99,360Rough Stone and					
18,060 Gravel					
III Year Production – Cum – 99,760Rough Stone					
IV Year Production - Cum – 96,640Rough Stone					
V Year Production – Cum – 96,885Rough Stone					

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2.10 SOLID WASTE MANAGEMENT

Table 2-15: Solid Waste Management

S. No	Туре	Quantity	Disposal Method
1	Organic	2.8 kg/day	Municipal bin including food
			waste
2	Inorganic	4.32 kg/day	TNPCB authorized recyclers

As per CPCB guidelines: MSW per capita/day =0.45 kg/day

2.11 MINE DRAINAGE

The quarry operation is proposed up to a depth of 41 m below ground level. The water table is below 60 m from the ground level which is observed from the nearby bore wells and bore wells of this area. Hence the ground water will not be affected in any manner due to the quarrying operation during the entire lease period.

2.12 POWER REQUIREMENT

This Rough stone quarry project does not require huge water and electricity for the project.

16 Litre diesel per hour for excavator for mining and loading for Rough Stone needed and **10 Litre** diesel per hour for excavation of Top soil needed.

2.13 PROJECT COST

1	A. Fixed Asset Cost:		
	1. Land Cost	:	Rs. 4,50,000
	2. Labour shed	:	Rs.50,000
	4. Fencing Cost	:	Rs. 50,000
	Other Items	:	Rs.2,50,000
		:	Rs.25,000
	Total=		Rs. 8,25,000/-

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2 <u>B.</u> Expenditure Cost: Drilling and Blasting cost / unit production including loading & breaking.	:	Rs.60/-
 (i) Mining cost for rough stone up to 5 Years planned production quantity Total Minable quantity in M³ 		4,89,305 M ³ (1,72,900 Units)
Total cost of mining Rough Stone (ii) Mining cost for gravel & weathered rock for		1,72,900 X Rs. 60/- Rs. 1,03,74,000/-
5 Years planned production quantity Total Minable quantity in M3		96,090 M ³ (33,954 Units)
Total cost of mining - Gravel Total Cost for Mining		33,954 X Rs. 25/- Rs. 8,48,850/- Rs. 1,09,67,765/-
Total Project Cost(A+B)	:	Rs. 1,12,22,850/-

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I. EMP Cost :

S1.	DETAILS	COST per MONTH	Total Cost	TOTAL COST for 5 years LEASE
110.		(Rs.)	(Rs.)	PERIOD (Rs.)
i)	Drinking Water facility for 15 Laborers from water vendors	1,500	18,000	90,000
ii)	Sanitary maintenance for Rest rooms	1,500	18,000	90,000
iii)	Safety kits(mask, helmet, sanitizer, gloves, etc.,)	1,000	12,000	60,000
iv)	Water Sprinkling using own tractor for the area	2,500	30,000	1,50,000
v)	Afforestation, Plantation & Maintenance	25,000 (annually)	25,000	1,25,000
vi)	Environmental parameters testing expenses fees for every six months a. Air Monitoring b. Water analysis c. Noise Monitoring & d. Soil Testing	15,000 (bi- annual)	30,000	1,50,000
			TOTAL	6,65,000

2.14 GREENBELT

1. The development of greenbelt in the peripheral buffer zone of the mine area.

2. Green belt has been recommended as one of the major components of Environmental Management plan, which will improve ecology, environment and quality of the surrounding area.

3. Local trees like, Neem, Vilvam Vaagai, Naval etc will be planted along the lease boundary and avenues as well as over non-active dumps at a rate of 440 trees per annum with interval 5m.

4. The rate of survival expected to be 70% in this area

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Table. 2-17 Plantation/ Afforestation Program

Name of species proposed	Survival	No of species
Neem, Vilvam Vaagai, Eachai, Naval, Mantharai, Magizha		
Maram, Vila maram, Poo Marudhu, Panai Maram, Marudha	70%	2200
Maram, Thandri, Sengondrai, Poovarasu, Therthag kottai, Pungam		
Total	2200	

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3 Description of the Environment

3.1 **GENERAL:**

The method of mining for extracting rough stone quarry and gravel is required to be selected in such a manner to ensure sustainable development. Mining activities invariably affect the existing environmental status of the site. It has both adverse and beneficial effects. In order to maintain the environmental commensuration with the mining operation, it is essential to undertake studies on the existing environmental scenario and assess the impact on different environmental components. This would help in formulating suitable management plans and sustainable resource extraction.

To understand the existing environmental scenario, Baseline data helps in identification, prediction and evaluation of impacts in Environmental Impact assessment. Through field study, baseline data are collected considering various factors of the project. This includes-

- Physical- the area, the soil properties, the geological characteristics, the topography, etc
- Chemical- water, air, noise and soil pollution levels, etc.
- Biological- the biodiversity of the area, types of flora and fauna, species richness, species distribution, types of ecosystems, presence or absence of endangered species and/or sensitive ecosystems etc.
- Socioeconomic- demography, social structure, economic conditions, developmental capabilities, displacement of locals, etc.

3.1.1 Study Area:

The study area for the mining projects is as follows:

- Mine lease area as the "core zone"
- A study area of 10 km radius from the project boundary is designated as buffer Zone and for the study of Socio-economic status, 10 km radius from the boundary limits of the mine lease area has been selected.

We have obtained Terms of Reference from SEIAA vide Letter No. SEIAA-TN/ F. No. 9319/ ToR-1232/2022 Dated: 30.08.2022. The baseline monitoring is carried out in June to August 2022 and the

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analysis is briefed in the EIA report. The proponent has engaged M/s. Ecotech labs Pvt. Ltd for carrying out the existing baseline study.

3.1.2 Instruments Used

The following instruments were used at the site for baseline data collection.

- 1. Respirable Dust Sampler with attachment for gaseous Pollutants, Envirotech APM 460, APM411.
- 2. Fine Particulate Matter (FPM) Sampler, APM 550
- 4. Sound Level Meter Model SL-4010
- 5. 2000 series watchdog automatic weathering monitoring station
- 3.1.3 Baseline Data Collection Period:

The baseline data is collected in accordance with the CPCB Guidelines. The Baseline study is carried out from June to August 2022.

3.1.4 Frequency of Monitoring

Attributes	Sampling	Frequency
Air environment – Meteorological	Project site	1 hourly continuous
(wind speed, wind direction,		
rainfall, humidity, temperature)		
Air environment – Pollutants	5 locations	24 hourly twice a week
PM 10		4 hourly.
PM 2.5		Twice a week, One non-monsoon season
SO ₂		8 hourly, twice a week
NO _x		24 hourly, twice a week
Lead in PM		
Noise	5 locations	24 hourly Once in 5 locations
Water (Ground water)	5 locations	Once in 5 locations

Table 3-1: Frequency of Sampling and Analysis
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pH, Temperature, Turbidity, Magnesium Hardness, Total Alkalinity, Chloride, Sulphate, Fluoride, Nitrate, Sodium, Potassium, Salinity, Total nitrogen, Total Coliforms, Fecal Coliforms		
Water (surface water) pH, Temperature, Turbidity, Magnesium Hardness, Total Alkalinity, Chloride, Sulphate, Fluoride, Nitrate, Sodium, Potassium, Salinity, Total nitrogen, Total Coliforms, Fecal Coliforms	Sample from nearby lakes/river	One-time Sampling
Soil (Organic matter, Texture, pH, Electrical Conductivity, Permeability, Water holding capacity, Porosity)	5 locations	Once in 5 locations
Ecology and biodiversity Study	Study area covering 10 km radius	One-time Sampling
Socio- Economic study (Population, Literacy Level, employment, Infrastructure like school, hospitals & commercial establishments)	Villages around 10 km radius	One-time Sampling

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3.1.5 Secondary data Collection

Apart from the primary data, Secondary data is also used for the collection; collation; synthesis and interpretation

- Flora & Faunal Study
- Land use study
- Demography and socio-economic analysis
- Meteorological data, from Indian Meteorological Department (IMD)

3.1.6 Study area details

Table 3-2 Study area details

S. No	Description	Details	Source
1.	Project Location	S.F.No. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 - 4.24.0 Ha, Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu State	Field Study
2.	Latitude & Longitude	Latitude : 09° 26' 11.60" to 09° 26' 19.15" N Longitude : 77° 58' 45.20" to 77° 58' 56.07" E	Topo Sheet
3.	Topo Sheet No.	57 H/14	Survey of India Toposheet
4.	Mine Lease Area	4.24.0 Ha	
	Demo	ography in the study area (as per Census 2011)	
5.	Total Population	1187	Census
6.	Total Number of Households	319	Survey of India
7.	Maximum Temperature (°C)	38	IMD
8.	Minimum Temperature (°C)	30	

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9.	Ecological Sensitive Areas - Wetlands, watercourses or other waterbodies, coastal zone, biospheres, mountains, forests	 Arjuna River – 4.7 km, S Vaippar River-11 Km, S Mannarkottai Village Tank – 1.2km, NW Malaiarasan koil lake –14 km NE Periya Kanmai –14 km, NE Kullursandai Reservoir – 12km, N 			Google Earth/Field Study		
10.	Densely Populated area		Vir	udhunagar - 14.29	Km -NNW		
			S. No	Places Schools & Coll Government	Dist. From Project Site eges 1.94 km, S		
11.	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community		2	Higher secondary school, Veerapatti Government Higher secondary school,, Avudaiyapuram	3.29km, W		Google Earth/ Field Study
	facilities)		3	Government Higher secondary school, Naduvapatti	7.15km, W		
			4	Government Middle School, Sirukulam Hospitals	7.56km, S		

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		1	Government	14km, NE	
			Hospital,		
			Aruppukottai		
	Ī	2	Government	11km, SSW	
			Hospital, Sattur		

3.1.7 Site Connectivity:

The site is connected to (MDR-Irukkankudi road) – 0.79km, E



Figure 3.1: Site Connectivity

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3.2 LAND USE ANALYSIS

3.2.1 Land Use Classification

Land Use / Land Cover - Land Use refers to man's activity and the various uses, which are carried on land. Land Cover refers to natural vegetation, water bodies, rock/soil, artificial cover and others, resulting due to land transformation. The present Land Use/Land Classification map is developed with following objectives. The main objective of the study is to classify the different land use within 10 km from the project boundary.

3.2.2 Methodology

Information of land use and land cover is important for many planning and management activities concerning the surface of the earth (Agarwal and Garg, 2000). Land use refers to man's activities on land, which are directly related to land (Anderson et al., 1976). The land use and the land cover determine the infiltration capacity. Barren surfaces are poor retainers of water as compared to grasslands and forests, which not only hold water for longer periods on the surface, but at the same time allow it to percolate down.

The terms 'land use' and 'land cover' (LULC) are often used to describe maps that provide information about the types of features found on the earth's surface (land cover) and the human activity that is associated with them (land use). Satellite remote sensing is being used for determining different types of land use classes as it provides a means of assessing a large area with limited time and resources. However, satellite images do not record land cover details directly and they are measured based on the solar energy reflected from each area on the land. The amount of multi spectral energy in multi wavelengths depends on the type of material at the earth's surface and the objective is to associate particular land cover with each of these reflected energies, which is achieved using either visual or digital interpretation. In the present study the task is to study in detail the land use and land cover in and around the project site. The study envisages different LULC around the proposed project area and the procedure adopted is as below.

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Figure 3.2 Flow Chart showing Methodology of Land use mapping

3.2.3 Satellite Data

Sentinal 2 multispectral satellite data of 2020 was utilized for the present study. Details of satellite data is given below. The rectification of imagery was carried out on to bring the digital data on the earth coordinate system by means of ground control point (GCP) assignments/SOI topo sheets.

3.2.4 Scale of mapping

Considering the user defined scale of mapping, 1:50000 Sentinal 2 data was used for Land use / Land cover mapping of 10 km radius for proposed site. The description of the land use categories for 10 km radius and the statistics are given for 10 km radius.

3.2.5 Interpretation Technique

Standard on screen visual interpretation procedure was followed. The various Land use / Land cover classes interpreted along with the SOI topographical maps during the initial rapid reconnaissance of the

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study area. The physiognomic expressions conceived by image elements of color, tone, texture, size, shape, pattern, shadow, location and associated features are used to interpret the FCC imagery. Image interpretation keys were developed for each of the LU/LC classes in terms of image elements.

June 2016 FCC imagery (Digital data) of the study area was interpreted for the relevant land use classes. On screen visual interpretation coupled with supervised image classification techniques are used to prepare the land use classification.

- 1. Digitization of the study area (10 km radius from the proposed site) from the topo maps
- In the present study the sentinal satellite image and SOI topo sheets of 58J/10, 58J/11, 58J/14, 58J/15 have been procured and interpreted using the ERDAS imaging and ARC-GIS software adopting the necessary interpretation techniques.
- 3. Satellite data interpretation and vectorization of the resulting units
- Adopting the available guidelines from manual of LULC mapping using Satellite imagery (NRSA, 1989)
- 5. Field checking and ground truth validation
- 6. Composition of final LULC map

The LULC Classification has been done at three levels where level -1 being the broad classification about the land covers that is Built-up land, agriculture land, waste land, wet lands, and water bodies. These are followed by level –II where built-up land is divided into towns/cities as well villages. The Agriculture land is divided into different classes such as cropland, Fallow, Plantation, while wastelands are broadly divided into, Land with scrub and without Scrub and Mining and Industrial wasteland. The wetlands are classified into inland wetlands, coastal wetlands and islands. The water bodies are classified further into River/stream, Canal, Tanks and bay. In the present study level II classification has been undertaken. The SOI Topo map is presented in Annexure and Satellite imagery of 10 km radius from the project site is presented Annexure

3.2.6 Field Verification

Field verification involved collection, verification and record of the different surface features that create specific spectral signatures / image expressions on FCC. In the study area, doubtful areas identified in course of interpretation of imagery is systematically listed and transferred on to the corresponding SOI topographical maps for ground verification. In addition to these, traverse routes were

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planned with reference to SOI topographical maps to verify interpreted LU/LC classes in such a manner that all the different classes are covered by at least 5 sampling areas, evenly distributed in the area. Ground truth details involving LU/LC classes and other ancillary information about crop growth stage, exposed soils, landform, nature and type of land degradation are recorded and the different land use classes are taken the Land use map is presented in Annexure

3.2.7 Description of the Land Use / land cover classes

3.2.7.1 Water

Areas where water was predominantly present throughout the year; may not cover areas with sporadic or ephemeral water; contains little to no sparse vegetation, no rock outcrop nor built up features like docks; examples: rivers, ponds, lakes, oceans, flooded salt plains.

3.2.7.2 Trees

Any significant clustering of tall (~15-m or higher) dense vegetation, typically with a closed or dense canopy; examples: wooded vegetation, clusters of dense tall vegetation within savannas, plantations, swamp or mangroves (dense/tall vegetation with ephemeral water or canopy too thick to detect water underneath).

3.2.7.3 Grass

Open areas covered in homogenous grasses with little to no taller vegetation; wild cereals and grasses with no obvious human plotting (i.e., not a plotted field); examples: natural meadows and fields with sparse to no tree cover, open savanna with few to no trees, parks/golf courses/lawns, pastures.

3.2.7.4 Flooded vegetation

Mix of small clusters of plants or single plants dispersed on a landscape that shows exposed soil or rock; scrub-filled clearings within dense forests that are clearly not taller than trees; examples: moderate to

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sparse cover of bushes, shrubs and tufts of grass, savannas with very sparse grasses, trees or other plants.

3.2.7.5 Crops

Human planted/plotted cereals, grasses, and crops not at tree height; examples: corn, wheat, soy, fallow plots of structured land.

3.2.7.6 Scrub/Shrub

Mix of small clusters of plants or single plants dispersed on a landscape that shows exposed soil or rock; scrub-filled clearings within dense forests that are clearly not taller than trees; examples: moderate to sparse cover of bushes, shrubs and tufts of grass, savannas with very sparse grasses, trees or other plants

3.2.7.7 Built Area

Human made structures; major road and rail networks; large homogenous impervious surfaces including parking structures, office buildings and residential housing; examples: houses, dense villages / towns / cities, paved roads, asphalt.

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	



Figure 3.3 Land use classes around 10 km radius from the project site

3.2.7.8 Different Land use classes around 10 km radius from the project site

Table 3-3 Land use pattern

Sl.No	Categories	Area in Sq.m
1	Water Body	0.18
2	Trees	0.29
3	Grass	0.12
4	Flooded vegetation	0.005
5	Crops	185.59
6	Scrub/Shrub	103.17
7	Built-up Area	25.3
8	Barren Land	0.13

Duration	Bouch store Oursen A240 Ho to Thim & Maringday	Duel EIA Devent
Project	Kough stone Quarry- 4.24.0 Ha by Intru.S.Marimuthu	Drajt EIA Keport
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3.3 WATER ENVIRONMENT

3.3.1 Contour & Drainage

The project site is 86 m AMSL.

3.3.2 Geomorphology

Virudhunagar district is bordered by Western Ghats (Ridge and valley complex) in the West. Vally fill area is observed in Watrap block. A major part of the district constitutes a plain terrain with a gentle slope toward East and Southeast, except for the hilly terrain in the west. The prominent geomorphic units identified in the district through interpretation of Satellite imagery are; 1. Flood Plain, 2. Bazada, 3. Pediment, 4. Shallow & deep buried Pediments and 6. Structural Hills.

Soils

Soils in the area have been classified into i) Deep red Loam ii) Black soil iii) Red sandy soil. The majority of the study area is covered by Black soil. Ferruginous red soils are also seen at places. Black soils are deep to very deep and generally occurs in the depressions adjacent to hilly areas, in the western and central part of district. Alluvial soils occur along the river courses. Red sandy soil is seen all around the Sattur, Kariyapatti, Aruppukotai and Thiruchuli blocks.

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Figure 3.4 Geomorphology within 10km from the project site

3.3.3 Geology:

Virudhunagar district is bordered by Western Ghats (Ridge and valley complex) in the West. Valley fill area is observed in Watrap block. A major part of the district constitutes a plain terrain with a gentle slope toward East and Southeast, except for the hilly terrain in the west. The prominent geomorphic units identified in the district through interpretation of Satellite imagery are; 1. Flood Plain, 2. Bazada, 3. Pediment, 4. Shallow & deep buried Pediments and 6. Structural Hills.

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Figure 3.5 Geology within 10km from the project site

3.3.4 Hydrogeology

The district is underlain by both porous and fissured formations (Plate-II). Unconsolidated & Semiconsolidated formations and Weathered, Fissured and Fractured crystalline rocks constitute the important aquifer systems in the district.

The porous formations in the district include sandstones and clays of Recent to subrecent and Tertiary age (Quaternary). The alluvial formations comprising mainly sands, clays and gravels are confined to major drainage courses in the district. The maximum thickness of alluvium is 35.0 m. whereas the average thickness is about 25.0 m. Ground water occurs under phreatic to semi-confined conditions in these formations and is being developed by means of dug wells and filter points. Alluvium,

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which forms a good aquifer system along the Vaippar and Gundar river bed, which is one of the major sources of water supply to the villages.

The water-bearing properties of crystalline formations, which lack primary porosity, depend on the extent of development of secondary intergranular porosity. The occurrence and movement of ground water in these rocks are generally confined to such spaces. These aquifers are highly heterogeneous in nature due to variation in lithology, texture and structural features even within short distances.

Ground water generally occurs under phreatic conditions in the weathered mantle and under semiconfined conditions in the fissured and fractured zones at deeper levels. The thickness of weathered zone in the district is in the range of 4 to 15 m. The depth of dug wells ranged from 10 to 15 m bgl. The yield of large diameter wells in the district, tapping the weathered mantle of crystalline rocks ranges from 40 to 110 lpm and are able to sustain pumping for 2 to 6 hours per day. The Specific capacity of large diameter wells tested in crystalline rocks ranges from 6.26 to 183.8 lpm / m. of drawdown. The yield characteristics of wells vary considerably depending on the topographic set-up, lithology and nature of weathering.

The yield of bore wells drilled down to a depth of 40 to 70 m, by various state agencies mainly for domestic purposes ranged from 10 to 250 lpm. The yield of successful bore wells ranged up to 6 lps for the drawdown varying between 5.76 and 17.56 m and drilled down to a depth of 200 m bgl during the ground water exploration programme of Central Ground Water Board.

The depth to water level in the district varied between 0.67 and 12.12 m bgl during pre-monsoon (May 2006) and varied between 0.49 and 8.78 m bgl during post monsoon (Jan 2007). The seasonal fluctuation shows a rise in water level which ranges from 0.35 to 2.8 m. The piezometric head varied between 3.49 and 16.23 m bgl during pre-monsoon (May 2006) and 1.29 and 8.06 m bgl during post monsoon (Jan 2007).

Aquifer Parameters:

Formation	Transmissivity(m ² /day)	Storativity	Specific Yield(%)
Weathered Crystallines	-	-	<2

Project Prononent Thiru S Marimuthu	J
1 roject 1 roponent 1 minutentarinanta	
Project Location Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	

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$3.41 \times 10^{-10} / .0 \times 10^{-1}$	
	J.41A10 10 /.0A10



Figure 3.6 Ground water prospects within 5 km radius of the project site

3.3.5 Ground water quality monitoring

Ground water quality monitoring is done in the following locations and analysis will be done for physical, chemical & Biological parameters.

Environmental Parameters: Ground water Quality Analysis	
Monitoring Period June to August 2022	
Design Criteria Based on the Environmental settings in the study area	
Monitoring Locations Project Site -GW 1	
Sivanthi patti -GW2	
Bommayapuram, Primary school - GW 3	
Sennai kuui- GW 4	

Table 3-4 Ground water Quality Analysis

-

Project	Rough stone Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA Report
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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	

	Mannar kottai primary school - GW 5
Methodology	Water Samples were collected in 5 Litre fresh cans as per IS
	3025 Part I and transported to the laboratory in Iceboxes
Frequency of Monitoring	Once in a season

3.3.5.1 Sampling Procedure

Quality of ground water was compared with IS: 10500: 1991 (Reaffirmed 1993 With Amendment NO -3 July 2010) for drinking purposes. Water samples were collected as Grab sample from five sampling locations in a 5-liter plastic jerry can and 250 ml sterilized clean glass/pet bottle for complete physico-chemical and bacteriological tests respectively. The samples were analyzed as per standard procedure / method given in IS: 3025 (Revised Part) and standard method for examination of water and wastewater Ed. 21st, published jointly by APHA.

S. No	Parameters	Test Method
1	pH (at 25°C)	IS:3025(P -11)1983 RA: 2012
2	Electrical Conductivity	IS:3025(P -14) 2013
3	Colour	IS:3025 (P -4)1983 RA: 2012
4	Turbidity	IS:3025(P -10)1984 RA: 2012
5	Total Dissolved Solids	APHA 22 nd Edn.2012-2540-C
6	Total Suspended Solids	IS:3025(P-17)-1984 RA:2012
7	Total Hardness as CaCO ₃	APHA 22 nd Edn.2012-2340-C
8	Calcium as Ca	APHA 22 nd Edn2012.3500 Ca-B
9	Magnesium as Mg	APHA 22 nd Edn.2012-3500 Mg-B
10	Chloride as Cl	IS:3025(P -32)-1988 RA: 2014
11	Sulphate as SO ₄	APHA 22 nd Edn.2012-4500 SO ₄ -E
12	Total Alkalinity as CaCO ₃	APHA 22 nd Edn.2012-2320-B
13	Iron as Fe	IS:3025(P -53):2003 RA: 2014
14	Silica as SiO ₂	IS:3025(P -35)1988 RA: 2014
15	Fluoride as F	APHA 22 nd Edn.2012-4500-F-D
16	Nitrate as NO ₃	IS:3025(P -34):1988 RA: 2014
17	Sodium as Na	IS:3025(P -45):1993 RA: 2014
18	Potassium as K	IS:3025(P -45):1993 RA: 2014
19	Coliform	IS:1622:1981:RA:2014

Table 3-5: Standard Procedure

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20 E.coli

IS:1622:1981:RA:2014

Table 3-6 Ground water sampling results

S. No	Parameters	Units	Project Site – GW 1	Sivanthi patti GW 2	Bommayap uram, primary school GW 3	Sennal kudi GW 4	Mannar kottai primary school GW 5	
1	pH (at 25°C)	-	7.72	8.16	7.92	7.56	7.84	
2	Electrical Conductivity	µS/cm	927	1891	755	3030	1242	
3	Colour	Hazen Unit	1	3	2	2	1	
4	Turbidity	NTU	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ: 1)	BQL(LOQ:1)	BQL(LOQ:1)	
5	Total Dissolved Solids	mg/L	575	1040	432	2112	683	
6	Total Suspended Solids	mg/L	BQL(LOQ:2)	BQL(LOQ:2)	BQL(LOQ: 2)	BQL(LOQ:2)	BQL(LOQ:2	
7	Total Hardness as CaCO3	mg/L	449	469	93.8	898	351	
8	Calcium as Ca	mg/L	124	57.2	12.3	184	68.7	
9	Magnesium as Mg	mg/L	33.7	79.4	10.4	107	43.7	
10	Chloride as Cl	mg/L	89.8	194	93.8	476	145	
11	Sulphate as SO4	mg/L	129	269	80.5	636	75.3	
12	Total Alkalinity as CaCO3	mg/L	152	440	324	402	318	
13	Iron as Fe	mg/L	BQL(LOQ:0. 1)	BQL(LOQ:0. 1)	BQL(LOQ: 0.1)	BQL(LOQ:0. 1)	BQL(LOQ:0 .1)	
14	Silica as SiO ₂	mg/L	21.6	42.6	18.5	53.5	17.7	
15	Potassium as K	mg/L	11.9	12.4	3.2	156	15.9	
16	Sodium as Na	mg/L	75.3	112	19.4	260	127	

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3.3.6 Interpretation of results:

3.3.6.1 Physical parameters of water:

The basic physical parameters of water include

Colour:

Value observed in Project Site (True/Apparent Color): 1 Hazen unit.

Acceptable and permissible limits: 5 Hazen units and 15 Hazen units respectively. The value in the project site is as same as the acceptable limits prescribed by IS 10500: 2012 (referred as "*Standards*" from herein).

pH:

Value observed in the Project Site: 7.72

Acceptable and permissible limits: 6.5-8.5. The pH value is the measure of acid – base equilibrium. The value of pH in the project site clearly indicates that water is slightly neutral in nature.

Turbidity:

Value observed in the Project Site: <1

Acceptable and permissible limits: 1 NTU & 5 NTU respectively. The value of turbidity generally indicates the presence of phytoplanktons and other sediments. The value in the project site indicates the water is slightly turbid.

Total Dissolved Solids:

Value observed in the Project Site: 575 mg/L.

Acceptable and permissible limits: 500 mg/L and 2000 mg/L respectively.

The TDS is the presence of the inorganic salts and small amounts of organic matter present in the water. This is mainly due to the result of surface runoff as the cations and anions in the top soil is carried away by the water. The value in the project site indicates the water is less turbid.

3.3.6.2 Chemical parameters of water:

The chemical parameters of the drinking water include,

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Calcium:

Value observed in the Project Site: 124 mg/L.

Acceptable and permissible limits: 75mg/L and 200 mg/L respectively.

Calcium is the essential macronutrient. The value of the calcium is within the prescribed permissible standards. The higher level of calcium may cause hardening in domestic equipment and will also reduce the detergent efficiency. Higher levels of calcium will lead to constipation, gas, and bloating. Apart from that, extra calcium may also increase the risk of kidney stones. If the calcium deposit in blood is high, it may lead to hypercalcemia.

Magnesium:

Value observed in the Project Site: 33.7 mg/L.

Acceptable and permissible limits: 30 mg/L and 100 mg/L respectively.

The value of Magnesium in the project site is higher than acceptable limit and less than the permissible limit. The increase in the level of magnesium will cause diarrhea and vomiting in children.

Chloride

Value observed in the project site: 89.8 mg/L.

Acceptable and permissible limits: 250 mg/L and 1000 mg/L respectively.

The chloride level in the project site is within the acceptable and permissible limit. If the level of chloride is more, it may cause galvanic and pitting corrosion, increases level of metals. It imparts bitter taste to the water.

Total Alkalinity as CaCO₃:

Value observed in the project site: 152 mg/L.

Acceptable and permissible limits: 200 mg/L and 600 mg/L respectively.

Total Alkalinity is the measure of the concentration of all alkaline substances dissolved in the water which includes carbonates, bicarbonates and hydroxides. The value of the total alkalinity is slightly greater in the project site, which will impart soda taste to the water.

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Hardness:

Value observed in the Project Site: 449 mg/L.

Acceptable and permissible limits:200 mg/L and 600 mg/L respectively.

The value of Hardness in the project site is higher than acceptable limit but within the permissible limit. The increase in the level of hardness may cause corrosion and scaling problems, increased soap consumption and it also contributes to the salty taste of water.

3.3.7 Surface Water Analysis

Surface water samples were taken from Arjunan river. The results are summarized below.

S.	Parameters	Units	Arjunan river
No			
1	pH (at 25°C)	-	8.02
2	Electrical Conductivity	µS/cm	885
3	Colour	Hazen Unit	YELLOWISH
4	Turbidity	NTU	15.4
5	Total Dissolved Solids	mg/L	508
6	Total Suspended Solids	mg/L	22.9
7	Total Hardness as CaCO ₃	mg/L	149
8	Calcium as Ca	mg/L	26.2
9	Magnesium as Mg	mg/L	20.3
10	Chloride as Cl	mg/L	135
11	Sulphate as SO ₄	mg/L	68.8
12	Total Alkalinity as CaCO ₃	mg/L	185
13	Iron as Fe	mg/L	3.7
14	Silica as SiO ₂	mg/L	22.5
15	Potassium as K	mg/L	12.3
16	Sodium as Na	mg/L	112
17	BOD	mg/L	26.7
18	COD	mg/L	94.2
19	DO	mg/L	3.5

Table 3-7 Surface Water Sample Results

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Inference: The surface water quality is compared with the CPCB Water Quality Criteria against A, B, C, D & E class of water. From the test result, it is found that the both the water does not fit Class A (Drinking Water Source without conventional treatment but after disinfection). But they can be used for outdoor bathing as it meets the requirements shown for class B water.

3.3.7.1 Climatology & Meteorology:

Climate and meteorology of a place can play an important role in the implementation of any developmental project. Meteorology is also the key to understand local air quality as there is an essential relationship between meteorology and atmospheric dispersion involving wind in the broadest sense of the term.

The year may broadly be divided into four seasons:

Winter season	:	December to February
Pre-monsoon season	:	March to May
Monsoon season	:	June to September
Post-monsoon season	:	October to November

i) Climate

Eastern part of the district experiences hot climate and Western part has a contrasting pleasant cold climate. The district is hot and dry in summer i.e., from March to June. From July to November is rainy season and between December to February winter prevails with very cold and misty.

ii) Temperature

The maximum temperature is around 36°C and minimum temperature is 28°C.

iii) Rainfall

Krishnagiri receives rainfall from both the northeast and the southwest monsoons. Monsoon season is from the months of July to November. During this time, temperature is mild and pleasant. Heavy rainfall is expected in short intervals during this period. December to February are winter months. This district gets maximum rainfall in November (274.7mm).

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	

VIRUDHUNAGAR DISTRICT -NORMAL AND ACTUAL RAINFALL

Unit in mm.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F
2016	3	0.0	1.7	3.1	77.6	6.9	60.0	24.0	25.7	72.5	42.9	57.9
2017	23.2	6.2	38.1	14.2	92.4	10.0	24.1	122.5	137.0	125.7	67.6	139.0
2018	0.1	28.4	26.3	62.7	149.0	8.0	52.5	58.5	108.4	182.7	75.2	7.5
2019	8.1	3.5	6.8	0.5	6.0	29.3	12.8	89.7	178.7	203.5	111.9	62.8
2020	7.7	0.0	0.0	32.6	80.4	24.0	78.8	47.9	79.4	127.6	284.0	97.9

Source: District survey report

Meterological Data

The meteorological data – Temperature, rainfall, Wind Speed, Wind direction are recorded through AWS by setting it up in the site.

vi) Wind Rose Diagram

The wind rose denotes a class of diagrams designed to display the distribution of wind direction at a given location over a period of time. Wind roses are also useful as they project a large quantity of data in a simple graphical plot.

The wind speed & wind direction data are taken and wind rose is plotted for June to August 2022.

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Figure 3.7 Wind rose

3.3.8 Selection of Sampling Locations:

Four Monitoring locations along with the project site is selected based on Wind Direction & Wind Speed. All the monitoring locations are chosen in the downwind direction.

3.4 AMBIENT AIR QUALITY

Table 3-8: Selection of Sampling Location

Environmental Parameters: Ambient Air						
Monitoring Period	June 2022 to August 2022					

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Design Criteria	The monitoring stations are selected based on factors like topography/terrain, prevailing meteorological conditions like predominant wind direction (June to August 2022), etc, play a vital role in the selection of air sampling stations. Based on these criteria, 5 air sampling station were selected in the area as shown below.									
Monitoring Locations	Location & Code	Distance	Direction							
		(km)								
	Project Site									
	Sivanthi patti	1.79Km	Upwind W							
	Bommayapuram Primary school	3.83 Km	Downwind E							
	Sennal kudi	7.67 Km	Crosswind N							
	Mannar kottai primary school	Crosswind S								
Methodology	Respirable Particulate Matter (PM10) - Gravimetric (IS 5182: Part 23:2006) Particulate Matter PM2.5 - Gravimetric (Fine particulate matter) Sulphur Dioxide - Calorimetric (West & Gaeke Method) (IS 5182: Part 02: 2001) Nitrogen Dioxide - Calorimetric (Modified Jacob & Hocheiser Method) (IS 5182: Part 06:2006)									
Frequency of Monitoring	2 days in a week, 4 weeks in a mont	h for 3 months	s in a season.							

3.4.1 Ambient Air Quality: Results & Discussion

The test results of the ambient air quality monitored in project site and other four locations is summarized below.

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	

Table 3-9 Ambient Air Quality

e	υ		PM 2	10 (µg/	/m³)		PM 2	.5 (μg	/m³)		SO	2 (µg/	′m³)		NOx	(µg/1	m ³)
Cod	Location	Min	Max	Avg	98 percentile	Min	Max	Avg	98 percentile	Min	Max	Avg	98 percentile	Min	Max	Avg	98 percentile
AAQ 1	Project Site	41	55	47	54	17	24	21	24	5	8	6	8	9	18	13	18
AAQ 2	Sivanthipatti	44	57	51	56	18	26	23	26	5	12	8	11	13	26	18	24
AAQ 3	Bommayapuram, primary school	51	61	55	60	21	30	25	29	7	13	9	12	16	27	19	26
AAQ 4	Sennal kudi	47	57	53	57	20	27	24	27	5	10	8	10	12	22	17	22
AAQ 5	Mannar kottai,	51	61	56	60	23	30	26	29	6	12	9	12	12	27	20	26
	Primary school																
NAAQ Standards - Residential		$100 (\mu g/m^3)$			60(µg/m ³)		80 ($\mu g/m^{3}$)			80 (μg/m ³)							
Area																	

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Project Location	Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District	

3.4.2 Interpretation of ambient air quality:

To assess the impact, AAQ were monitored in project site and four locations.

Observation:

The Maximum value of PM10 ($61(\mu g/m^3)$, PM 2.5 (30 ($\mu g/m^3$), SOx ($13(\mu g/m^3)$, NOx ($27(\mu g/m^3)$ is observed in different places.

Inference:

The monitoring results for PM10, PM2.5, Sox, NOx was found to be high in Bommayapuram Primary school which is due to the movement of vehicles .

The observed values are all well within the Standards prescribed by NAAQ.





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Figure 3.9 Concentration of PM2.5 (µg/m³) in Study Area



Figure 3.10 Concentration of SOx (µg/m³) in Study Area

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Figure 3.11 Concentration of NOx (µg/m3) in Study Area

3.5 NOISE ENVIRONMENT:

Table 3-10 Noise Analysis

Environmental Parameters: Noise Analysis					
Monitoring Period	June to August 2022				
Design Criteria	Based on the Sensitivity of the area				
Monitoring Locations	Project Site – N 1 Sivanthi patti, N 2				
	Bommayapuram Primary School- N3 Sennal kudi-N 4				
	Mannar kottai primary school- N5				
Methodology	Noise level measurements were taken at the selected locations using noise level meter both during day and night time. Noise level measurements were taken continuously for 24 hours at hourly intervals				
Frequency of	Noise samples were collected from 5 locations - Once in a season				
Monitoring					

Ambient Noise Levels are monitored in the chosen 5 Locations including the project Site and the monitoring results are summarized below

Project	Kough stone Quarry- 4.24.0 Ha by Intru.S.Marimuthu	Draft EIA Keport
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3.5.1 Day Noise Level (Leq day)

Table 3-11 Day Noise Level (Leq day)

Location	Leq	Leq day in dB(A)						
	Max	Max Min						
Project Site	54	40	49					
Sivanthi patti	56	45	52					
Bommayapuram Primary School	60	49	55					
Sennal kudi	54	44	50					
Mannar kottai primary school	57	48	53					

3.5.2 Night Noise Level (Leq Night)

Table 3-12 Night Noise Level (Leq Night)

	Leq Night in dB(A)			
Location	Max	Min	Average	
Project Site	40	32	36	
Sivanthi patti	45	37	40	
Bommayapuram Primary School	49	38	43	
Sennal kudi	44	34	38	
Mannar kottai primary school	48	38	42	

Observation:

The maximum Day noise and Night noise were found to be 60 dB(A) and 49 dB(A) respectively in Bommayapuram Primary School. The minimum Day Noise and Night noise were 40 dB (A) and 32 dB(A) respectively which was observed in Project site. The observed values are all well within the Standards prescribed by CPCB.

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3.6 SOIL ENVIRONMENT

Soil environment is studied for 10 km radius from the project site. The 5 km radius image shows that the soil is not affected by any kind of erosion.



Figure 3.12 Soil Erosion pattern within 5 km radius of the project site

3.6.1 Baseline Data:

The present study of the soil quality establishes the baseline characteristics which will help in future in identifying the incremental concentrations if any, due to the operation Phase of the proposed project. The sampling locations have been identified with the following objectives:

• To determine the impact of proposed project on soil characteristics and

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• To determine the impact on soils more importantly from agricultural productivity point of view.

Table 3-13 Soil Quality Analysis

Environmental Parameters	: Soil Quality Analysis
Monitoring Period	June to August 2022
Design Criteria	Based on the environmental settings of the study area
Monitoring Locations	Project Site – SQ 1
	Sivanthi patti-SQ 2
	Bommayapuram–SQ 3
	Sennal kudi- SQ 4
	Mannar kottai primary school- SQ 5
Methodology	Composite soil samples using sampling augers and field capacity
	apparatus
Frequency of Monitoring	Soil samples were collected from 5 locations Once in a season

To assess the soil quality of the study area, 5 monitoring stations were selected and the results are summarized below.

Table 3-14 Soil Quality Analysis

Parameters	Unit	Project Site SQ 1	Sivanthi patti SQ 2	Bommayap uram SQ 3	Sennal kudi SQ 4	Mannar kottai primary school SQ5
pH (at 25°C)	-	7.06	6.99	7.69	7.34	7.25
Specific Electrical Conductivity	mS/cm	0.18	0.08	0.30	0.40	0.12

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Water Holding Capacity	m1/1	1.63	1.90	1.80	2.40	1.52
Chloride	g/cm ³	171	152	198	232	159
Soluble Calcium	mg/kg	98.0	66.8	42.6	44.1	92.5
Soluble Sodium	mg/kg	77.5	28.3	56.5	77.2	160
Soluble	mg/kg					
Potassium	iiig/ kg	63.9	22.0	24.5	64.0	120
Organic matter	%	0.21	0.29	0.45	0.21	0.31
Soluble	mg/kg					
Magnesium	iiig/ kg	106	120	90	106	167
Total Soluble	0/0					
Sulphates	70	98.1	83.2	76.4	92.5	95.8
Cation						
Exchange	mg/kg					
Capacity		11.5	16.1	21.6	14.5	17.4
Total Nitrogen	%	0.16	0.01	0.30	0.06	0.03
Bulk Density	meq/100g	1.32	1.28	1.29	1.24	1.77
Phosphorous	meq/kg	134	129	186	171	145
Sand	%	47.5	48.2	53.4	49.0	44.2
Clay	mg/kg	4.8	30.2	30.3	21.0	36.1
Silt	mg/kg	47.8	21.6	16.0	30.0	19.7
SAR	mg/kg	5.9	5.8	13.9	17.8	11.5
Silicon	%	0.56	0.69	0.76	0.82	0.86

3.6.1.1 Physical Properties:

Regular cultivation practices increase the bulk density of soils thus inducing compaction. This results in reduction in water percolation rate and penetration of roots through soils. The soils with low bulk density have favorable physical conditions whereas those with high bulk density exhibit poor physical conditions for agriculture crops. The bulk density of the soil in the study area ranged between

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1.24 to 1.77 meq/100g which indicates favorable physical condition for plant growth. The water holding capacity was found in the range of 1.52 ml/l to 2.50 ml/l.

3.6.1.2 Chemical Properties:

Chemical characteristics of soils include pH, exchangeable cations and fertility status in the form of NPK values and organic matter. The value of the pH ranges from 6.99 to 7.69, which it indicates majority of pH of the soil is slightly alkaline. The soil in the project site is sodic in nature, which challenges because they tend to have very poor structure which limits or prevents water infiltration and drainage. The organic matter varies from 0.21 to 0.45 %, which indicates the soil is slightly unfertile.

3.7 ECOLOGY AND BIODIVERSITY

Ecology and Biodiversity is studied for 10 km radius around the project site. Project site and 2 km around the project site is considered as core zone and from 2 km to 10 km radius, it is considered as buffer zone.

- Primary field survey is carried out for the assessment of flora and fauna in the core zone
- Secondary data from Journals/Literature were studied and compiled to understand the species present in the buffer zone

3.7.1 Methods available for floral analysis:

3.7.1.1 Plot Sampling Methods

- > Quadrat 2D shape (e.g. square or rectangle, or other shape) used as a sampling unit
- ➢ Transect
 - Line transects feature only a length dimension, usually defined by a tape stretched across the area to be sampled.
 - Belt transects have a width as well as length.
 - Pace-transects are established when the observer strides along an imaginary line across the sample site and uses their foot placement to determine specific sampling points.

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3.7.1.2 Plot less Sampling Methods

- Closest individual method Distance is measured from each random point to the nearest individual.
- > Nearest neighbour method Distance is measured from an individual to its nearest neighbour.
- Random pairs method Distance is measured from one individual to another on the opposite side of the sample point.
- Point-centered quarter (PCQ) method Distance is measured from the sampling point to the nearest individual in each quadrat.

3.7.2 Field study & Methodology adopted:

To assess the suitability of the methodology, random field survey was done. Field survey was conducted around 2 km radius from the project site and five locations were chosen based on the species density. Quadrat method is chosen for the proposed study as compared to other sampling methods, because they are relatively simple to use. Quadrat plots are uniform in size and shape and distributed randomly throughout the sample area, which makes the study design straightforward. They are also one of the most affordable techniques because they require very few materials.

3.7.3 Study outcome:

Phyto-sociological parameters, such as *Density, Frequency, Basal Area, Abundance and Importance Value Index* of individual species (Trees) were determined in randomly placed quadrate of different sizes in the study area. Relative frequency, relative basal area and relative density were calculated and the sum of these three represented Importance Value Index (IVI) for various species. For shrubs, herbs and grasses, *Density, Frequency, Relative Density & Relative Frequency were found*.

Sample plots were selected in such a way to get maximum representation of different types of vegetation and plots were laid out in different part of the study area of 2 km radius. Analysis of the vegetation will help in determining the relative importance of each species in the study area and to reveal if any economically valuable species is threatened in the process.

<u>Table 3-15 Calculation of Density, Frequency (%), Dominance, Relative Density, Relative</u> Frequency, Relative Dominance & Important Value Index

Parameters	Formula
Density	Total No. of individuals of species/ Total No. of Quadrats used in sampling

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Frequency (%)	(Total No. of Quadrats in which species occur/ Total No. of Quadrats studied) * 100
Dominance	Total Basal Area /Total area sampled
Abundance	Total No. of individuals of species/ No. of Quadrats in which they occur
Relative Density	(Total No. of individuals of species/Sum of all individuals of all species) * 100
Relative Frequency	(Total No. of Quadrats in which species occur/ Total No. of Quadrats occupied by all species) * 100
Relative Dominance	Dominance of a given species/Total Dominance of all species
Important Value Index	Relative Density + Relative Frequency + Relative Dominance

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Table 3-16 Tree Species in the core Zone

S. No.	Scientific Name	Local Name	Total No. of species	Total of Quadrants with species	Total No. of Quadrants	Density	Frequency (%)	Abundance	Dominance	Relative Density	Relative Frequency	Relative Dominance	IVI	IUCN Conservation Status
1	Ficus Carica	Athi Maram	2	2	6	0.33	33.33	1	0.28	1.68	2.17	4.45	8.31	Least Concern
2	Cocos nucifera	Thennai	10	6	6	1.67	100.0	1.67	0.15	8.40	6.52	2.39	17.32	Not assessed
3	Azadirachta indica	Veppam	17	6	6	2.83	100.0	2.83	0.13	14.2 9	6.52	1.98	22.79	Not assessed
4	Tamarindus indica	Puli	10	6	6	1.67	100.0	1.66	0.20	8.40	6.52	3.09	18.02	Not assessed
5	Mangifera indica	Mamaram	7	6	6	1.17	100.0	1.16	0.07	5.88	6.52	1.11	13.52	Data insufficient
6	Morinda pubescens	Nuna	6	6	6	1.00	100.0	1	0.24	5.04	6.52	3.74	15.31	Not assessed
7	Couroupita guianensis	Nagalingam	5	3	6	0.83	50.00	1.67	0.14	4.20	3.26	2.18	9.64	Not assessed
8	Bombax ceiba	Sittan	4	4	6	0.67	66.67	1	0.08	3.36	4.35	1.27	8.98	Not assessed
9	Acacia nilotica	Karuvelai	4	4	6	0.67	66.67	1	0.28	3.36	4.35	4.45	12.16	Least Concern
10	Bambusa vulgaris	Moongil	4	4	6	0.67	66.67	1	0.50	3.36	4.35	7.92	15.63	Not assessed
11	Syzygium cumini	naval	5	1	6	0.83	16.67	5	0.11	4.20	1.09	1.79	7.07	Not
12	Carica papaya	Рарауа	3	3	6	0.50	50.00	1	0.09	2.52	3.26	1.43	7.21	Not
13	Psidium guajava	Guava	3	3	6	0.50	50.00	1	0.23	2.52	3.26	3.61	9.39	Not assessed
14	Cassia siamea	ManjalKonrai	3	2	6	0.50	33.33	1.5	0.07	2.52	2.17	1.11	5.81	Least
15	Ficus religiosa	Arasa maram	3	3	6	0.50	50.00	1	0.09	2.52	3.26	1.35	7.13	Not assessed
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16	Musa paradise	Vaazhai	3	3	6	0.50	50.00	1	0.08	2.52	3.26	1.19	6.97	Not
	-													assessed
17	Prosopis juliflora	Vaelikaruvai	3	3	6	0.50	50.00	1	0.21	2.52	3.26	3.34	9.13	Not
														assessed
18	Tectona grandis	Thekku	3	3	6	0.50	50.00	1	0.12	2.52	3.26	1.88	7.66	Not
														assessed
19	Thespesia populnea	Poovarasam	3	3	6	0.50	50.00	1	0.15	2.52	3.26	2.39	8.18	Not
														assessed
20	Causuarina equisetifolia	Savukku	2	2	6	0.33	33.33	1	0.21	1.68	2.17	3.34	7.20	Not
	1													assessed
21	Alstonia scholaris	Elilaipalai	2	2	6	0.33	33.33	1	0.27	1.68	2.17	4.31	8.16	Least
		1												Concern
22	Anacardium	Cashew	1	1	6	0.17	16.67	1	0.44	0.84	1.09	6.96	8.88	Not
	occidentale													assessed
23	Artocarpus	Palaa	2	2	6	0.33	33 33	1	0.18	1.68	2 1 7	2.85	6 70	Not
25	h at a se se la sella s	1 alaa	2	2	0	0.55	55.55	1	0.10	1.00	2.17	2.05	0.70	assessed
	neterophyllus													
24	Aegle marmelos	Vilvam	1	1	6	0.17	16.67	1	0.16	0.84	1.09	2.50	4.43	Not
														assessed
25	Delonix elata	Perungondrai	1	1	6	0.17	16.67	1	0.17	0.84	1.09	2.62	4.54	Least
														Concern
26	Pithecellobium dulce	Kodukapuli	1	1	6	0.17	16.67	1	0.14	0.84	1.09	2.18	4.11	Not
														assessed
27	Citrus medica	Elumichai	2	2	6	0.33	33.33	1	0.23	1.68	2.17	3.61	7.46	Not
														assessed
		Total	110	83					5.02					

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Table 3-17 Shrubs in the Core Zone

S.	Scientific Name	Local Name	F .				(0)				u
No.			Total No. of species	Total of Quadrants with species	Total No. of Quadrants	Density	Frequency (%	Abundance	Relative Density	Relative Frequency	IUCN Conservatio Status
1	Jatropagossypifolia	Kaatamanaku	32	17	24	1.17	0.71	1.65	14.43	17.17	Not Assessed
2	Calotropis gigantea	Erukam	16	12	24	0.58	0.50	1.17	7.22	12.12	Not Assessed
3	Tabernaemontanadivaricata	Crepe Jasmine	4	3	24	0.13	0.13	1	1.55	3.03	Not Assessed
4	Catharanthus roseus	Nithyakalyani	4	3	24	0.13	0.13	1	1.55	3.03	Not Assessed
5	Datura metal	Ummattangani	7	4	24	0.21	0.17	1.25	2.58	4.04	Not Assessed
6	Robiniapseudoacacia	Black locust	15	5	24	0.71	0.21	3.4	8.76	5.05	Least Concern
7	Acalypha indica	Kuppaimeni	18	8	24	0.83	0.33	2.5	10.31	8.08	Not Assessed
8	Stachytarpheaurticifolia	Rat tail	13	9	24	0.63	0.38	1.67	7.73	9.09	Not Assessed
9	Woodfordiafruiticosa	Velakkai	4	3	24	0.13	0.13	1	1.55	3.03	Least Concern
10	Hibiscus rosa sinensis	Sembaruthi	3	2	24	0.13	0.08	1.5	1.55	2.02	Not Assessed
11	Lantana camara	Unnichedi	8	6	24	0.38	0.25	1.5	4.64	6.06	Not Assessed
12	Parthenium hysterophorous	Vishapoondu	45	13	24	2.08	0.54	3.85	25.77	13.13	Not Assessed
13	Euphorbia geniculata	Amman Pacharisi	5	3	24	0.13	0.13	1	1.55	3.03	Not Assessed

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Table 3-18 Herbs & Grasses in the core zone

S. No.	Scientific Name	Local Name	otal No. of pecies	otal of Duadrants vith species	'otal No. of Juadrants	Density	requency %)	Abundance	telative Density	telative requency	UCN Conservatio status
1	TT 1' / '	T T 1 '		E O A	L D	H	E E	v			
1	Helicteresisora	Valampuri	4	2	30	0.07	0.07	I	0.79	2.15	Not assessed
2	Tridax procumbens	Vettukaayathalai	7	4	30	0.17	0.13	1.25	1.98	4.30	Not assessed
3	Heraculem spondylium	Hog Weed	19	10	30	0.67	0.33	2	7.94	10.75	Not assessed
4	Tridax procumbens	Cuminipachai	18	4	30	0.50	0.13	3.75	5.95	4.30	Not assessed
5	Senna occidentalis	Nattamsakarai	30	4	30	0.83	0.13	6.25	9.92	4.30	Not assessed
6	Plumbago zeylanica	Chittiramoolam	12	3	30	0.10	0.10	1	1.19	3.23	Not assessed
7	Scrophularia nodosa	Sarakkothini	18	7	30	0.50	0.23	2.14	5.95	7.53	Not assessed
8	Viburnum dentatum	Viburnum	7	5	30	0.17	0.17	1	1.98	5.38	Least concern
9	Cynodondactylon	Arugu	15	6	30	0.40	0.20	2	4.76	6.45	Not assessed
10	Euphorbia hirta	Amman Pacharisi	7	4	30	0.17	0.13	1.25	1.98	4.30	Not assessed
11	Sida cordifolia	Maanikham	50	4	30	1.50	0.13	11.25	17.86	4.30	Not assessed
12	Sida acuta	Malaidangi	12	3	30	0.33	0.10	3.33	3.97	3.23	Not assessed
13	Laportea canadensis	Peruganchori	28	20	30	1.00	0.67	1.5	11.90	21.51	Not assessed
14	Sporobolus fertilis	Giant Parramatta Grass	10	4	30	0.30	0.13	2.25	3.57	4.30	Not assessed
15	Tephrosia purpurea	Kavali	23	4	30	0.67	0.13	5	7.94	4.30	Not assessed

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3.7.4 Calculation of species diversity by Shannon – wiener Index, Evenness and richness by Margalef:

Biodiversity index is a quantitative measure that reflects how many different type of species, there are in a dataset, and simultaneously takes into account how evenly the basic entities (such as individuals) are distributed among those types of species. The value of biodiversity index increases both when the number of types increases and when evenness increases. For a given number of type of species, the value of a biodiversity index is maximized when all type of species are equally abundant. Interpretation of Vegetation results in the study area is given below.

Description	Formula
Species diversity – Shannon –	$H=\Sigma[(p_i)*\ln(p_i)]$
Wiener Index	Where p_{i} : Proportion of total sample represented by
	species
	i:number of individuals of species i/ total number of
	samples
Evenness	H/H _{max}
	$H_{max} = ln(s) = maximum diversity possible$
	S=No. of species
Species Richness by Margalef	$RI = S-1/\ln N$
	Where S = Total Number of species in the community
	N = Total Number of individuals of all species in the
	community

Table 3-19 Calculation of species diversity

3.7.5 Calculation of species diversity by Shannon – wiener Index, Evenness and richness by Margalef for trees

i. Species Diversity

Scientific Name	Common Name	No. of Species	Pi	ln (Pi)	Pi x ln (Pi)
Ficus Carica	Athi Maram	2	0.018182	-4.00733	-0.07286
Cocos nucifera	Thennai	10	0.090909	-2.3979	-0.21799

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Azadirachta indica	Veppam	17	0.154545	-1.86727	-0.28858
Tamarindus indica	Puli	10	0.090909	-2.3979	-0.21799
Mangifera indica	Mamaram	7	0.063636	-2.75457	-0.17529
Morinda pubescens	Nuna	6	0.054545	-2.90872	-0.15866
Couroupita guianensis	Nagalingam	5	0.045455	-3.09104	-0.1405
Bombax ceiba	Sittan	4	0.036364	-3.31419	-0.12052
Acacia nilotica	Karuvelai	4	0.036364	-3.31419	-0.12052
Bambusa vulgaris	Moongil	4	0.036364	-3.31419	-0.12052
Syzygium cumini	naval	5	0.045455	-3.09104	-0.1405
Carica papaya	Papaya	3	0.027273	-3.60187	-0.09823
Psidium guajava	Guava	3	0.027273	-3.60187	-0.09823
Cassia siamea	ManjalKonrai	3	0.027273	-3.60187	-0.09823
Ficus religiosa	Arasa maram	3	0.027273	-3.60187	-0.09823
Musa paradise	Vaazhai	3	0.027273	-3.60187	-0.09823
Prosopis juliflora	Vaelikaruvai	3	0.027273	-3.60187	-0.09823
Tectona grandis	Thekku	3	0.027273	-3.60187	-0.09823
Thespesia populnea	Poovarasam	3	0.027273	-3.60187	-0.09823
Causuarina equisetifolia	Savukku	2	0.018182	-4.00733	-0.07286
Alstonia scholaris	Elilaipalai	2	0.018182	-4.00733	-0.07286
Anacardium occidentale	Cashew	1	0.009091	-4.70048	-0.04273
Artocarpus heterophyllus	Palaa	2	0.018182	-4.00733	-0.07286
Aegle marmelos	Vilvam	1	0.009091	-4.70048	-0.04273
Delonix elata	Perungondrai	1	0.009091	-4.70048	-0.04273
Pithecellobium dulce	Kodukapuli	1	0.009091	-4.70048	-0.04273
Citrus medica	Elumichai	2	0.018182	-4.00733	-0.07286
Total		110			-3.02215005

H (Shannon Diversity Index) =3.02

Shrubs

Scientific Name	Common	No. of	Pi	ln (Pi)	Pi x ln (Pi)
	Name	Species			
Jatropagossypifolia	Kaatamanaku	32	0.183908	-1.69332	-0.31142
Calotropis gigantea	Erukam	16	0.091954	-2.38647	-0.21945
Tabernaemontanadivaricata	Crepe Jasmine	4	0.022989	-3.77276	-0.08673
Catharanthus roseus	Nithyakalyani	4	0.022989	-3.77276	-0.08673
Datura metal	Ummattangani	7	0.04023	-3.21315	-0.12926
Robiniapseudoacacia	Black locust	15	0.086207	-2.45101	-0.21129
Acalypha indica	Kuppaimeni	18	0.103448	-2.26868	-0.23469
Stachytarpheaurticifolia	Rat tail	13	0.074713	-2.59411	-0.19381
Woodfordiafruiticosa	Velakkai	4	0.022989	-3.77276	-0.08673
Hibiscus rosa sinensis	Sembaruthi	3	0.017241	-4.06044	-0.07001

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Lantana camara	Unnichedi	8	0.045977	-3.07961	-0.14159
Parthenium hysterophorous	Vishapoondu	45	0.258621	-1.35239	-0.34976
Euphorbia geniculata	Amman Pacharisi	5	0.028736	-3.54962	-0.102
Total		174			-2.2234

H (Shannon Diversity Index) =2.22

Herbs

Scientific Name	Common Name	No. of Species	Pi	ln (Pi)	Pi x ln (Pi)
Helicteresisora	Valampuri	4	0.015385	-4.17439	-0.06422
Tridax procumbens	Vettukaayathalai	7	0.026923	-3.61477	-0.09732
Heraculem spondylium	Hog Weed	19	0.073077	-2.61624	-0.19119
Tridax procumbens	Cuminipachai	18	0.069231	-2.67031	-0.18487
Senna occidentalis	Nattamsakarai	30	0.115385	-2.15948	-0.24917
Plumbago zeylanica	Chittiramoolam	12	0.046154	-3.07577	-0.14196
Scrophularia nodosa	Sarakkothini	18	0.069231	-2.67031	-0.18487
Viburnum dentatum	Viburnum	7	0.026923	-3.61477	-0.09732
Cynodondactylon	Arugu	15	0.057692	-2.85263	-0.16457
Euphorbia hirta	Amman Pacharisi	7	0.026923	-3.61477	-0.09732
Sida cordifolia	Maanikham	50	0.192308	-1.64866	-0.31705
Sida acuta	Malaidangi	12	0.046154	-3.07577	-0.14196
Laportea canadensis	Peruganchori	28	0.107692	-2.22848	-0.23999
Sporobolus fertilis	Giant Parramatta Grass	10	0.038462	-3.2581	-0.12531
Tephrosia purpurea	Kavali	23	0.088462	-2.42519	-0.21454
Total		260			-2.51

H (Shannon Diversity Index) =2.51

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Details	Η	Hmax	Evenness	Species Richness (Margalef)
Trees	3.02	3.36	0.89	5.95
Shrubs	2.22	2.56	0.86	2.32
Herbs	2.51	2.70	0.92	2.51

i. Species diversity calculation

From the above, it can be interpreted that herb community has higher diversity. While the tree community shows less diversity. It is also observed that most of the quadrates have controlled generation of plant species with older strands. Higher herb species diversity can be interpreted as a greater number of successful species and a more stable ecosystem where more ecological niches are available, environmental change is less likely to be damaging to the ecosystem. Species richness is high for herb community when compared with tree and shrubs.

3.7.6 Floral study in the Buffer Zone:

Economically important Flora of the study area

Agricultural crops: The important crops of this district are Paddy, Maize, Ragi, Banana, Sugarcane, Cotton, Tamarind, Coconut, Mango, Groundnut, Vegetables and Flowers also grown by the local people.

Medicinal species: The nearby area is also endowed with the several medicinal species which are commonly available in the shrub forest and waste lands. The common medicinal species of the region are Asparagus racemosus (satamulli), Azadirachta indica (Neem) etc.

Rare and endangered floral species: There are no rare or endangered or threatened (RET) species of in the study area. During the vegetation survey, there are no any species which are endangered or threatened under IUCN (International Union for Conservation of Nature and Natural resources) guidelines.

3.7.7 Faunal Communities

Both direct and indirect observation methods were used to survey the fauna.

• Point Survey Method: Observations were made in each site for 15 minutes duration.

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Roadside Counts: The observer traveled by motor vehicles from site to site, all sightings were recorded (this was done both in the day and night time). An index of abundance of each species was also established.

Pellet and Track Counts: All possible animal tracks and pellets were identified and recorded (South Wood, 1978).

Additionally, survey of relevant literature was also done to consolidate the list of fauna distributed in the buffer zone.

Based on the Wildlife Protection Act, 1972 (WPA 1972, Anonymous. 1991, Upadhyay 1995, Chaturvedi and Chaturvedi 1996) species were short-listed as Schedule II or I and considered herein as endangered species. Species listed in Ghosh (1994) are considered as Indian Red List species.

Methodology Adopted:

Point Survey method was adopted for this development project where observations were made in each site for 15 minutes duration (10 times).

Study in the core zone:

Point Survey method was adopted for the study within 2 km radius and the following species were observed.

Mammals: No wild mammalian species was directly sighted during the field survey. Discussion with local villagers located around the study area also could not confirm presence of any wild animal in that area. Three stripped Palm Squirrel, Common Indian Hare, Common mongoose, Common Mouse etc were observed during primary survey.

Avifauna: Since birds are considered to be the indicators for monitoring and understanding human impacts on ecological systems (Lawton, 1996) attempt was made to gather quantitative data on the avifauna by walk through survey within the entire study area and surrounding areas. From the primary survey, a total of 26 species of avifauna were identified and recorded in the study area. The diversity of avifauna from this region was found to be quite high and encouraging.

The list of fauna species found in the study area is mentioned in Table below.

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Table 3-20 List of fauna species

Scientific Name	Common Name	Schedule of wild life	IUCN conservation	
		protection act	status	
Mammals	1	I		
Funambulus pennanti	Palm Squirrel	IV	Least Concern	
Mus rattus	Indian rat	IV	Not listed	
Bandicota bengalensis	Indian mole rat	IV	Least Concern	
Funambulus	Three stripped palm	IV	Least Concern	
palmarum	squirrel			
Herestes edwardsii	Common Mangoose	IV	Not listed	
Mus musculus	Common Mouse	IV	Least Concern	
Bandicota indica	Rat	IV	Least Concern	
Lepus nigricollis	Indian Hare	IV	Least Concern	
Felis catus	Cat	Not listed	Not listed	
Canis lupus familiaris	Indian dog	Not listed	Not listed	
Bos Indicus	Indian Cow	Not listed	Not listed	
Bubalus bubalis	Buffalo	Ι	Not listed	
Sus scrofa domesticus	Domestic pig	Not listed	Not listed	
Birds				
Milvus migrans	Black kite	IV	Least concern	
Saxicoloides fulicatus	Indian Robin	IV	Least concern	
Pycnonotus cafer	Red vented Bulbul	IV	Least concern	
Phragamaticola aedon	Thick billed warbler	IV	Least concern	
Pericrocotus	Small Minivet	IV	Least concern	
cinnamomeus				
Eudynamys	Koel	IV	Least concern	
scolopaceus				
Psittacula krameni	Rose ringed parakeet	IV	Least concern	
Dicrurus marcocercus	Black drongo	IV	Least concern	
Columba livia	Rock pigeon	IV	Least concern	
Corvus splendens	House crow	IV	Least concern	

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Alcedo atthis	Small blue kingfisher	IV	Least concern
Cuculus canorus	Common Cukoo IV		Least concern
Reptiles & Amphibians			
Chameleon	Chameleon	IV	Not listed
zeylanicum			
Calotes versicolor	Common garden	II	Not listed
	lizard		
Bungarus caeruleus	Common krait	IV	Not listed
Ophisops leschenaultia	Snake eyed lizard		Not listed
Bufo melanostictus	Toad	IV	Least concern
Ptyas mucosa	Rat snakes	IV	Least concern
Hemidactylus sp.	House lizard		Not listed
Butterflies			
Danaus chrysippus	Plain Tiger		Not listed
Papilio demoleus	Common lime		Not listed
Euploea core	Common crow		Least concern
Danaus genutia	Common tiger		Not listed
Eurema brigitta	Small grass yellow		Least concern

3.8 DEMOGRAPHY AND SOCIO ECONOMICS

The demography survey study is done within 10km radius from the project site.

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Figure 3.13 Socio Economic map surrounding the project site.

The population, Household, Sex ratio, Literacy rate, SC, ST details for all the villages in the study area is listed below:

Table 3-21: Demography Survey Study

Villages	Household	Population	Sex Ratio		Literacy Rate		SC	ST
			Male	Female	Male	Female		
Valayapatti	286	1138	578	560	434	288	8	0
Mannarkottai	380	1332	651	681	522	465	204	0
Sundaralingapuram	97	319	157	162	111	80	88	0
Appayyanayakkanpatti	354	1231	609	622	480	409	117	0
Thiruvirunthalpuram	423	1450	719	731	517	407	109	0

Source: Census of India, 2011

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Kurundamadam	398	1251	598	653	476	390	608	0
Muthulingapuram	583	2042	977	1065	736	604	390	0
Veppilaipatti	148	449	222	227	156	115	174	0
Pappakudi	617	2205	1157	1048	964	723	284	0
Athipatti	72	266	144	122	109	75	258	0

3.9 TRAFFIC IMPACT ASSESSMENT

Traffic data collected continuously for 24 hours by visual observation and counting of vehicles under three categories, viz., heavy motor vehicles, light motor vehicles and two/three wheelers. As traffic densities on the roads are high, two skilled persons were deployed simultaneously at each station during each shift- one person on each of the two directions for counting the traffic. At the end of each hour, fresh counting and recording was undertaken. Total numbers of vehicles per hour under the three categories were determined.

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Figure 3.14: Site Connectivity

	Table 3	3-22:	No.	of \	/ehic	les	per	Day
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S .	Vehicles	Number of Vehicles	Passenger Car	Total Number of Vehicle
No	Distribution	Distribution/Day	Unit (PCU)	in PCU
		MDR-937	-	MDR-937
1	Cars	417	1	417
2	Buses	203	3	609
3	Trucks	159	3	477
4	Two wheelers	507	0.5	254
5	Three wheelers	173	1.5	260
	Total	1459	-	2017

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Table 3-23	: Existing	Traffic	Scenario	and	LOS
------------	------------	---------	----------	-----	-----

Road	V (Volume	C (Capacity in	Existing V/C	LOS
	in	PCU/hr)	Ratio	
	PCU/hr)			
NH844	2017/24=84	221	0.38	В

Note: The existing level may be "Very Good" for MDR=937.

V/C	LOS	Performance
0.0-0.2	А	Excellent
0.2-0.4	В	Very Good
0.4-0.6	С	Good/ Average/ Fair
0.6-0.8	D	Poor
0.8-1.0	Е	Very Poor

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Project Proponent	Thiru V Sekaran	
Project Location	Perumanadu Village, Iluppur Taluk, Pudukkottai District	

4 Anticipated Environmental Impacts & Mitigation Measures

This chapter describes the anticipated impacts on the environment and mitigation measures. The method of assessment of impacts including studies carried out, modeling techniques adopted to assess the impacts where pertinent should be elaborated in this chapter. It should give the details of the impacts on the baseline parameters, both during the construction and operational phases and suggests the mitigation measures to be implemented by the proponent.

4.1 INTRODUCTION

An environmental impact is defined as any change to the environment, whether adverse or beneficial, resulting from a facility's activities, products, or services. The anticipation of the possible & potential Environmental impact due to the proposed project is a key step in EIA. Based on the impacts assessed, appropriate mitigation measures should be adopted to maintain the environment with less or no damage.

Environmental Impacts can be group into Primary impacts & Secondary Impacts

Primary Impacts: These impacts are directly attributed by the project

Secondary Impacts: These are those which are induced by primary impacts and include the associated investments and changed patterns of the social and economic activities by the action.

Assessment of impacts is done for the following Environmental Parameters:

- Land Environment
- ➢ Water Environment
- > Air Environment
- Noise Environment
- Biological Environment
- Socio Economic Environment

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4.2 LAND ENVIRONMENT:

Aspect		Impa	act		Mitigation Measures
Mining of rough stone and	The proposed 4.2	The proposed 4.24.0 Ha mine located in Kottaiyur			The proposed project site is not prone to any
Gravel	Village having 489	9305 m ³ of	Rough stor	y kind of soil erosion (Source: Bhuvan).	
	operation is prope	osed to car	rry out with	n convention	In addition, garland drainage of 1m x 1m will
	open cast mechan	nized mini	ng with 6.0	meter vertic	be provided to avoid storm water run- off.
	bench and bench	width of 5	.0 meter. A	At the end of	5
	years, mining leas	e area will	be converte	d into ultima	It is proposed to plant 2200 No's of local
	pit.				Magizha maram, Eachai, etc.,) along the
	Description End of the	Length (Max)	Width (Max)	Depth (Max)	roads, outer periphery of the mining area
	lease	(max) (m)	(max) (m)	(max) (m)	soil.
	period				
	A-A' & B-B'	86	53	41	It is proposed to improve the affected land
	A-A' & C-	160	101	11	wherever possible for better land use, so as to
	C'	100	101	41	support vegetation and creation of water
	C-C' & D-	=0	(0)		reservoir in the utimate pit after quarrying.
	D'	72	62	41	
	E-E' & F-F'	92	68	31	
	The main impact land degradation. mining of Rough	of open c The land is Stone Qua	ast mining bound to b arry.	on land-use be excavated f	is for the source of dust generation is majorly due to drilling, blasting, loading & unloading of the mined out mineral, the impact will be

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Impact on soil of the study area will be minimal as there are no wastewater generated, heavy metal infusion, stack emissions.	mitigated by water sprinkling regularly once in 3hrs. The proposed mining activity is carried out in hilly terrain.
Impact due to transformation of terrain characteristics over the large area results in soil degradation.	After removal of minerals, undulating portion will be created. Excavated area or ultimate pit at the end of the mine period will be converted into water reservoir. Two tier tree belts will be planted along the safety distance.
Solid waste will be generated from the mining activity as there will be refuse also generation of domestic waste. If it is not properly managed, may cause odor and health problem to the workers.	The 100% recovery is achieved by extracting the entire mineable reserve. Hence there will be no refuse generation due to the mining activity. Apart from that, a very meagre quantity of domestic waste will be generated in the project, which will be handed over to the local body on daily basis.

4.3 WATER ENVIRONMENT:

Aspect		Impact	Mitigation Measures	
Drilling,	Blasting, Loading	The mining in the area may cause ground water	The water table will not be intersected during	
and	unloading,	contamination due to intersection of the water table	mining, as the ultimate depth is limited upto 41	
		and mine runoff.	m (below ground level), whereas the ground	
			water table is at 60 m below the ground level.	

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Transportation	of	the		The municipal wastewater will be disposed into
excavated mineral.				septic tanks of 5 cum and soak pit. No chemicals
				consisting of toxic elements will be used for
				carrying out mining activity.
			The ground water depletion may occur due to mining	The ground water table is at a depth of 60 m
			activity	BGL, the mining operation will not affect the
				aquifer. The ultimate pit at the end of the mining
				operation will be used for rain water storage, the
				stored water will be used for green belt
				development and further the stored water will be
				used for domestic purposes (other than drinking)
				after proper treatment.
			Chemicals consisting of nitrate used for blasting may	Further, the run-off water will be stored in
			pollute the surface run off.	sumps and after proper treatment; water will be
				used in the mining operation for dust
				suppression.
			Improper management of Domestic wastewater in	Provision of urinals/Latrines along with septic
			the Mine lease may create unhygienic conditions in	tank followed by soak pit arrangement will be
			the site thereby causing health impacts to the labours.	provided in the Mine Lease area for the proper
				management of wastewater

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4.4 AIR ENVIRONMENT:

Aspect	Impact	Mitigation Measures
Drilling, Blasting, Loading	Impacts during Operation Phase	Mitigation Measures during Operation Phase
and unloading,	During mining operation, fugitive dust and other air	It is proposed to plant 2200 Nos of local species
Transportation of the	pollutants like particulate matter (PM10 & PM 2.5)	along the haul roads, outer periphery within the
excavated mineral.	will be generated.	lease area to prevent the impact of dust in
		consultation with Forest department for the
	The main source of pollutants arises due to drilling	plantation of trees (Neem, Magizham,
	and blasting. 10 Nos of Tipper will be used for loading	Tamarind, Elandhai and Vilvam) in two tier to
	and unloading, 4 Nos of Excavator (0.90 m ³ bucket	combat air pollution and with herbs (Nerium) in
	capacity, and 4 Nos Jack Hammer will be used for	between the tree species.
	excavation of the mineral which contributes to the	Planning transportation routes of the mined out
	generation of fugitive dust. In addition, blasting will	mineral, so as to reach the nearest payed roads
	be done using explosives leading to the generation of	(an approach road) by shortest route connecting
	dust.	to NH 44.
		Alternatively, gravelled road may be constructed between mine lease area and nearest paved road connectivity. The speed of trucks plying on the haul road will be limited to 20km/hr to avoid generation of dust.

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 <i>Effect on Human</i> Adverse effect on human health of working labourers and neighbouring villagers like effect on breathing and respiratory system, damage to lung tissue, influenza or asthma. Dust generation due to loading and unloading of mineral and due to transportation can also affect the workers as well as nearby villagers. 	The trucks will be covered by tarpaulin. Overloading will be avoided. Personal Protective Equipments (PPEs) like eye goggles, dust mask, leather gloves, safety shoes & boots will be provided to the workers engaged at dust generation points like excavation and loading points.
 <i>Effect on Plants</i> Stomatal index may be minimized due to dust deposit on leaf. 	0.5 KLD of water will be proposed for sprinkling on unpaved roads to avoid dust generation during transportation.

Air Quality Modeling:

The AERMOD is actually a modeling system with three separate components:

- AERMOD (AERMIC Dispersion Model),
- AERMAP (AERMOD Terrain Preprocessor)
- AERMET (AERMOD Meteorological Preprocessor)

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4.4.1 Source Characterization

A detailed listing of all emission sources and their corresponding modelling input release parameters and emission rates is listed this report. A general description of how each source type was treated is presented below.

The emission Sources from the proposed operation are

Point Sources:

Point sources for mining operations are typically include dust collectors, hot water heaters, and emergency generator(s). Since at the present project the following sources are anticipated.

- 1. Hydraulic excavator 0.90 Cum Bucket Capacity (with Rock Breaker Attachment)
- 2. Jack Hammer 32 mm Dia
- 3. Tipper
- 4. Tractor Mounted Compressor
- 5. Drilling and excavation with Accessories

Road Sources:

A road network was developed to depict the anticipated haul truck routes and truck discharge locations during the mine operations. The anticipated emissions from the road sources and corresponding anticipated impact during the monitoring period of May to August 2022 emissions were estimated. Emissions due to haul road and general plant traffic on the unpaved road network were modelled as volume sources. The model volume source parameter for the haul roads initially utilized USEPA developed emission factors for hauling trucking. The haul road sources utilized source to source spacing of 6 meters along the simulated haul roads. The initial lateral dimension of the sources were set to 3 m were used as an input to replicated a 2 truck travel adjacent for a typical mining scenario.

The parameters considered for the hauling operation include the following,

- size of haul trucks commonly used
- degree of dust control/compaction of permanent haul roads

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Other fugitive particulate emission sources:

Other fugitive particulate emission sources that were modelled as volume sources include the following:

- Fugitive emissions from trucks unloading at the primary crusher were represented by a single volume source. The release height was set to 0 meters (dump pocket is at grade level).
- Fugitive emissions due to wind erosion is not considered as the mining area is predominately rocky surface with minimal wind erosion. If an wind erosion is anticipated to occur, it would be localized.
- Fugitive emissions from transfer points were represented by single volume sources. The release heights for these sources were set to the actual height of the truck transfer process.

Post Project Scenario

Emissions from operations will result from process equipment and mining operations. Process equipment was modeled at maximum capacity. Emissions from mining were based upon the mining rate and haul truck travel necessary to transport the stones and waste from the pit to the storage area.

Predicted maximum ground level concentrations considering micro meteorological data of June to August 2022 are superimposed on the maximum baseline concentrations obtained during the study period to estimate the post project scenario, which would prevail at the post operational phase. The overall scenario with predicted concentrations over the maximum baseline concentrations is shown in the following table along with isopleths.

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Table 4-1 Emission Factors for uncontrolled mining

Activity	Emission Factor		References	
	Scraper	0.029 Kg TSPM/ average time between spray application	USEPA (2008)	Jose I. Huertas & Dumar A.
Topocil hondling	Bulldozing	15.048 kg PM10/ Hr excavation	USEPA (2008)	Standardized emissions inventory methodology for open-pit mining areas, Environmental Science Pollution Research 2012
Topsoil handling	Loading	2.3237E-04 kg PM10/ average time between spray application	USEPA (2006a)	
	Haulage	0.69718 kg PM10/VKT	USEPA (2006a) Cowherd (1988)	
	Wet drilling	8.00E-5 lbs PM10/ Ton produce	EPA. August, 2004. Sect Processing and Pulverized	ion 11.19.2, Crushed Stone Mineral Processing. In:
Rough stone mining	ne Compilation of Air Pollutant Emis Loading 1.00E-4 lbs PM10/ Ton produce Stationary Point and Area Sources, F Environmental Protection Agency Planning and Standards. Researd Carolina. Compilation of Air Pollutant Emis		Emission Factors, Volume 1: rces, Fifth Edition, AP-42. U.S. gency, Office of Air Quality esearch Triangle Park, North	

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4.5 NOISE ENVIRONMENT:

Aspect	Impact	Mitigation Measures
Drilling, Blasting, Loading	Usage of Equipments (Excavator, Tipper, Jack	• The machinery will be maintained in good
and unloading,	Hammer), Machinery and trucks used for	running condition so that noise will be reduced
Transportation of the	transportation will generate noise.	to minimum possible level.
excavated mineral.		• Awareness will be imparted to the workers
	Noise from the machinery can cause hypertension,	once in six months about the permissible noise
	high stress level, hearing loss, sleep disturbance etc	level and effect of maximum exposure to those
	due to prolonged exposure.	levels. Adequate silencers will be provided in all
		the diesel engines of vehicles.
		• It will be ensured that all transportation
		vehicles carry a valid PUC Certificates.
		• Speed of trucks entering or leaving the mine
		will be limited to moderate speed (20km/hr) to
	Number of vehicles will be increased due to the	prevent undue noise from empty vehicles.
	proposed mining activity hence vehicle may collate	The noise generated by the machinery will be
	which may result in unwanted sound and can also	reduced by proper lubrication of the machinery
	cause impact on human health like breathing and	and other equipments.
	respiratory system, damage to lung tissue, influenza	• It is proposed to plant 2200 Nos. of local
	or asthma.	species (Neem, Mandharai, Athi, Tamarind,
		Ashoka, Casuarinas and Villam) to reduce the

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impact of noise in the study area. The	
development of green belts around the periphery	
of the mine will be implemented to attenuate	
noise.	
• The trucks will be diverted on two roads viz.	
NH 44 and a District Road to avoid traffic	
congestion.	
• Health check-up camps will be organized	
once in six month.	
• Use of personal protective devices i.e.,	
earmuffs and earplugs by workers, who are	
working in high noise generating areas.	
• Provision of quiet areas, where employees	
can get relief from workplace noise.	

4.6 **BIOLOGICAL ENVIRONMENT:**

Aspect	Impacts	Mitigation Measures
Site Clearance	Loss of habitat due to site clearance which may lead to	The proposed mining lease is already a dry land
	ecological disturbance.	hence no site clearance is required. Only few
		shrubs and herbs like parthenium sp., prosopis
		juliflora were present.

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Planting of trees	Development of afforestation in the mine lease area	safety distance will be provided all along the
	will have a positive impact as the land was initially a	boundary of the mine lease area and safety.
	barren.	Around 0.86.3 Ha of land is utilized for greenbelt
		development (2200 Nos - 5 years). This will
		attract avifauna thus enhancing the existing
		ecological environment.

4.7 <u>SOCIO ECONOMIC ENVIRONMENT:</u>

Aspect	Impact	Mitigation Measures	
Proposed implementation	Land acquisition for the implementation of the	The proposed project is a patta land of Thiru	
of Mining activity	project may result in loss of assets, which in return	S.Marimuthu and the land is vacant where there	
	will make the PAP to shift, losing their normal	are no human settlement within 300m radius.	
	routine and livelihood	Hence the project does not involve	
		Rehabilitation and resettlement	
Drilling, Blasting, Loading	The mining activities may cause dust emission,	No human activity is envisaged near the project	
and Transportation of the	noise pollution thereby causing disturbance to the	site. The nearest human settlement is observed in	
mined out mineral	local habitat	MC puram village which is 0.45 km, N from site	
Grazing and Rearing	The Grazing and rearing of local animals like Sheep,	It is proposed to use gravelled road and nearest	
activities in the nearby	Goat and cows is observed in the nearby villages,	paved road and preferred not to use unpaved	
villages	which may be affected due to the project as the	roads. In addition to that, the speed of trucks will	
	movement of the vehicles may affect/injure the	be limited to 20km/hr to avoid any accidents.	
	animals		

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Employment opportunity	The project will improve the livelihood of the local	After the development of the proposed mine, it	
	people	will improve the livelihood of local people and	
		also provide the direct and indirect employment	
		opportunities. The rough stone for the	
		infrastructural development in the area will be	
		made available from the local markets at	
		reasonably lower price.	
Corporate Environmental	The proposed project will help in natural resource	As a part of CER i.e, 5 Lakhs will be allocated.	
Responsibility	augmentation & Community resource development.	Developing sports facilities, providing hygienic	
		toilet, R.O Water facilities to Government	
		Higher Sec. School, Appayanaickenpatti.	

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4.8 OTHER IMPACTS:

S. No	Aspect	Impact	Mitigation measure
1.	Risk due to the	Accidents may occur in	Proper PPE kit (Safety jacket, Helmet,
	proposed mining	the mine area	Safety Shoes, Gloves) etc will be provided
			to each and every employee in the mine
			lease concerning the safety of each labour
2.	Blasting	Injury to the labours due	Alarm system in the form of Siren will be
		to the blasting activity	engaged in the project site to caution the
			blasting activity. In addition to that, the
			blasting activity will be scheduled at
			particular time – 5 P.M to 6 P.M (or
			whenever required) so that the employees
			will be aware of the activity. Smoking will
			be banned in the site and sign boards will
			be displayed in various places at site.
3.	Screening of	Labors will be checked	All the labors will be checked and
	Labors	for health condition	screened for health before employing
		before employing them in	them.
		mining activity	After employing them, periodical medical
			checkups will be held once in every six
			months.

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5 Analysis Of Alternatives

5.1 **GENERAL**

Analysis of alternative is a significant aspect in planning and designing any project. Cost benefit analysis should be work out along with other parameters while choosing an alternative in such a way that the production is maximum and the mining operation is environment friendly and cost effective. The mine plan and mine closure plan Mining Plan was approved by The Assistant Director , Geology & Mining, Virudhunagar District prior to submission of the Form-1 and PFR. ToR issued by the SEIAA-TN vide Letter No. SEIAA-TN/ F. No. 9319/ ToR-1232/2022 Dated: 30.08.2022. The study for alternative analysis involves in-depth examination of site and technology.

5.1.1 Analysis for Alternative Sites and Mining Technology

5.1.1.1 Alternative Site

The proposed project is the mining of Rough Stone Quarry and is proposed after prospecting the area. In other words, these can be implemented in the mineral available zone. Since the mining block has been allotted in principal by the State Government, there is no case for studying and exploring any other site as an alternative.

5.1.1.2 Alternative Technology

The open cast mining could be manual/mechanized depending upon the geological and topographical setup of the mineral (ROM) to be won and the daily/annual targeted production.

S. No.	Particular	Alternative	Alternative	Remarks
		Option 1	Option 2	

Table 5-1:	Alternative	for	Technology	and	other	Parameters

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1.	Technology	Opencast	Opencast	Opencast semi mechanized
		semi	mechanized	Involving drilling and blasting are
		mechanized	mining	preferred.
		mining		Benefits:
				Material is hard so to make it loose
				and to bring it to appropriate size.
2.	Employment	Local	Outsource	Local employment is preferred
		employment.	employment	Benefits:
				Provides employment to local
				people along with financial benefits
				No residential building/ housing is
				required.
3.	Labour .	Public transport	Private transport	Local labours will be deployed from
	transportation			MC puram village so they will either
				reach mine site by bicycle or by
				foot.
				Benefits:
				Cost of transportation of labors will
		D 11		be negligible
4.	Material	Public transport	Private transport	Material will be transported
	transportation			through trucks/trolleys on the
				contract basis
				Benefits:
				It will give indirect employment.
5.	Water	Tanker supplier	Ground water/	Tanker supply will be preferred.
				Water will be sourced from MC
				Puram village which is 0.45 km, N
				from site.

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6 Environmental Monitoring Program

6.1 **GENERAL**:

This chapter covers the planned environmental monitoring program. It also includes the technical aspects of monitoring the effectiveness of mitigation measures.

Monitoring is important to measure the efficiency of control measures. Post project monitoring of environmental parameters is of key importance to assess the status of environment. The monitoring program will serve as an indicator for identifying environmental degradation due to operation of the project and help in selection of appropriate mitigation measures to safeguard the environment.

Regular monitoring is as important as control of pollution since the efficacy of control measures can only be determined by monitoring. The project proponent has awarded **M/s. Ecotech Labs Pvt Ltd** for carrying out the post project environmental monitoring (PPM) and timely compliance report submission to various regulatory authorities.

Therefore, regular monitoring programme of the environmental parameters is essential to take into account the changes in the environmental quality. The objectives of monitoring are to:-

- Verify effectiveness of planning decisions;
- Measure effectiveness of operational procedures;
- Confirm statutory and corporate compliance; and
- Identify unexpected changes.

Table 6-1: Environmental Monitoring Programme

Parameters	Sampling	Frequency	Location	
Air environment –	5 locations	24 hourly twice a	Project Site,	
Pollutants		week	Sivanthi Patti,	
PM 10		4 hourly.	Bommayapuram	Primary
PM 2.5			school,	

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SO ₂		Twice a week, One	Sennal kudi,
NO		non monsoon season	Mannar kottai primary school
X		8 hourly, twice a	
		week	
		24 hourly, twice a	
		week	
Noise	5 locations	24 hourly Once in 5	Project Site,
		locations	Sivanthi Patti,
			Bommayapuram Primary
			school
			Sennal kudi
			Mannar kottai primary ashaal
	1 51		Mannaf kottal primary school
Water (Grou	nd 5 locations	Once in 5 locations	Project Site,
water)			Sivanthi Patti,
• pH			Bommayapuram Primary
• Tempera	tıı		school,
re			Sennal kudi,
• Turbidit	у		Mannar kottai primary school
• Magnesi	11		
m			
Hardness	5		
• Iotal Alkalinit	V		
Chloride			
Sulphate			
Fluoride			
• Nitrate			
Potassiu	m		
 Salinity 			
• Total			
nitrogen			
• Total			
Coliform	IS		

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Fecal Coliforms			
Water (surface	Sample	One time Sampling	Arjunan river
water)	from		
• pH	nearby		
• Temperatu re • Turbidity • Magnesiu	lakes/river		
m Hardness • Total Alkalinity • Chloride • Sulphate • Fluoride • Nitrate • Sodium • Potassium • Salinity • Total nitrogen • Total Coliforms • Fecal Coliforms			
Soil	5 locations	Once in 5 locations	Project Site,
(Organic matter,			Sivanthi Patti,
Texture, pH,			Bommayapuram Primary
Electrical			school,
Conductivity,			Sennal kudi,
Permeability,			Mannar kottai primary school
Water holding			
capacity, Porosity)			

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Ecology and	Study area	One time Sampling	
biodiversity Study	covering 5		
	km radius		
Socio- Economic	Villages	One time Sampling	
study	around 5		
(Population,	km radius		
Literacy Level,			
employment,			
Infrastructure like			
school, hospitals			
& commercial			
establishments)			

Table 6-2: Monitoring Schedule during Mining

S. No.	Attributes	Parameters	Frequency	Location
1.	Ambient Air	PM 10	Once in a	Project Site
	Quality at	PM 2.5	Month	
	Mine Site &	SO ₂		
	Fugitive Dust	NO _v		
	Sampling	Δ		
2.	Ground water	Drinking Water Parameters, As	Half yearly	Project Site
	Quality	per IS - 10500: 2012		
3.	Surface Water	Class will be assessed as per	Half yearly	Project Site
	Quality	the CPCB Guidelines		
4.	Soil Quality	(Organic matter, Texture, pH,	Half yearly	Project Site
		Electrical Conductivity,		

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		Permeability, Water holding		
		capacity, Porosity)		
5.	Noise Level	Noise level in dB(A)	Half yearly	Project Site
	Monitoring	Quaterly/half yearly		

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7 Additional Studies

7.1 <u>GENERAL</u>

This chapter covers the details of the additional studies viz. Risk assessment, Disaster Management, Public Hearing, Rehabilitation and Resettlement.

7.1.1 Public Hearing:

As the proposed mining project falls under 1(a), Category B1 – Cluster Mining (includes **Existing Quarries-** Thiru.C.Selvarajpandi -4.03.00 Ha, Thiru. R.Rajeshkanna-1.20.50, Tmt.C.Vannamuthu-0.46.00

Abandoned /Old Quarries – NIL

Proposed Quarries - Thiru.S.Marimuthu -4.24.0 Ha

Hence under 7(III) of EIA notification 2006 and its subsequent amendments, the project involves the Public Consultation and the same will be conducted under SPCB (TN) in Virudhunagar District. The proceedings of the same will be incorporated in the Final EIA Report.

7.1.2 Risk assessment:

For mining projects to be successful, it should meet not only the production requirements, but also maintain the highest safety standards for all the workers. The industry has to identify the hazards, assess the associated risks and bring the risks to tolerable level regularly. Mining has considerable safety risk to miners. Unsafe conditions and practices in mines lead to a number of accidents and causes loss and injury to human lives, damages the property, interrupt production etc. Risk assessment is a systematic method of identifying and analyzing the hazards associated with an activity and establishing a level of risk. The hazards cannot be completely eliminated, and thus there is a need to define and estimate an accident risk level possible to be presented either in quantitative or qualitative way.
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7.1.3 Identification of Hazard

7.1.3.1 Blasting Pattern:

The quarrying operation will be carried out in conjunction with conventional method of mining using Jack hammer drilling and blasting for shattering effect and loosen the Rough stone.

7.1.3.2 Drilling and Blasting:

Drilling and Blasting parameters are as follows:

Depth of Each hole	1.2m-1.5m
Diameter of hole	30-32mm
Spacing between holes	0.5m
Burden per hole	0.5m
Pattern of hole	Zigzag
Inclination of holes	80° from horizontal
Use of delay detonators	25 milli-second delays
Detonating fuse	"Detonating" Cord
Hole pattern	Staggered in 2 to 3 rows

a. Types of explosives to be used:

Slurry Class 3 explosives, type of nitro compound are proposed to be used for shattering and heaving effect for removal and winning of Rough Stone. No deep hole drilling or Primary blasting is proposed. Detonators of Class 3 and Safety fuse of Class 6 are used.

b. Measures proposed to minimize ground vibration due to Blasting:

The quarry is situated more than 1.0 km from the nearby villages. Controlled blasting measures will be adopted for minimizing ground vibration and fly of rock. Shallow depths jackhammer drilling & blasting is proposed to be carried out with minimum use of explosive mainly to give the shattering effect in rough stone for easy excavation and to control fly of rocks.

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Diameter of Holes = 30-32mm Depth = 1.2 to 1.5 m

Storage and safety measures to be taken while blasting: The proponent will engage an authorized explosive agency to carry out the small amount of blasting and it will be supervised by competent and statutory Foreman/Permit Mines Manager.

Heavy Machineries: The following heavy machineries will be used in the proposed area:

- For Mining Excavator of 0.90 Cum Bucket capacity, Jack Hammers (30-32 mm Dia) of 4 Nos.
- Loading Equipment Excavator of 0.9 Cum Bucket Capacity
- Transportation (includes within the mine and mine to destination) Tipper 10 No of 10 M.T capacity (from quarry to needy peoples and local crushers)

a. Risk:

Most of the accidents during transport of mined out mineral using other heavy vehicles are often attributed to mechanical failures and human errors.

- b. Mitigation measures to minimize the risk
- At the time of loading no person will be allowed within the swing radius of the excavation.
- The dumpers/ trucks will stand near the loading equipment and fully braked when the muck is filled in it.
- The truck would be brought to a lower level so that the loading operation suits to the ergonomic condition of the workers.
- The workers will be provided with helmets, gloves and safety boots; loading and unloading operations will be carried out only during daylight
- All the mining machineries will be regularly maintained and checked such as brakes, lights and horns to keep in the efficient working order.

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- 7.1.4 General Precautionary measures for the Risk involved in the proposed mine:
- In order to take care of above hazard/disaster, the following control measures will be adopted:
- All safety precautions and provisions of Mine Act, 1952, Metalliferous Mines Regulation, 1961 and Mines Rules, 1955 will be strictly followed during all mining operations;
- Entry of unauthorized persons will be prohibited;
- Firefighting and first-aid provisions in the ECC and mining area;
- Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the workers (18 Nos.) and regular inspection for their use;
- In case of eventuality, first aid will be given by the senior safety office in the mine area initially to the injured person. The safety officer will give notice of accident as per Rule-23 of Mines Act-1952;
- The safety officer (common for 3 mines within 500m radius) will be responsible for coordination between management district authorities/DGMS etc. Regarding general safety as per Rule-181 of MMR 1961, "No person shall negligently or will fully do anything likely to endanger life or limb in the mine, or negligible or will fully omit to do anything necessary for the safety of the mine or of the persons employed there in". The workers will be provided with protective foot wear and safety helmets;
- Cleaning of mine faces will be regularly done;
- Handling of explosives, charging and blasting will be carried out by highly skilled labors only;
- Regular maintenance and testing of all mining equipment as per manufacturer's guidelines;
- Suppression of dust by sprinkling water on the haulage roads;

7.1.5 Safety Team:

The effective implementation of compliance of Safety Rules/ Statutory Provisions will be ensured. The safety officer will be engaged, meeting the requirement of Mines Act and their duties and responsibilities. The safety officer will be responsible for identification of the hazardous conditions and unsafe acts of workers and advice on corrective actions, conduct safety audit, organize training programs and provide professional expert advice on various

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issues related to occupational safety and health. Organizing safety training will be conducted to employees and contractor labors periodically.

7.1.6 Emergency Control Centre

The emergency control center will be provided to handle the emergency. The site main controller, key personnel and the senior officers of the fire and police services will attend it. The center will be equipped to receive and transmit information and directions from and to the incident controller and other areas of the works, as well as outside. The emergency control center will be sited in an area of minimum risk. This common Emergency control centre will be used for the mines around the 500m radius

7.2 DISASTER MANAGEMENT

The possible risks in the case of stone along with associated minor minerals mining projects are fly rock, vibration failure of pit, slope and waste dump, accidents due to transportation. Mining and allied activities are associated with several potential hazards to both the employees and the public at large. Safety of the mine and the employees is taken care of by the mining rules & regulations, which are well defined with laid down procedure for safety, which when scrupulously followed, safety is ensured not only to manpower but also to machines & working environment.

7.2.1 Emergency Management Plan For Proposed Mines On Site- Offsite Emergency Preparedness Plan:

The emergency plan delineates the procedures for dealing with accidents or unexpected events and natural calamities arising from mining activity. An experience of any accidents that have occurred in other manufacturing/mining projects is considered to prepare this plan. This Emergency plan should be periodically reviewed and modified. It should also be changed based on the observations of emergency mock drills and experience of handling actual emergencies.

Major objectives of this onsite – offsite emergency plan are:

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> To take necessary proactive and preventive actions to avoid the emergency.

The main aim of any emergency plan should be to prevent emergency situations.

To train the manpower to handle the emergencies of the following nature:

- Onsite (Within ML boundary)
- Offsite (Outside ML boundary)

7.2.1 Onsite off-site emergency Plan:

1- Emergency on account of:

- ➤ Fire
- ➢ Explosion
- > Major accidents involving man-made collapse of the mining edges.
- > Snake bites, attack by honey bees or attack by wild animals.

2- Disaster due to natural calamities like:

- > Flood/ heavy rains which can involve natural landslides.
- ➢ Earth quake
- Cyclone
- ➢ Lightening

7.2.2 Emergency Plan:

- The mining operations should be immediately stopped in case of any emergency. A siren will be sounded during emergency time.
- An emergency assembly point will be created and all the workers will guide visitors or contractors to approach assembly point.
- Emergency vehicle (Ambulance) will be available in the nearby place, in proximity to the three mines and will rush to the emergency control centre at the blowing of emergency siren. The driver of emergency vehicle will follow the instructions of Incident Controller/Site Main Controller.
- Workers will be trained for the precautions to be taken during natural disasters like heavy rain, floods, earthquake and cyclone.

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All escape routes from mines to the assembly point or any other safe location will be made and the escape plan will be displayed in many places in the mine area

7.2.3 Emergency Control:

- Shut down of mining operations: Raising the alarm or siren followed by immediate safe shut down of the power supply, and isolation of affected areas.
- > Treatment of injured: First aid and hospitalization of injured persons
- Protection of environment and property: During mitigation, efforts will be made to prevent impacts on environment and property to the extent possible.
- Preserving all evidences and records: This will be done to enable a thorough investigation of the true causes of the emergency.
- Ensuring safety of personnel prior to restarting of operations: Efforts required will be made to ensure that work environment is safe prior to restarting the work.

7.3 NATURAL RESOURCE CONSERVATION

There are no natural resources within the premises. The conservation strategies for energy will be followed in the proposed mine lease area. The pollutants of the mine will be minimized by adopting appropriate mitigation measures as mentioned Chapter 5 to prevent the effects on nearest water bodies. No surface runoff from the project site will be let into the nearest water bodies.

7.4 RESETTLEMENT AND REHABILITATION:

The proposed Mine lease area is a patta land. There is no displacement of the population within the project area and adjacent nearby area and hence Rehabilitation & Resettlement is not applicable.

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8 Project Benefits

8.1 GENERAL

This chapter covers the benefits accruing to the locality, neighborhood, region and nation as a whole. It brings out the details of benefits by way of improvements in the physical infrastructure, social infrastructure, employment potential and other tangible benefits.

8.1.1 Physical Benefits

The opening of the proposed project will enhance the following physical infrastructure facilities in the adjoining areas:

Market: Generating useful economical resource for construction. Due to demand supply chain, excavated mineral (Rough stone) will sold in the market in the affordable price.

Infrastructure: The excavated rough stone will be used for *Laying Roads, Building & Construction Projects, Bridges.*

Enhancement of Green Cover & Green Belt Development: As a part of reclamation plan, native tree species will be planted along the safety boundary of the mine lease area. A suitable combination of trees that can grow fast and also have good leaf cover will be adopted to develop the green belt. It is proposed to plant 2200 numbers of native species along with some fruit bearing and medicinal trees during the mining plan period.

8.2 SOCIAL BENEFITS

The mining in the area will create rural employment. During site visit, it has been observed that the economic conditions of the villages in the study area is quite normal. After the development of the proposed mine, it will improve the livelihood of local people and also provide the indirect employment opportunities. The rough stone for the infrastructural development in the area will be made available from the local markets at reasonably lower price.

As a part of CER, i.e., 5 Lakhs will be allocated. The detailed agenda, which is to be executed has been framed. The salient features of the programmes are as follows:

Construction of Infrastructure, additional class room, Environmental books for library (in Tamil language), Greenbelt facilities and basic amenities such as safe drinking water, Hygienic Toilets facilities, furniture to Government higher secondary School, Appayanaickenpatti.

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8.3 PROJECT COST / INVESTMENT DETAILS

2	Fixed Asset Cost:1. Land Cost2. Labour shed3. Sanitary Facility4. Fencing Cost5. Other ItemsTotal=Production Cost:Drilling and Blasting cost / unitproduction including loading &	· · · · · · · · · · · · · · · · · · ·	Rs. 4,50,000 Rs.50,000 Rs. 50,000 Rs.2,50,000 Rs.25,000 Rs. 8,25,000/- Rs. 60/-
	breaking. i).Mining cost for rough stone up to 5 Years planned production quantity Total Minable quantity in M3 Total cost of mining Rough Stone		4,89,305 M ³ (1,72,900 Units) 1,72,900 X Rs. 60/- Rs. 1,03,74,000/-
	 ii).Mining cost for gravel & weathered rock for 5 Years planned production quantity Total Minable quantity in M3 Total cost of mining - Gravel Total Cost for Mining 		96,090 M ³ (33,954 Units) 33,954 X Rs. 25/- Rs. 8,48,850/- Rs. 1,09,67,765/-
	Total Project Cost	:	Rs. 1,12,22,800/-

Total Project Cost: Rs. 1,12,22,800/- (One crore twelve Lakhs twenty two Thousand and eight hundred Rupees Only)

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	Mitigation	Provision for	Canital	Dogurring	Domorks
	Compaction, gradation and drainage on both sides for Haulage Road	Rental Dozer & drainage construction on haul road @ Rs. 10,000/- per hectare; and yearly maintenance @ Rs. 10,000/- per hectare	40000	40000	Depends on area; both capital and recurring costs should be multiplied by the number of hectares
	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	Fixed Sprinkler Installation and New Water Tanker Cost for Capital; and Water Sprinkling (thrice a day) Cost for recurring	800000	50000	
Air Enviro nment	Air Quality will be regularly monitored as per norms within ML area & Ambient Area	Yearly Compliance as per CPCB norms	0	50000	
	Muffle blasting – To control fly rocks during blasting	Blasting face will be covered with sand bags / steel mesh / old tyres / used conveyor belts	0	5000	
	Wet drilling procedure / latest eco- friendly drill machine with separate dust extractor unit	Dust extractor @ Rs. 25,000/- per unit deployed as capital & @ Rs. 2500 per unit recurring cost for maintenance	75000	7500	Depends on number of jack hammers deployed; capital and recurring costs are shown for 2 units
	No overloading of trucks/tippers/ tractors	Manual Monitoring through Security guard	0	5000	
	Stone carrying trucks will be	Monitoring if trucks will be covered by tarpaulin	0	10000	

Project	Rough stone Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA Report
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	covered by tarpaulin				
	Enforcing speed limits of 20 km/hr within ML area	Installation of Speed Governers @ Rs. 5000/- per Tipper/Dumper deployed	10000	0	Depends on number of tipper/dumper s deployed; capital costs are shown for 1 unit
	Regular monitoring of exhaust fumes as per RTO norms	Monitoring of Exhaust Fumes by Manual Labour	0	5000	
	Regular sweeping and maintenance of approach roads for at least about 200 m from ML Area	Provision for 2 labours @ Rs.10,000/labour (Contractual) per Hectare	0	160000	
	Installing wheel wash system near gate of quarry	Installation + Maintenance + Supervision	50000	20000	
Noise Enviro nment	Source of noise will be during operation of transportation vehicles, HEMM for this proper maintenance will be done at regular intervals.	Provision made in Operating Cost	0	0	
	Oiling&greasingofTransportvehiclesandHEMMatregular	Provision made in Operating Cost	0	0	

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interval will be done				
Adequate silencers will be provided in all the diesel engines of vehicles.	Provision made in Operating Cost	0	0	
It will be ensured that all transportation vehicles carry a fitness certificate.	Provision made in Operating Cost	0	0	
Safety tools and implements that are required will be kept adequately near blasting site at the time of charging.	Provision made in OHS part	0	0	
Line Drilling all along the boundary to reduce the PPV from blasting activity and implementing controlled blasting.	Provision made in Operating Cost	0	0	
Proper warning system before blasting will be adopted and clearance of the area before blasting will be ensured.	Blowing Whistle by Mining Mate / Blaster / Compentent Person	0	0	

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	Provision for Portable blaster shedInstallation of Portable blasting shelter500		50000	2000	
	NONEL Blasting will be practiced to control Ground vibration and fly rocks	Rs. 30/- per 6 Tonnes of Blasted Material	0	100000	Could depend on volume of mined material
Water Enviro nment	Water management	Provision for garland drain @ Rs. 10,000/- per Hectare with maintenance of Rs. 5,000/- per annum	40000	5000	Only capital costs depend on area; capital costs should be multiplied with number of hectares
	Waste management (Spent Oil,	Provision for domestic waste collection and disposal through authorized agency	25000	20000	
Wasto	Grease etc.,)	Installation of dust bins	5000	2000	
Waste Manag ement	Bio toilets will be made available outside mine lease on the land of owner itself	Provision made in Operating Cost	0	0	
Imple mentat ion of EC, Mining Plan & DGMS	Size 6' X 5' with blue background and white letters as mentioned in MoM Appendix II by the SEAC TN	Fixed Display Board at the Quarry Entrance as permanent structure mentioning Environmental Conditions	10000	1000	
Condit ion	Workers will be provided with Personal Protective Equipment's	Provision of PPE @ Rs. 4000/- per employee with recurring based on wear and tear (say, @ Rs. 1000/- per employee)	64000	16000	Capital and recurring costs are shown for 10 employees;

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				should be adjusted as per the acturals
Health check up for workers will be provisioned	IME & PME Health check up @ Rs. 1000/- per employee	0	16000	Recurring costs are shown for 10 employees; should be adjusted as per the acturals
First aid facility will be provided	Provision of 2 Kits per Hectare @ Rs. 2000/-	0	8000	Depends on area; recurring costs should be multiplied with number of hectares
Mine will have safety precaution signages, boards.	Provision for signages and boards made	10000	2000	
Barbed Wire Fencing to quarry area will be provisioned.	Per Hectare fencing Cost @ Rs. 2,00,000/- with Maintenance of Rs 10,000/- per annum	800000	40000	Depends on area; both capital and recurring costs should be multiplied by the number of hectares
No parking will be provided on the transport routes. Separate provision on the south side of the hill will be made for vehicles /HEMMs. Flaggers will	Parking area with shelter and flags @ Rs. 50,000/- per hectare project and Rs. 10,000/- as maintenance cost	200000	40000	Depends on area; both capital and recurring costs should be multiplied by the number of hectares

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		T. ()	2781000	1455500		
	Lease Area)	Avenue Plantation @ 300 per plant (capital) for plantation outside the lease area and @ 30 per plant maintenance (recurring)	396000	39600		
Green Belt Develo pment	Green belt development - 500 trees per one hectare (200 Inside Lease Area & 300 Outside	Site clearance, preparation of land, digging of pits / trenches, soil amendments, transplantation of saplings @ 200 per plant (capital) for plantation inside the lease area and @ 30 per plant maintenance (recurring)	176000	26400	2200 No' trees	s of
	Implementatio n as per Mining Plan and ensure safe quarry working	Mines Manager (1 st Class / 2 nd Class / Mine Foreman) under regulation 34 / 34 (6) of MMR, 1961 and Mining Mate under regulation 116 of MMR,1961 @ 40,000/- for Manager & @ 25,000/- for Foreman / Mate	0	780000		
	Installation of CCTV cameras in the mines and mine entrance	Camera 4 Nos, DVR, Monitor with internet facility	30000	5000		
	be deployed for traffic management					

Year 1	Year 2	Year 3	Year 4	Year 5	
4236500	1528275	1604689	1684923	1769169	
T_{2} = 1 EVD O_{2} = + 100 (I_{2} = 1-1-2)					

Total EMP Cost -108 (Lakhs)

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9 Environmental Management Plan

9.1 INTRODUCTION

This chapter comprehensively presents the Environmental Management Plan (EMP), which includes the administrative and technical setup, summary matrix of EMP, the cost involved to implement the EMP, during various Mining activities and provisions made towards the same in the cost estimates of project. This chapter describes the proposed monitoring scheme as well as inter-organizational arrangements for effective implementation of the mitigation measures.

9.2 SUBSIDENCE

Mining will be carried out by opencast mechanized mining method with drilling & blasting as per mining plan approved by Department of Mining and Geology, Virudhunagar. Subsidence/slope failures are not envisaged because there are no loose strata overlying the deposit (mineral to be excavated). The bench height will be 5m. The individual bench slope has been proposed to be kept at 60° from horizontal. Moreover, all safety standards/ safeguards will be implemented as per guidelines prescribed by Director General of Mines Safety.

9.3 MINE DRAINAGE

9.3.1 Storm water Management

The following measures will be taken with respect to the prevailing site conditions.

- Storm water drains with silt traps of size 1m x 1m will be suitably constructed all along the periphery of the pit area to collect the run-off from the mine area and divert into the pit.
- All measures will be taken not to disturb the existing drainage pattern adjacent to the mine lease area.
- The storm water collected from the mine area will be utilized for dust suppression on haul roads, plantation within the premises, etc.,

9.3.2 Drainage

Local workers will be deployed for the project. But, urinals and Latrines will be provided and the same will be connected to septic tank followed by soak pit arrangement. No domestic waste will be deposited into the nearby area. Regular checking will be carried out to find any

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blockage due to silting or accumulation of loose materials. The drains will also be checked for any damage in lining / stone pitching, etc.

9.3.3 Administrative and Technical Setup

The Environment Management Plan (EMP) will consist of all mitigation measures for each component of the environment due to the activities increased during mining operation to minimize adverse environmental impacts resulting from the activities of the project.

To carry out the above activities, Thiru S.Marimuthu will work in association with M/s. Ecotech Labs Pvt Ltd.

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S. No	Impacts on	Activity	Anticipated impacts	Mitigation measures
	Environment	/Aspect		
1.	Air	Fugitive Emission	During mining operation, fugitive dust and other air pollutants like particulate matter (PM10 & PM 2.5) will be generated.	Planting of trees along the safety distance of the Mine Lease Area Water will be sprinkled in the site as dust suppression measure.
2.	Water	Wastewater Generation	Improper management of Domestic wastewater in the Mine lease may create unhygienic conditions in the site thereby causing health impacts to the labors	Provision of urinals/Latrines along with septic tank followed by soak pit arrangement will be provided in the Mine Lease area for the proper management of wastewater.
3.	Noise	Mining activities like drilling, blasting, loading and transportatio n	Noise from the machinery can cause hypertension, high stress level, hearing loss, sleep disturbance etc due to prolonged exposure. Apart from Mining activities like drilling, blasting may generate noise	Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise generating areas.
4.	Land	Improper management of Storm water Runoff	Storm water Runoff may result in Soil Erosion	Garland drainage of 1m x 1m will be provided to avoid storm water run- off.
5.	Social Responsibility	Mining workers	Unhygienic site sanitation facilities may cause health damage to workers.	The objective is to ensure health and safety of the workers with effective provisions for the basic facilities of sanitation, drinking water, safety of equipments or machinery etc. The following will be done in the site

Table 9-1: Impacts and mitigation measures

Project	Rough stone Quarry- 4.24.0 Ha by Thiru.S.Marimuthu	Draft EIA Report
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				 By complying with the safety procedures, norms and guidelines (as applicable) as outlined in the National Building Code of India, Bureau of Indian Standards. Provide adequate number of decentralized latrines and urinals Providing Septic tank along with Soak pit arrangement Providing First Aid room, conducting frequent health checkups to labor and conducting free medical camps Providing Safety helmet, Gloves, Jacket & Boots Providing measures to prevent fires. Fire fighting extinguishers and buckets of sand will be provided in the
	D 111	D '11'		construction site
6.	materials resource conservation	Material consumption	Use of fartetched construction materials than the locally available construction materials may lead to over exploitation of natural resources & increase in carbon footprint.	• Use of locally available construction materials.

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10 Summary & Conclusion

This chapter summarizes the overall justification for implementation of the project and explains how the potential impacts are mitigated.

10.1 INTRODUCTION

Thiru S.Marimuthu site is a cluster of four mining project. Total cluster area is 9.93Ha. The individual mine lease area is 4.24.0 Ha of Rough Stone Quarry located at S.F.Nos. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District.

10.2 PROJECT OVERVIEW

Table 10-1: Project Overview

S No	Description	Details
5. 110.	Description	Details
1	Project Name	Thiru. S.Marimuthu Rough Stone
		Quarry
2	Proponent	Thiru. S.Marimuthu
3	Mining Lease Area Extent	4.24.0 Ha
4	Location	10/12, 11/2A, 11/2C, 11/2D, 11/2E,
		11/2F, 11/2G(P), 11/2H(P), 11/2I(P),
		11/2J2B and 15/2B1
5	Latitude	Latitude : $09^{\circ} 26' 11.60''$ to $09^{\circ} 26'$
		19.15" N
6	Longitude	Longitude : 77° 58' 45.20" to 77° 58'
		56.07" E
7	Topography	Plain terrain
8	Site Elevation above MSL	86 m from AMSL
9	Topo sheet No.	58 G/15 & 58 K/3 of Survey of India
10	Minerals of Mine	Rough Stone and Gravel Quarry
11	Proposed production of Mine	489305 m ³ of Rough stone
12	Ultimate depth of Mining	41 m below ground level
13	Method of Mining	Open cast mechanized mining

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14	Water demand	4.5 KLD
15	Source of water	Water will be supplied through tankers supply
16	Man power	16Nos.
17	Mining Plan Approval	Mining Plan was approved by The Assisstant Director, Geology & Mining, Virudhunagar vide letter Roc.No.KV1/519/2020 dated 27.05.2022.
18	Production details	Geological reserves: 14,61,660 m ³ of Rough stone Proposed year wise reserves: 4,89,305 m ³ of Rough stone
19	Boundary Fencing	7.5 m barrier all along the boundary for adjacent patta lands and 10 m safety distance for Govt. Lands. Fencing will be provided.
20	Disposal of overburden	The overburden is in the form of top soil and weathered rock formation. It will be quarried for filling purposes to nearby end users and part of soil will be preserved all along the boundary as barrier for afforestation.
21	Ground water	Ground water table in this area is below 60 mts from ground level. The quarrying is up to a maximum depth of 41m below the ground level. Hence the quarry operation will not be affected by the ground water. There are few agricultural wells within 1 km radius of the project area. During monsoon and rainy seasons the water level is at 10mts BGL and during summer it becomes dry.
22	Habitations within 300m radius of the Project Site	There is no Habitation within 300m radius of the project site.

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23	Drinking water	Water will be supplied through tankers
		from MC Puram village which is 0.45
		Km North of the area

10.3 JUSTIFICATION OF THE PROPOSED PROJECT

The said project plays a significant role in the domestic as well as infrastructural market. To achieve a huge infrastructure being envisaged by Government of India, particularly in road and housing sector, there is a need for basic building materials. The rough stone form the primary building material.

Rough stone is one of the most valuable natural building materials. Aggregates are mostly used for building roads and footpaths Aggregates – stone used for its strong physical properties – crushed and sorted into various sizes for use in concrete, coated with bitumen to make asphalt or used 'dry' as bulk fill in construction. Mostly used in roads, concrete and building products. Aggregates represent about 98% of quarry output, most of which is used in road construction, maintenance and repair. Much of this goes to the production of asphalt; the remainder is used 'dry' without the addition of other materials to provide a sturdy base for roads.

The most of the area in Virudhunagar District is covered by a vast tract of black soil with residual hills and knolls. Since the area is covered by thick pediments, the geology of the area is studied in available exposure and quarry section opened up for limestone, dimension stone and blue metals for various purposes. The area exposes Khondalite Group of rocks and migmatite gneisses of Precambrian (V.R.Sowmi Narayanan, etal.,). The Khondalite Group of rocks comprises Charnockite, crystalline limestone/calc gneiss, garnetiferousquartzofeldspathic gneiss (leptynite), all these litho units probably represent a sequence of metamorphosed sedimentary units of arenaceous, calcareous and argillaceous composition with various intermixtures of different proportions (V.R.Sowmi Narayanan, etal.,). Granite and quartz veins form the younger intrusive.

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Table 10-2: Anticipate Impacts & Appropriate Mitigation Measures

S. No.	Potential Impact	Mitigation Measure
1	The main impact in the air environment is	Proper mitigation measures like water
	dust emission during various mining	sprinkling on haul roads will be adopted
	activities such drilling, blasting, excavation,	to control dust emissions.
	loading and transportation. The dust	To control the emissions regular
	emission may affect the quality of ambient	preventive maintenance of equipments
	air in the and around the mine area. The	will be carried out on contractual basis.
	increased emission may cause respiratory &	Plantation will be carried out along
	Cardiovascular problems in human health	approach roads & mine premises.
2	Waste water will be generated due to mining	No waste water will be generated from
	activity and from other domestic activities.	the mining activity of minor minerals as
	These may contaminate the ground water	the project only involves lifting of over
	leading to ground water. The mining	burden from mine site. The wastewater
	activity may affect the ground water table	generated from the domestic activity will
		be disposed off safely through the
		proposed septic tank.
		Mining will not intersect ground water
		table. Hence the water table will not be
		impacted due to the proposed project
3	Noise will be generated in the mine area	Periodical monitoring of noise will be
	during various mining activities such as	done.
	blasting, drilling, excavation. During	No other equipments except the
	transportation of the mined out mineral,	transportation vehicles and Excavator
	there may be noise generation due to the	(as & when required) for loading will be
	movement of vehicles. This may impact the	allowed at site.
	health condition of the workers by creating	
	headache	

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1			
			Noise generated by these equipments
			shall be intermittent and does not cause
			much adverse impact.
			Plantation will be carried out along
			approach roads. The plantation
			minimizes propagation of noise and also
			arrest dust.
	4	Solid waste will be generated from the	The 100% recovery is achieved by
		mining activity as there will be refuse after	extracting the entire mineable reserve.
		95% recovery and also generation of	Hence there will be no refuse generation
		domestic waste	due to the mining activity. Apart from
			that, a very meagre quantity of domestic
			waste will be generated in the project,
			which will be handed over to the local
			body on daily basis.
	5	During mining activities, there are chances	Dust masks will be provided as
		of workers getting health issues or may be	additional personal protection
		prone to accidents	equipment to the workers working in the
			dust prone area.
			Periodical trainings will be conducted to
			create awareness about the occupational
			health hazards due to activities like
			blasting, drilling, excavation
			Workers health related problem if any,
			will be properly addressed.

11 Disclosure of Consultant

11.1 INTRODUCTION

This chapter presents the details of the environmental consultants engaged, their background and the brief description of the key personnel involved in the project. Specific studies on the mining project have been carried out by engaging engineers/experts of Ecotech Labs Pvt. Ltd, Chennai. Ecotech Labs Pvt. Ltd (ETL), Chennai is NABET accredited consultancy organization. ETL is equipped with in-house, spacious laboratory, accredited by NABL (National Accreditation Board for Testing & Calibration Laboratories), Department of Science & Technology, Government of India and MoEF & CC.

11.2 ECO TECH LABS PVT. LTD – ENVIRONMENT CONSULTANT

Eco Tech Labs Pvt. Ltd is a multi-disciplinary testing and research laboratory in India. Eco Tech labs provides high quality services in environmental consultancy, engineering solution, chemical and microbiological laboratory analysis of food, water and environment (Air, Water, Soil) with highest accuracy.

The Quality policy

•We at Eco Tech Labs Pvt. Ltd. engaged in providing Environmental consulting services and we are committed to strengthen our capabilities in all areas of our operations in line with customer requirements & expectations, applicable legal requirements & stakeholders expectations.

•We are committed to establish and maintain Quality Management System (QMS) for continual improvement in processes and Services

•We are committed to provide customized solutions in realistic, time bound and cost effective to achieve highest degree of customer satisfaction and Environmental improvement.

•We shall establish, maintain & periodically review our documented management systems, objectives and performance in consultation with our employees and prevailing best practices.

•Effective communication of organization's policy and objectives to employees and seeking feedbacks from all our employees and concerned stakeholders for continual improvement.

ANNEXURE-I

STANDARD TOR CONDITIONS WITH ADDITIONAL TOR POINTS



THIRU.DEEPAK S.BILGI, I.F.S. MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY- TAMILNADU

3rd Floor, Panagal Maaligai, No.1, Jeenis Road, Saidapet, Chennai - 600 015. Phone No. 044-24359973 Fax No. 044-24359975

TERMS OF REFERENCE (ToR)

Lr No.SEIAA-TN/F.No.9319/SEAC/ToR-1232/2022 Dated:30.08.2022

To

Thiru S Marimuthu S/o. Sundaram D. No. 1/177, Melatheru Kadaneri Wathirayiruppu Virudhunagar- 626149

Sir / Madam,

Sub: SEIAA, Tamil Nadu – Terms of Reference with Public Hearing (ToR) for the Proposed Rough Stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G, 11/2H(P), 11/2I(P), 11/2J2B & 15/2B1 Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru.S.Marimuthu - under project category – "B1" and Schedule S.No. 1(a) – ToR issued along with Public Hearing- preparation of EIA report – Regarding.

Ref: 1. Online proposal No. SIA/TN/MIN/78295/2022 Dated: 14.06.2022.

2. Your application submitted for Terms of Reference dated: 15.06.2022

- 3. Minutes of the 302nd Meeting of SEAC held on 17.08.2022
- 4. Minutes of the 547 th meeting of Authority held on 30.08.2022.

Kindly refer to your proposal submitted to the State Level Impact Assessment Authority for Terms of Reference.

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The proponent, Thiru.S.Marimuthu has submitted application for ToR, in Form-I, Pre-Feasibility report for the proposed Rough Stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G, 11/2H(P), 11/2I(P), 11/2J2B & 15/2B1 Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu

Discussion by SEAC and the Remarks:-

Proposed Rough Stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G, 11/2H(P), 11/2I(P), 11/2J2B & 15/2B1 Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru.S.Marimuthu for Terms of Reference (SIA/TN/MIN/78295/2022 Dated: 14.06.2022)

The proposal was placed in this 302nd meeting of SEAC held on 17.08.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following,

The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" 1. of the Schedule to the EIA Notification, 2006.

Based on the presentation made by the proponent, SEAC recommended to grant of Terms of Reference (TOR) with Public Hearing in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

- 1. The PP shall include the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
- 2. As the habitations are located at a distance of 500 m, the PP shall provide conceptual design for carrying out the NONEL initiation based controlled blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 30 m from the blast site.
- 3. In the case of proposed lease in an existing (or old) quarry where the benches are nonexistent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment

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of the 'highwall' benches in the existing quarried pit and the proposed pit indicating the possible stabilizing measures to ensure slope stability as the depth of the planned working is extended beyond 30 m below ground level which shall be submitted as a part of the revised Mining Plan, during the time of appraisal for obtaining the EC.

- 4. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
- The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
- If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - Quantity of minerals mined out.
 - · Highest production achieved in any one year
 - Detail of approved depth of mining.
 - Actual depth of the mining achieved earlier.
 - Name of the person already mined in that leases area.
 - If EC and CTO already obtained, the copy of the same shall be submitted.
 - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
- 7. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 8. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,

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- The proponent shall furnish photographs of adequate fencing, green belt along the periphery 9. including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
- 10. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
- 11. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
- 12. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
- 13. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
- 14. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of air pollution, water pollution, & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
- 15. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.

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- 16. Issues relating to Mine Safety, including slope geometry in case of Granite quarrying, blasting parameters etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 17. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
- 19. Since non-saleable waste /OB / intermediate waste etc. is huge in the granite quarry, the Proponent shall provide the details pertaining to management of the above material with year wise utilization and average moving inventory be submitted.
- 20. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
- Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 22. Impact on local transport infrastructure due to the Project should be indicated.
- 23. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
- A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
- 25. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be

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provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

- The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
- 27. The PP shall produce/display the EIA report, Executive summery and other related information with respect to public hearing in Tamil Language also.
- 28. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
- 29. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-1 in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 30. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
- 31. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
- 33. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

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- 34. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 35. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 36. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 37. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 38. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
- 39. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Discussion by SEIAA and the Remarks:-

The proposal was placed in the 547th Authority meeting held on 30.08.2022. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant **Terms of Reference (ToR)** along with Public Hearing under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal condition in addition to the following conditions:

 Restricting the ultimate depth of mining upto 36m BGL and quantity of 450260 cu.m of Rough stone & 96090 cu.m of Gravel are permitted for mining over a period of five years considering the environmental impacts due to the mining, safety precautionary measures of the working personnel and following the principle of the sustainable mining.

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- Cluster Management Committee, which must include all the proponents in the cluster as members including the existing as well as proposed quarry.
- The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,
- The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.
- Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.
- 6. The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.
- 7. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.
- The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.
- 9. The committee shall furnish the Emergency Management plan within the cluster.
- The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.
- 11. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued from reputed research institutions on the following
 - a) Soil health & bio-diversity.
 - b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - d) Possibilities of water contamination and impact on aquatic ecosystem health.
 - e) Agriculture, Forestry & Traditional practices.

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- f) Hydrothermal/Geothermal effect due to destruction in the Environment.
- g) Bio-geochemical processes and its foot prints including environmental stress.
- h) Sediment geochemistry in the surface streams.
- The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.
- 13. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.
- 14. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished.
- 15. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.
- 16. Impact on surrounding agricultural fields around the proposed mining Area.
- 17. Erosion Control measures.
- 18. Impact on soil flora & vegetation around the project site.
- 19. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
- 20. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.
- 21. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.
- 22. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.
- 23. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.

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- 24. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
- 25. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
- 26. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
- 27. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
- The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
- 29. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.
- 30. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.
- 31. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.
- 32. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.
- 33. The project proponent shall study and furnish the impact of project on plantations in adjoing patta lands, Horticulture, Agriculture and livestock.
- 34. The project proponent shall study and furnish the details on potential fragmentation impact of natural environment, by the activities.
- 35. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
- 36. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

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- The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.
- 38. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.
- 39. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.
- 40. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
- Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.
- 42. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.

A. STANDARD TERMS OF REFERENCE

- Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.

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- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Topo sheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if

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any, of change of land use should be given.

- Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of Net Present Value (NPV) and Compensatory Afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be

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furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for Coastal Projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should

be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the

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monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

- 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in

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AMSL and bgl. A schematic diagram may also be provided for the same.

- 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative

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dimensions may be given with time frames for implementation.

- 38) Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 44) Besides the above, the below mentioned general points are also to be followed:
 - a) Executive Summary of the EIA/EMP Report
 - b) All documents to be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.

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- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the ToR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

In addition to the above, the following shall be furnished:-

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

- 1. Project name and location (Village, District, State, Industrial Estate (if applicable).
- Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
- 3. Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 4. Capital cost of the project, estimated time of completion.
- The proponent shall furnish the contour map of the water table detailing the number of wells located around the site and impacts on the wells due to mining activity.
- 6. A detailed study of the lithology of the mining lease area shall be furnished.
- 7. Details of village map, "A" register and FMB sketch shall be furnished.
- Detailed mining closure plan for the proposed project approved by the Geology of Mining department shall be shall be submitted along with EIA report.
- 9. Obtain a letter /certificate from the Assistant Director of Geology and Mining standing that there

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is no other Minerals/resources like sand in the quarrying area within the approved depth of mining and below depth of mining and the same shall be furnished in the EIA report.

- EIA report should strictly follow the Environmental Impact Assessment Guidance Manual for Mining of Minerals published February 2010.
- Detail plan on rehabilitation and reclamation carried out for the stabilization and restoration of the mined areas.
- 12. The EIA study report shall include the surrounding mining activity, if any.
- 13. Modeling study for Air, Water and noise shall be carried out in this field and incremental increase in the above study shall be substantiated with mitigation measures.
- 14. A study on the geological resources available shall be carried out and reported.
- 15. A specific study on agriculture & livelihood shall be carried out and reported.
- 16. Impact of soil erosion, soil physical chemical and biological property changes may be assumed.
- 17. Site selected for the project Nature of land Agricultural (single/double crop), barren, Govt./ private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
- Baseline environmental data air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population
- Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- 20. Likely impact of the project on air, water, land, flora-fauna and nearby population
- 21. Emergency preparedness plan in case of natural or in plant emergencies
- 22. Issues raised during public hearing (if applicable) and response given
- 23. CER plan with proposed expenditure.
- 24. Occupational Health Measures
- 25. Post project monitoring plan
- The project proponent shall carry out detailed hydro geological study through intuitions/NABET Accredited agencies.
- 27. A detailed report on the green belt development already undertaken is to be furnished and also

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submit the proposal for green belt activities.

- 28. The proponent shall propose the suitable control measure to control the fugitive emissions during the operations of the mines.
- 29. A specific study should include impact on flora & fauna, disturbance to migratory pattern of animals.
- 30. Reserve funds should be earmarked for proper closure plan.
- 31. A detailed plan on plastic waste management shall be furnished. Further, the proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986. In this connection, the project proponent has to furnish the action plan.

Besides the above, the below mentioned general points should also be followed:-

- a. A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- All documents may be properly referenced with index, page numbers and continuous page numbering.
- c. Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- d. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF & CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- e. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. In this regard circular no F. No.J -11013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website http://www.moef.nic.in/ may be referred.

MBER SECRETAR

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- After preparing the EIA (as per the generic structure prescribed in Appendix-III of the
- EIA Notification. 2006) covering the above mentioned points, the proponent will take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
- The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.
- The TORs with public hearing prescribed shall be <u>valid for a period of three years</u> from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

MEMBER SECRETARY SEIAA-TN

Copy to:

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- The Additional Chief Secretary to Government, Environment & Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 9
- The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
- The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
- The APCCF (C), Regional Office, MoEF& CC (SZ), 34, HEPC Building, 1st& 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai -34.
- Monitoring Cell, IA Division, Ministry of Environment, Forests & CC, Paryavaran Bhavan, CGO Complex, New Delhi 110003
- 6. The District Collector, Virudhunagar District.
- 7. Stock File.

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COMPLIANCE OF TOR CONDITIONS

Point wise compliance of ToR points issued by SEIAA, TN vide letter No. SEIAA-TN/F. No. 9319/ToR-1232/2022 Dated: 30.08.2022 for Mining of Minor Minerals in the Mine of "Proposed Rough stone & Gravel Quarry Over an Extent of 4.24.0 Ha at S.F.No. 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamilnadu State.

ToR			Page Ref.
Dof	Description	Response	in EIA
Kel.			Report
1	Year-wise production details	Precise Area Communication Letter received	
	since 1994 should be given,	from Assistant Director, Department of	Chapter-2
	clearly stating the highest	Geology and Mining; Virudhunagar vide	
	production achieved in any	letter Na.ka.No.KV1/519/2020-Kanimam	Table
	one year prior to 1994. It	dated 25.02.2021	No.2.2
	may also be categorically		Page
	informed whether there had	Mining Plan was approved by the Assistant	No.38
	been any increase in	Director, Geology & Mining, Virudhunagar	
	production after the EIA	vide letter Roc.No.KV1/519/2020 (G&M)	
	Notification, 1994 came into	dated 27.05.2022	
	force w.r.t. the highest		
	production achieved prior to	As area is being exploited for the first time	
	1994.	hence Year-wise production details since	
		1994 and before 1994 are not relevant or	
		applicable.	
		Proposed Production of Rough Stone &	
		Gravel for five years is proposed in the	
		EIA/EMP in chapter no-2.	

]	FOR Reply of Proposed Rough	stone &	Gravel Quar	ry Over ai	n Extent of 4	4.24.0 Ha
		Year	Rough stone (m ³)	Gravel (m ³)		
		Ι	96660	40494		
		II	99360	18060		
		III	99760	-		
		IV	99640	-		
		V	96885	-		
		Total	489305	96090		
2.	A copy of document in support	The min	e lease area	of 4.24.0	hectare in	
	of the fact that the Proponent	Kottaiyur	Village for R	ough stone	and Gravel	
	is the rightful lessee of the mine	quarry ap	proved by As	sistant Dir	ector, Dept.	
	should be given.	of Geolo	gy & Minin	g, Virudhu	ınagar vide	Annexur
		Roc.No.k	KV1/519/2020	0 (G&N	(I) dated	e-III
		27.05.202	22.			
3	All documents including	All the o	documents	i.e., Mi	ning Plan,	
	approved mine plan, EIA and	EIA and	d public heari	ng are com	patible with	
	public hearing should be	each othe	er in terms of	f ML area	production	
	compatible with one another in	levels, wa	aste generation	n and its n	nanagement	Annexure-
	terms of the mine lease area,	and mini	ng technology	y are comp	patible with	VI
	production levels, waste	one anoth	ner.			
	generation and its	The mini	ing plan of th	e project si	te has been	Chapter-
	management and mining	submitted	l to The Assis	tant Direct	or, Dept. of	II
	technology and should be in	Geology	& Mining, Vir	udhunagar		
	the name of the lessee.					
4	All corner coordinates of the	Details	of coordinat	es of all	corners of	Chapter-
	mine lease area,	proposed	1 mining lea	ase area	have been	2,
	superimposed on a High-	incorpor	ated in minin	g plan and	l Chapter 2	Fig no. 2.2
	Resolution Imagery/toposheet	of EIA/	EMP Report.			
	should be provided. Such an					Page. no.
	Imagery of the proposed area					42
	_					

	TOR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	4.24.0 Ha
	should clearly show the land		
	use and other ecological		
	features of the study area (core		
	and buffer zone).		
5	Information should be	Topo map as attached in Chapter-2	Chapter-
	provided in Survey of India		2,
	Topo sheet in 1:50,000 scale		Fig no. 2.4
	indicating geological map of		
	the area, important water		Page. no.
	bodies, streams and rivers and		44
	soil characteristics		
6.	Details about the land	Details about the land proposed for mining	
	proposed for mining activities	activities should be given Chapter 2.	Chapter-2
	should be given with		Page 43
	information as to whether		
	conforms to the land use policy		
	of the state; land diversion for		
	mining should have approval		
	from State land use board or		
	the concerned authority		
7	It should be clearly stated	Noted.	
	whether the proponent		
	company has a well laid down		
	Environment Policy approved		
	by its Board of Directors? If		
	so, it may be spelt out in the		
	EIA report with description of		
	the prescribed operating		
	process/procedures to bring		
	into focus any		
	infringement/deviation/		

Т	OR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	4.24.0 Ha
	violation of the environmental		
	or forest norms/ conditions?		
	The hierarchical system		
	or administrative order of the		
	Company to deal with the		
	environmental issues and for		
	ensuring compliance with the		
	EC conditions may also be		
	given. The system of reporting		
	of non- compliances /		
	violations of environmental		
	norms to the Board of		
	Directors of the Company		
	and/or shareholders or		
	stakeholders at large may also		
	be detailed in the EIA report.		
8	Issues relating to Mine	It is an open cast mining project. Blasting	Chapter-2,
	Safety, including subsidence	details are incorporated in chapter 2	
	study in case of underground		Page no.56
	mining and slope study in		
	case of open cast mining,		
	blasting study etc. should be		
	detailed. The proposed		
	safeguard measures in each		
	case should also be provided.		
9	The study area will comprise	Study area comprises of 10 km radius from	Chapter-2
	of 10 km zone around the	the mine lease boundary. Key Plan showing	
	mine lease from lease	core zone (ML area).	Fig no. 2.5
	periphery and the data		
	contained in the EIA such as		Page no.45

	TOR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	4.24.0 Ha
	waste generation etc should		
	be for the life of the mine /		
	lease period.		
10	Land use of the study	Land Use of the study area delineating forest	Chapter-
	area delineating forest area,	area, agricultural land, grazing land, wildlife	2, Table
	agricultural land, grazing land,	sanctuary, National park, migratory routes of	no. 2.4
	wildlife sanctuary, national	fauna, water bodies, human settlements	Page no.47
	park, migratory routes of	and other ecological features has been	0
	fauna, water bodies, human	prepared and incorporated in Chapter-3 of	
	settlements and other	EIA/ EMP Report.	
	ecological features should be		
	indicated.		
	Land use plan of the mine	There is no wildlife sanctuary and national	
	lease area should be prepared	park, migratory routes of fauna in the study	
	to encompass preoperational,	area.	
	operational and post		
	operational phases and		
	submitted. Impact, if any, of		
	change of land use should be		
	given.		
11	Details of the land for any Over	This area is covered 2.0 m Gravel & 1.0 m	Chapter-2,
	Burden Dumps outside the	Weathered Rock in this mine area. Gravel	
	mine lease, such as extent of	formation will be removed and transported to	Page no.53
	land area, distance from mine	the needy end user, only after obtaining	
	lease, its land use, R&R issues,	permission and paying necessary seigniorage	
	if any, should be given.	fees to the Government. The Gravel of the	
		lease area 96090 m ³ . Weathered Rock	
		formation will be removed and dumped	
		southwestern side of the lease area.	

TOR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4.24.0 Ha
12 A Certificate from the	Complied.
Competent Authority in the	The proposed mining lease area is not falling
State Forest Department	under forest land.
should be provided,	
confirming the	
involvement of forest land, if	
any, in the project area.	
In the event of any contrary	
claim by the Project	
Proponent regarding the status	
of forests, the site may be	
inspected by the State Forest	
Department along with the	
Regional Office of the	
Ministry to ascertain the status	
of forests, based on which, the	
Certificate in this regard as	
mentioned above be issued. In	
all such cases, it would be	
desirable for representative of	
the State Forest Department to	
assist the Expert Appraisal	
Committees.	

Т	OR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	4.24.0 Ha
13	Status of forestry clearance for	The proposed mining lease area is not	
	the broken-up area and virgin	falling under forest land.	
	forestland involved in the		
	Project including deposition of		
	net present value (NPV) and		
	compensatory afforestation		
	(CA) should be indicated. A		
	copy of the forestry clearance		
	should also be furnished.		
14	Implementation status of	Not Applicable.	
	recognition of forest rights		
	under the Scheduled Tribes	There is no involvement of forest land in the	
	and other Traditional Forest	project area.	
	Dwellers (Recognition of		
	Forest Rights) Act, 2006		
15	The vegetation in the RF / PF	Details of flora have been discussed in	Chapter-3
	areas in the study area, with	Chapter-3 of the EIA/EMP Report.	Pg No. 64
	necessary details, should be		
16	A study shall be got	There is a relatively poor sighting of animals	
	done to ascertain the impact	in the core and buffer areas of the mining	
	of the Mining Project on	lease.	
	wildlife of the study area and	No significant impact is anticipated	
	details furnished. Impact of		
	the project on the wildlife in		
	the surrounding and any other		
	protected area and accordingly		
	detailed mitigative measures		
	required, should be worked		
	out with cost implications and		

17 Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves/ (existing as well as proposed), if any, within 10km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the State Wildlife Department/Chief Details biological study (flora & fauna) of the study area [core zone and buffer zone (10 km radius of the geriphery of the mine lease] shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna merement in core of the fauna No flora & fauna listed in scheduled 1 have do the study area core and of conservation plan. However, all care will be taken for protection of flora & fauna, if any in the lease hold area. Chapter - 3 Pg No. 98
present. In case of any

Т	OR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	ł.24.0 Ha
	study area, the necessary plan		
	for their conservation should		
	be prepared in consultation		
	with State Forest and Wildlife		
	Department and details		
	furnished. Necessary		
	allocation of funds for		
	implementing the same should		
	be made as part of the project		
	cost.		
19	Proximity to Areas	The proposed mining lease area is not falling	
	declared as 'Critically	under critically polluted area.	
	Polluted' or the Project areas		
	likely to come under the		
	'Aravali Range', (attracting		
	court restrictions for mining		
	operations), should also be		
	indicated and where so		
	required, clearance		
	certifications from the		
	prescribed Authorities, such as		
	the SPCB or State Mining		
	Dept. Should be secured and		
	furnished to the effect that the		
	proposed mining activities		
	could be considered.		
20	Similarly, for coastal projects,	There is no Coastal Zone within 15km radius	
	A CRZ map duly authenticated	of the project site.	
	by one of the authorized		
	agencies Similarly, for coastal		
	projects, A CRZ map duly		

	on hepty of i toposed hough	Stone & draver Quarry over an Extent of 4.2-	4.0 Ha
	authenticated by one of the		
	authorized agencies		
	demarcating LTL, HTL, CRZ		
	area, location of the mine lease		
	w.r.t CRZ, coastal features		
	such as mangroves, if any,		
	should be furnished. (Note: The		
	Mining Projects falling under		
	CRZ would also need to obtain		
	approval of the concerned		
	Coastal Zone Management		
	Authority)		
21	R&R Plan/compensation	There is no Rehabilitation and resettlement is	
	details for the Project Affected	involved. Land classified as Patta land	
	People (PAP) should be		
	furnished. While preparing the		
	R&R Plan, the relevant		
	State/National Rehabilitation		
	& Resettlement Policy should		
	be kept in view. In respect of		
	SCs /STs and other weaker		
	sections of the society in the		
	study area, a need based		
	sample survey, family wise,		
	should be undertaken to assess		
	their requirements, and action		
	programmes prepared and		
	submitted accordingly,		
	integrating the sectoral		
	programmes of line		
	departments of the State		

TOR Reply of Propos	sed Rough stone & Gravel Quarry Over an Extent of 4	.24.0 Ha
Government. It may brought out when village located in the lease area will be so not. The issues rea shifting of Village their R&R and economic aspects so discussed in the report	be clearly ether the the mine shifted or elating to including 1 socio- should be rt.	
22One season (non-nand (Summer Season) monsoon) primary data on ambient at CPCB Notification water quality, noise and flora and fauna collected and the A other data so presented date-wise EIA and EMP RepoSite-specific the should also be The location monitoring stations such as to represent the study area and keeping in view dominant direction and loce sensitive receptors	monsoon) Baseline data collected during Pre-Monsoon on), (Post Season and Monsoon (June to August 2022) has been incorporated in EIA/EMP report. air quality The key plan of monitoring station has been discussed in Chapter-4. Locations of the a shall be AAQ and compiled e in the sensitive receptors and also that they port. represent whole of the study area. should be t whole of d justified the pre- downwind cation of s.	Chapter 3

Т	OR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	l.24.0 Ha
	should be at least one monitoring station within		
	500m of the mine lease in the		
	pre- dominant downwind		
	direction. The mineralogical		
	composition of PM10,		
	particularly for free silica,		
	should be given.		
23	Air quality modelling	Air quality modelling & Impact of Air	Chapter-4
	should be carried out for	quality will be furnished in Final EIA report	
	prediction of impact of the		
	project on the air quality of	Transportation of mineral during operation	
	the area. It should also take	of mines will be done by road & MDR-937	Page
	into account the impact of	through dumpers and the impact of	No.116
	movement of vehicles for	movement of vehicles are incorporated in	
	transportation of mineral.	EIA/EMP report.	
	The details of the model		
	used and input parameters	Air quality modelling & Impact of Air	
	used for modelling should be	quality will be furnished in Final EIA report	
	provided.		
	The air quality contours may		
	de snown on a location map		
	of the site location of		
	sensitive recentors if any		
	and the habitation. The wind		
	roses showing predominant		
	wind direction may also be		
	indicated on the map.		

,	TOR Reply of Proposed Rough stone & Gravel Quarry Over an Extent of 4.24.0 Ha			
24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.	Total water requirement: 4.5 KLD Dust Suppression: 1.5 KLD Domestic Purpose: 1.5 KLD Plantation :1.5 KLD Domestic Water will be sourced from nearby MCpuram which is about 0.45 Km-N of the area.	Chapter-2 Page no.59	
25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Not Applicable Water will be taken from nearby villages		
26	Descriptionofwaterconservationmeasuresproposed to be adopted in theProject should be given. Detailsofrainwaterharvestingproposed in the Project, if any,should be provided.	At the last stage of mining operation, almost complete area will be worked to restore the land to its optimum reclamation for future use as water reservoir.		
27	Impact of the project on the water quality, both surface and groundwater should be assessed and necessary safeguard measures, if any required, should be provided.	Impact of the project on the water quality & its mitigation measures has been incorporated in Chapter-4 of EIA/EMP report.	Chapter-4 Page No.117	
28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In	Maximum working depth: 41 m BGL The ground water table is reported as 60m below surface ground level in nearby wells of this area. Now, the present quarry shall be proposed above the water table and hence,	Chapter-2 Page no. 40	

Т	TOR Reply of Proposed Rough stone & Gravel Quarry Over an Extent of 4.24.0 Ha			
	case the working will intersect	quarrying may not affect the ground water So		
	groundwater table, a detailed	mine working will not be intersecting the		
	Hydro Geological Study	ground water table.		
	should be undertaken and			
	Report furnished. Necessary			
	permission from Central			
	Ground Water Authority for			
	working below ground water			
	and for pumping of ground			
	water should also be obtained			
	and copy furnished.			
29	Details of any stream,	There is no any stream crossing in the	Executive	
	seasonal or otherwise, passing	proposed quarry	Summary	
	through the lease area and			
	modification / diversion			
	proposed, if any, and the			
	impact of the same on			
	the hydrology should be			
	brought out.			
30	Information on site	Highest elevation: 86 AMSL	Chapter-2	
	elevation, working depth,	Depth: 60 m Below Ground Level	Table no.	
	groundwater table etc. Should		2.2	
	be provided both in AMSL		Page no. 40	
	and bgl. A schematic			
	diagram may also be provided			
	for the same.			
31	A time bound		Chapter-2	
	Progressive Greenbelt	Green Belt Development plan is proved	r · · · –	
	Development Plan shall be	given in Chapter 2.		
	prepared in a tabular form			
	(indicating the linear and			
	_			

TOR Reply of Proposed Rough stone & Gravel Quarry Over an Extent of 4.24.0 Ha			
quantitative cove	erage, plant		
species and time	frame) and		
submitted, keepin	g in mind,		
the same will	have to be		
executed up	front on		
commencement of	the project.		
Phase-wise plan of	of plantation		
and compensatory	afforestation		
should be char	rted clearly		
indicating the a	area to be		
covered under pla	antation and		
the species to be	planted. The		
plant species select	ted for green		
belt should ha	ave greater		
ecological value an	nd should be		
of good utility v	value to the		
local population w	rith emphasis		
on local and native	e species and		
the species which	are tolerant		
pollution			
Impact on loca	1 transport	Impact on local transport infrastructure due	Chapter-3
infrastructure du	e to the	to the project has been assessed. There shall	
Project should be	e indicated.	not be much impact on local transport. Traffic	
Projected increas	e in truck	density from the proposed mining activity has	
traffic as a result o	f the Project	been incorporated in EIA/EMP report.	Page
in the present ro	ad network		No.114
(including those	outside the		
Project area)	should be		
worked out,	indicating		
whether it is	capable of		
handling the increa	mental load.		

Т	OR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	l.24.0 Ha
	Arrangement for improving		
	the infrastructure, if		
	contemplated (including		
	action to be taken by other		
	agencies such as State		
	Government) should be		
	covered. Project proponent		
	shall conduct impact of		
	Transportation study as per		
	Indian Road Congress		
	Guidelines		
33	Details of the onsite shelter	Adequate infrastructure & other facilities shall	Chapter-2
	and facilities to be provided to	be provided to the mine workers.	
	the mine workers should be	Details are given in chapter-2 of EIA/EMP	
	included in the EIA report.		
24	Concentral next mining land		
34	Conceptual post mining land	Conceptual post mining land use and	Mining
	use and Reclamation and	Reclamation and restoration sectional plates	plates
	Restoration of mined out areas	are given in Mining Plan followed by Scheme	Annexure
	(with plans and with adequate	of mining.	VII
	number of sections) should be		
	given in the EIA report.		
35	Occupational Health impacts	Suitable measure will be adopted to minimize	Chapter-10
	of the Project should be	occupational health impacts of the project.	Pg No. 151
	anticipated and the proposed	The project shall have positive impact on	
	preventive measures spelt out	local environment. Details are given in	
	in detail. Details of pre-	chapter-10 of EIA/EMP.	
	placement medical		
	examination and periodical		
	medical examination schedules		
	snould be incorporated in the		
	EMP. The project in the		

Т	OR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	l.24.0 Ha
	mining area may be detailed		
36	Public health implications of	Suitable measure will be adopted to minimize	Chapter-10
	the Project and related	occupational health impacts of the project.	
	activities for the population in		Pg No. 143
	the impact zone should be		C
	systematically evaluated and		
	the proposed remedial		
	measures should be detailed		
	along with budgetary		
	allocations.		
37	Measures of socio-	Suitable measures has been discussed in	Chapter-4
	economic significance and	Chapter 4	
	influence to the local		Pg No. 116
	community proposed to be		
	provided by the Project		
	Proponent should be		
	indicated. As far as possible,		
	quantitative dimensions may		
	be given with time frames for		
	implementation.		
38	Detailed environmental	Environment Management Plan has been	Chapter-9
	management plan to mitigate	described in detail in Chapter-9 of the	Pg No. 145
	the environmental impacts	EIA/EMP Report.	
	which, should inter-alia include		
	the impacts of change of land		
	use, loss of agricultural and		
	grazing land, if any,		
	occupational health impacts		
	besides other impacts specific		
	to the proposed Project.		
39	Public hearing points raised	Public Hearing proceedings will be furnished	

I	TOR Reply of Proposed Rough	stone	& Gravel Quarry C)ver an Extent o	of 4.24.0 Ha
40	 and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and incorporated in the final EIA/EMP Report of the Project. Details of litigation pending against the project, if any, with direction /order passed 	in Fin Not aj	al EIA report pplicable tigation is pending ag	gainst the project :	in
	by any Court of Law against the project should be given.	any co	ourt.		
41	The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.	S. No 1 2	Description Fixed Asset Cost Operational Cost	Cost 8,25,000 1,09,67,765	Chapter-8 Pg No. 151
		EMP	Total Cost: 108,23,556/-	44,72,000/-	
42	Disaster Management Plan	Disast Assess Chapt	ter Management sment has been ir rer-7	and Risk ncorporated in	Chapter-7 Pg No. 136
43	Benefits of the project if the project is implemented should be spelt out. The benefits of the project shall clearly indicate environmental, social economic, employment potential etc.	Benef	its of the project has in	ncorporated	Chapter- 8 Pg No. 143
44	Besides the above, the below mentioned general points are				

	also to be followed:		
(2)	Executive Summary of the	Executive Summary of EIA Report is	
(u)	EIA/EMP report	given from page No.10-25	
(h)	All documents to be properly	Complied	
(0)	referenced with index	Complica	
	and continuous nage		
	numbering		
(a)	Where data are presented in	Complied	
(0)	the report especially in tables	Complied	
	the period in which the data		
	were collected and the sources		
	should be indicated		
(4)	Project Proponent shall	Complied	
(u)	enclose all the analysis/testing	Complied	
	reports of water air soil noise		
	etc using the MoFF & CC		
	NABL accredited laboratories		
	All the original		
	analysis/testing reports should		
	be available during appraisal of		
	the project.		
(e)	Where the documents	Complied	
	provided are in a language		
	other than English, an English		
	translation should be provided.		
(f)	The Questionnaire for	The complete questionnaire has been	
	environmental appraisal of	prepared	
	mining projects as devised		
	earlier by the Ministry shall		
	also be filled and submitted.		
(g)	While preparing the EIA	The EIA report has been prepared and	

Т	OR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4.24.0 Ha
	report, the instructions	complying with the circular issued by MoEF
	for the proponents and	vide O.M. No. J-11013/41/2006-IA. II(I)
	instructions for the consultants	dated 4th August 2009.
	issued by MoEF vide	
	O.M. No. J-	
	11013/41/2006-IA. II(I)	
	dated4th August 2009, which	
	are available on the website of	
	this Ministry, should also be	
	followed.	
(h)	Changes, if any made in the	There are no changes in prepared EIA as per
	basic scope and project	submitted Form-1 & PFR
	parameters (as submitted in	
	Form-I and the PFR for	
	securing the TOR) should be	
	brought to the attention of	
	MoEF with reasons for such	
	changes and permission	
	should be sought, as the TOR	
	may also have to be altered.	
	Post Public Hearing changes	
	in structure and content of the	
	draft EIA/EMP (other than	
	modifications arising out of	
	the P.H. process) will entail	
	conducting the PH again with	
	the revised documentation	
(i)	As per the circular no.	Will be complied after grant
	J- 11011/618/2010-IA. II(I)	environment clearance from SEIAA,
	dated 30.5.2012, report on	Tamilnadu
	the status of compliance	

Т	OR Reply of Proposed Rough	stone & Gravel Quarry Over an Extent of 4	4.24.0 Ha
	of the conditions stipulated in		
	the environment clearance for		
	the existing operations of the		
	project by the Regional Office		
	of Ministry of Environment &		
	Forests, if applicable.		
(j)	The EIA report should also		
	include (i) surface plan of the		
	area indicating contours of	All Sectional Plates of Quarry is enclosed in	
	main topographic features,	Mining Plan.	
	drainage and mining area, (ii)		
	geological maps and sections		
	(iii) sections of mine pit and		
	external dumps, if any clearly		
	showing the features of the		
	adjoining area.		

Additional TOR by SEAC

S.No.	Condition	Compliance
1.	The PP shall include the letter received from DFO	Agreed to comply.
	concerned stating the proximity details of Reserve	
	Forests, Protected Areas, Sanctuaries, Tiger reserve	
	etc., upto a radius of 25 km from the proposed site.	
2.	As the habitations are located at a distance of 500	Agreed to comply
	m, the PP shall provide conceptual design for	
	carrying out the NONEL initiation based	
	controlled blasting operation involving muffle	
	blasting in the proposed quarry such that the blast-	
	induced ground vibrations are controlled within the	
	permissible limits as stipulated by the DGMS as	
	well as no fly rock travel beyond 30 m from the	
	blast site.	
3.	In the case of proposed lease in an existing (or old)	Will be furnished.
	quarry where the benches are nonexistent (or)	
	partially formed critical of the bench geometry	
	approved in the Mining Plan, the Project	
	Proponent (PP) shall prepare and submit an	
	'Action Plan' for carrying out the realignment of	
	the "highwall' benches in the existing quarried pit	
	and the proposed pit indicating the possible	
	stabilizing measures to ensure slope stability as the	
	depth of the planned working is extended beyond	
	30 m below ground level which shall be submitted	
	as a part of the revised Mining Plan, during the	
	time of appraisal for obtaining the EC.	

4.	The PP shall furnish the affidavit stating that the	The PP will furnish the affidavit stating
	blasting operation in the proposed quarry is carried	that the blasting operation in the
	out by the statutory competent person as per the	proposed quarry is carried out by the
	MMR 1961 such as blaster, mining mate, mine	statutory competent person as per the
	foreman, II/I Class mines manager appointed by	MMR 1961 such as blaster, mining
	the proponent.	mate, mine foreman, II/I Class mines
		manager appointed by the proponent
5.	The EIA Coordinator shall obtain and furnish the	Complied.
	details of quarry/quarries operated by the	The photographs are attached in EIA
	proponent in the past, either in the same location	report.
	or elsewhere in the State with video and	
	Photographic evidence.	
6.	If the proponent has already carried out the mining	
	activity in the proposed mining lease area after	
	15.01.2016, then the proponent shall furnish the	
	following details from AD/DD, mines,	
	 a. What was the period of the operation and stoppage of the earlier mines with the last work permit issued by the AD/DD mines? b. Quantity of minerals mines out. c. Highest production achieved in any one year. d. Details of approved depth of mining. e. Actual depth of the mining achieved earlier. f. Name of the person already mined in that leases area. g. If EC and CTO already obtained, the copy of the same shall be submitted. 	Earlier operated period from 2014 to 2019 on the Survey Number 11/2A, 2C, 2D, 2E, 2F, 2G, 2I 8 m Thiru.S.L.Muniyasamy Agreed to comply
	Whether the mining was carried out as per the	
	approved mine plan (or EC if issued) with	
	supulated benches.	

7.	All corner coordinates of the mine lease area,	Complied.
	superimposed on a High Resolution Imagery/Topo	All corners with coordinates of the
	sheet, topographic sheet, geomorphology, lithology	mine lease area has attached with EIA
	and geology of the mining lease area should be	report in chapter 2
	provided. Such an Imagery of the proposed area	
	should clearly show the land use and other	
	ecological feature of the study area (core and buffer	
	zone)	
8.	The Project Proponent shall carry out Drone video	Drone video survey will be submitted
	survey covering survey covering the cluster, green	in final EIA report.
	belt, fencing etc.,	
9.	The Project Proponent shall furnish photographs of	Complied.
	adequate fencing, green belt along periphery	The photographs of fencing and green
	including replantation of existing trees & safety	belt attached as per SEAC
	distance between the adjacent quarries & water	recommendation.
	bodies nearby provided as per the approved mining	
	plan.	
10.	The Project Proponent shall provide the details of	The details of Geological reserves,
	mineral reserves and mineable reserves, planned	Mineable reserves and Yearwise
	production capacity, proposed working	production reserves are tabulated in
	methodology with justification, the anticipated	Chapter 2. The mining methodology
	impacts of the mining operations on the	and impacts are follow as on
	surrounding environment and the remedial	prescribed norms by Government.
	measures for the same	
11.	The PP shall provide the Organization chart	Complied.
	indicating the appointment of various statutory	Manpower requirements table
	officials and other competent persons to be	attached in EIA report chapter 2
	appointed as per the provisions of Mines Act'1952	
	and the MMR, 1961 for carrying out the quarrying	
	operations scientifically and systematically in order	

	to ensure safety and to protect the environment.	
12.	The PP shall conduct the hydro-geological study	Hydro geological study report will be
	considering the contour map of the water table	submitted along final EIA report.
	detailing the number of ground water pumping &	
	open wells, and surface Water bodies such as	
	rivers, tanks, canals, ponds etc., within 1km	
	(radius) along with the collected water level data	
	for both monsoon and non-monsoon seasons from	
	the PWD/TWAD so as to assess the impacts on	
	the wells due to mining activity. Based on actual	
	monitored data, it may clearly be shown whether	
	working will intersect groundwater. Necessary data	
	and documentation in this regard may be provided.	
13.	The proponent shall furnish the baseline data for	The proponent has furnished the
	the environmental and ecological parameters with	baseline data for the environmental
	regard to surface water/ground water quality, air	and ecological parameters with regard
	quality, soil quality & flora/fauna including	to surface water/ground water quality,
	traffic/vehicular movement study.	air quality, soil quality & flora/fauna
		including traffic/vehicular movement
		study details attached in EIA report
		chapter 3
14.	The Proponent shall carry out the Cumulative	Noted.
	impact study due to mining operations carried out	Agree to comply.
	in the quarry specifically with reference to the	
	specific environment in terms of soil health,	
	biodiversity, air pollution, water pollution, climate	
	change and flood control & health impacts.	
	Accordingly, the Environment Management plan	
	should be prepared keeping the concerned quarry	
	and the surrounding habitations in the mind.	

15.	Rainwater harvesting management with recharging	Noted.
	details along with water balance (both monsoon &	Agree to comply.
	non-monsoon) be submitted.	
16.	Issues relating to Mine safety, including slope	Will be furnished.
	geometry in case of Granite quarrying, blasting	
	parameters etc. should be detailed. The proposed	
	safeguard measures in each case should also be	
	provided.	
17.	Land use of the study area delineating forest area,	Current land use of the study area has
	agricultural land, grazing land, wildlife sanctuary,	attached in EIA report chapter 3.
	national park, migratory routes of fauna, water	Operational and post operational land
	bodies, human settlements and other ecological	use will be submitted.
	features should be indicated. Land use plan of the	
	mine lease area should be prepared to encompass	
	preoperational, operational and post operational	
	phases and submitted. Impact, if any, of change of	
	land use should be given	
18.	Details of the land for storage of	The overburden is in the form of top
	Overburden/Waste dumb (or) Rejects outside the	soil and weathered rock formation. It
	mine lease, such as extent of land area, distance	will be quarried for filling purposes to
	from mine lease, its land use, R&R issues, if any,	nearby end users and part of soil will
	should be provided.	be preserved all along the boundary as
		barrier for afforestation.
19.	Since non-saleable waste /OB/intermediate waste	It is a rough stone quarry project so
	etc. is huge in the granite quarry, the proponent	the production of waste will be
	shall provide the details pertaining to management	minimum and it is used for filling and
	of the above material with Yearwise utilization and	levelling purposes.
	average moving inventory be submitted.	
20.	Proximity to Areas declared as 'Critically Polluted'	Noted
	(or) the Project areas which attracts the court	
	restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered	
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21.	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	The ultimate pit at the end of the mining operation will be used for rainwater storage, the stored water will be used for green belt development and further the stored water will be used for domestic purposes (other than drinking) after proper treatment.
22.	Impact on local transport infrastructure due to the Project should be indicated.	Traffic impact assessment has given in EIA report chapter 3.
23.	A tree survey study shall be carried out (nos., name of the species, diameter, etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.	No tree species were found inside the project site. only few shrubs and thorny bushes were present. Tree survey study details given in EIA report chapter 3.
24.	A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.	Noted. The mine plan and mine closure plan has been approved by the Assistant Director, Department of Mining and Geology, Virudhunagar District
25.	Public hearing points raised and commitments of the PP on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in	Noted and will be complied in Final EIA report.

	the final EIA/EMP Report of the Project and to be	
	submitted to SEIAA/SEAC with regard to the	
	Office Memorandum of MoEF & CC accordingly.	
26.	The Public hearing advertisement shall be	Noted.
	published in on major National daily and one most	Agree to comply.
	circulated vernacular daily	
27.	The PP shall produce/display the EIA report,	Noted
	Executive summary and other related information	
	with respect to public hearing Tamil Language	
	also.	
28.	As a part of the study of flora and fauna around the	Noted.
	vicinity of the proposed site, the EIA coordinator	Agree to comply
	shall strive to educate the local students on the	
	importance of preserving local flora and fauna by	
	involving them in the study, wherever possible.	
29.	The purpose of Green belt around the project is to	Noted.
	capture the fugitive emissions, carbon sequestration	Agree to comply
	and to attenuate the noise generated, in addition to	
	improving the aesthetics. A wide range of	
	indigenous plant species should be planted as given	
	in the appendix-I in consultation with the DFO,	
	State Agriculture University and local	
	school/college authorities. The plant species with	
	dense/moderate canopy of native origin should be	
	chosen. Species of small/medium/tall trees	
	alternating with shrubs should be planted in a	
	mixed manner.	
30.	Taller/one year old Saplings raised in appropriate	The green belt plan enclosed with
	size of bags, preferably eco-friendly bags should be	mining plates in Annexure VII
	planted as per the advice of local forest authorities/	
	botanist/Horticulturist with regard to site specific	

	choices. The proponent shall earmark the greenbelt	
	arca with GPS coordinates all along the boundary	
	of the project site with at least 3 meter wide and in	
	between blocks in an organized manner.	
31.	A Disaster management Plan shall be prepared and	Disaster management plan has
	included in the EIA/EMP Report for the complete	prepared and enclosed in Chapter 7.
	life of the proposed quarry (or) till the end of the	
	lease period.	
32.	A Risk Assessment and management Plan shall be	Risk assessment and management
	prepared and included in the EIA/EMP Report fir	plan has prepared and enclosed in
	the complete life of the proposed quarry (or) till the	chapter 7.
	end of the lease period.	
33.	Occupational Health impacts of the Project should	Occupational Health impacts of the
	be anticipated and the proposed preventive	project has prepared and incorporated
	measures spelt out in detail. Details of pre-	in Environmental management plan.
	placement medical examination and periodical	
	medical examination schedules should be	
	incorporated in the EMP. The project specific	
	occupational health mitigation measures with	
	required facilities proposed in the mining area may	
	be detailed.	
34.	Public health implications of the Project and	Suitable measure will be adopted to
	related activities for the population in the impact	minimize occupational health impacts
	zone should be systematically evaluated and the	of the project.
	proposed remedial measures should be detailed	
	along with budgetary allocations.	
35.	The Socio-economic studies should be carried out	The socio-economic study has been
	within a 5km buffer zone from the mining activity.	discussed in chapter 3.
	Measures of socio-economic significance and	
	influence to the local community proposed to be	
	provided by the Project Proponent should be	

	indicated. As far as possible, quantitative	
	dimensions may be given with time frames for	
	implementation.	
36.	Details of litigation pending against the project, if	No. litigation is pending against the
	any, with direction /order passed by any Court of	project in any court.
	Law against the Project should be given	
37.	Benefits of the Project if the Project is implemented	Benefits of the project has
	should be spelt out. The benefits of the Project shall	incorporated in EIA report chapter 8
	clearly indicate environmental, social, economic,	
	employment potential, etc.,	
38.	If any quarrying operations were caried out in the	Agree to comply.
	proposed quarrying site for which now the EC is	The certified compliance report will
	sought, the Project Proponent shall furnish the	be submitted in Final EIA report.
	detailed compliance to EC conditions given in the	
	previous EC with the site photographs which shall	
	duly be certified by MoEF&CC, Regional Office,	
	Chennai (or) the concerned DEE/TNPCB	
39.	concealing any factual information or submission	Noted.
	of false/fabricated data and failure to comply with	
	any of the Condition mentioned above may result	
	in withdrawal of this Terms of conditions besides	
	attracting penal provisions in the Environment	
	(Protection) Act, 1986	

1	Restricting the ultimate depth of mining upto	Noted
	36m BGL and quantity of 450260 cum of Rough	
	stone & 96090 cu.m of Gravel are permitted for	Agreed to comply.
	mining over a period of five years considering the	The revised mining plates are attached
	environmental impacts due to the mining, safety	with EIA/EMP report.
	precautionary measures of the working personnel	
	and following the principle of the sustainable	
	mining.	
2		Noted
	Cluster Management Committee, which must	All the proponents in the cluster is
	include all the proponents in the cluster as	discussed in Chapter-2, Page number-
	members including the existing as well as	35
	proposed quarry.	
3	The members must coordinate among themselves	Green belt development, water
	for the effective implementation of EMP as	sprinkling, tree plantation is discussed
	committed including Green Belt Development,	in chapter-2, Page number-58
	Water sprinkling, tree plantation, blasting etc.,	
4	The List of members of the committee formed	Agreed to comply.
-	shall be submitted to AD/Mines before the	
	execution of mining lease and the same shall be	
	undated every year to the AD/Mines	
5	Detailed Operational Plan must be submitted	A greed to comply
5	which must include the blacting frequency with	Agreed to compry.
	which must include the Diasting frequency with	
	respect to the nearby quarry situated in the	It will be furnished in final EIA report.
	cluster, the usage of naul roads by the individual	
	quarry in the form of route map and network.	
6	The committee shall deliberate on risk	Risk management plan is discussed in
	management plan pertaining to the cluster in a	Chapter-7, page number-135
	holistic manner especially during natural	

Additional TOR by SEIAA

	calamities like intense rain and the mitigation	
	measures considering the inundation of the	
	cluster and evacuation plan	
7	The Cluster Management Committee shall form	Agreed to comply.
	Environmental Policy to practice sustainable	
	mining in a scientific and systematic manner in	It will be furnished in final EIA report.
	accordance with the law. The role played by the	
	committee in implementing the environmental	
	policy devised shall be given in detail.	
8	The committee shall furnish action plan	Agreed to comply.
	regarding the restoration strategy with respect to	
	the individual quarry falling under the cluster in a	It will be furnished in final EIA report.
	holistic manner.	
9	The committee shall furnish the Emergency	Emergency management plan is
	Management plan within the cluster	discusssed in Chapter-7, page number-
	Wanagement plan within the cluster.	139
10	The committee shall deliberate on the health of	Health of workers and staff is
	the workers/staff involved in the mining as well	discussed in Chapter-9 Page number-
	as the health of the public.	153
11	Detailed study shall be carried out in regard to	The biodiversity has been studied and
	impact of mining around the proposed mine lease	discussed in chapter 3.
	area covering the entire mine lease period as per	The soil erosion map 5km surrounding
	precise area communication order issued from	the project site has been given in
	reputed research institutions on the following.	chapter 3.
	a) Soil health & bio-diversity	The detailed study will be carried out
	b) Climate change leading to Droughts,	and will be enclosed in the Draft EIA
	Floods etc.,	Report.
	c) Pollution leading to release Greenhouse	
	gases (GHG), rise in Temperature &	
	Livelihood of the local people.	

	d) Possibilities of water containment and	
	impact on aquatic ecosystem health.	
	e) Agriculture, Forestry & Traditional	
	practices.	
	f) Hydrothermal/Geothermal effects due to	
	destruction in the Environment.	
	g) Bio-geochemical processes and its foot	
	prints including environmental stress	
	Sediment geochemistry in the surface streams.	
12	The committee shall furnish an action plan to	Agreed to comply.
	achieve sustainable development goals with	
	reference to water, sanitation & safety.	It will be furnished in final EIA report.
13	The committee shall furnish the fire safety and	Fire safety and evacuation plan is
	evacuation plan in the case of fire accidents	discussed in chapter-7
14	The measures taken to control Noise, Air, water,	Measures taken to control Noise, Air,
	Dust control and steps adopted to efficiently	water, Dust control is discussed in
	utilise the energy shall be furnished.	Chapter-4
15	Details of type of vegetation no.of trees & shrubs	Type of vegetation no.of trees & shrubs
	within the proposed mining area and. If so,	is discussed in Chapter-3 page number-
	transplantation of such vegetations all along the	100
	boundary of the proposed mining area shall	
	committed mentioned in EMP.	
16	Impact on surrounding agricultural fields around	There is no agricultural fields around
	the proposed mining area.	the proposed mining area
17	Erosion control macrures	Agreed to comply.
	ETOSION CONTOL MEASURES	Will be furnished in final EIA.
18	Impact on soil flora & vegetation around the	Impact on soil flora & vegetation
	nipaci on son nora & vegetation around the	around the project site discussed in
	project site	Chapter-4 page number-110
19	Detailed study shall be carried out regard to	The detailed study will be carried out

	impact of mining around the proposed mine lease	and will be furnished in the Final EIA
	area on the nearby villages, Water-bodies/Rivers,	Report.
	& any ecological fragile areas.	
20	The project proponent shall furnish VAO	Obtained and same has been attached
	Certificate with reference to 300m radius regard to	as Annexure.
	approved habitations, schools, Archaeological	
	structures etc.	
21	As per the MoEF& CC office memorandum	Noted and public hearing details will
	F.No.22-65/2017-IA.III dated: 30.09.2020 and	be included along with final EIA
	20.10.2020 the proponent shall address the	report.
	concerns raised during the public consultation and	
	all the activities proposed shall be part of the	
	Environment Management Plan.	
22	The Environmental Impact Assessment shall	Noted and will be complied in Final
	study in detail the carbon emission and also	EIA report.
	suggest the measures to mitigate carbon emission	
	including development of carbon sinks, and	
	temperature reduction including control of other	
	emission and climate mitigation activities.	
23	The Environmental Impact Assessment should	The biodiversity has been studied and
	study the biodiversity, the natural ecosystem, the	discussed in chapter 3 – Pg No. 113.
	soil micro flora, fauna and soil seed banks and	
	suggest measures to maintain the natural	
	Ecosystem.	
24	Action should specifically suggest for sustainable	Noted.
	management of the area and restoration of	Agree to comply.
	ecosystem for flow of goods and services.	
25	The project proponent shall study impact on fish	There is no water bodies within 1km
	habitats and the food WEB/food chain in the	radius, The seasonal pond located 50m
	water body and reservoir.	south from the project site. Water gets

	<i>3 3 3 3 3 3 3 3 3 3</i>
	Hence there won't be much impact on
	fish habitats and the food WEB/ food
	chain in the water body and Reservoir.
26	The soil erosion map 5km surrounding
	the project site has been given in
The Terms of Reference should specifically	chapter 3.
study impact on soil health soil erosion the	The soil samples have been collected
soil physical chemical components and	surrounding the project site and
migrahial components	physical, chemical components and
interoblar components.	microbial components study has been
	carried out and the results are
	tabulated in chapter 3
27 The Environmental Impact Assessment should	The biological environment impacts,
study impact on forest, vegetation, endemic,	and its mitigation measures has been
vulnerable and endangered indigenous flora and	given in Chapter 4
fauna.	
28 The Environmental Impact Assessment should	There is no existing trees in the project
study impact on standing trees and the existing	site and surrounding the project site.
trees should be numbered and action suggested	Only thorny shrubs were present.
for protection.	
29 The Environmental Impact Assessment should	The water environment impacts and its
study on wetlands, water bodies, river streams,	mitigation measures has been given in
lakes and farmer sites.	Chapter 4
30 The EIA should hold detailed study on EMP	The EMP details has been given in
with budget for Green belt development and	Chapter 8
mine closure plan including disaster management	
plan.	
31 The EIA should study impact on climate change,	Noted and will be complied in Final
temperature rise, pollution and above soil carbon	EIA report.

	stock.	
32	The EIA should study impact on protected areas, Reserve forests, National parks, Corridors and Wildlife pathways, near project site.	There is no Reserve Forest within 1 km radius of the Project Site. Hence our project will not cause any damage to reserve forest. Also, we have received letter from DFO indicating the nearest reserve forest and attached with Annexures. There is no protected areas, National Parks, Corridors and Wildlife pathways near project site.
33	The PP shall study and furnish the impact on plantations in adjoining Patta lands, Horticulture, Agriculture and livestock.	There is no plantation surrounding 500m from project site. Hence there won't be any impact in adjoining patta lands, Horticulture, Agriculture and livestock.
34	The PP shall study and furnish the details on potential fragmentation impact of natural environment, by the activities.	Noted and will be complied in Final EIA report.
35	The PP shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site and archaeological sites possible landform changes visual and aesthetic impacts	Noted. Agree to comply.
36	The PP shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impact of plastic & microplastic on aquatic environment	There will not be any plastic and microplastic pollution due to mining activity. Also, we ensure that we won't use any single use plastics in the

	and fresh water systems due to activities,	project site.
	contemplated during mining may be investigated	
	and reported.	
37	The PP shall detailed study on impact of mining	There is no Reserve Forest within 1 km
	on Reserve forests free ranging wildlife.	radius of the Project Site. Hence our
		project will not cause any damage to
		reserve forest. Also, we have received
		letter from DFO indicating the nearest
		reserve forest and attached with
		Annexures.
38	Hydro-geological study considering the contour	The hydro-geological study will be
	map of the water table detailing the number of	conducted and submitted in final EIA
	ground water pumping & open wells, and surface	report.
	water bodies such as rivers, tanks, canals, ponds	
	etc., within 1 km (radius) so as to assess the	
	impacts on the nearby waterbodies due to mining	
	activity. Based on actual monitored data and	
	documentation in this regard may be provided,	
	covering the entire mine lease period.	
39	To furnish disaster management plan and disaster	Disaster Management and Risk
	mitigation measures in regard to all aspects to	Assessment has be incorporated in
	avoid/reduce vulnerability to hazard & to cope	Chapter-7
	with disaster/untoward accidents in & around	
	the proposed mine lease area due to the proposed	
	method of mining activity & its related activities	
	covering the entire mine lease period as per	
	precise area communication order issued.	
40	To furnish risk assessment and management plan	A Risk Assessment and management
	including anticipated vulnerabilities during	Plan will be prepared and included in
	operational and post operational phases of mining.	the final EIA/EMP Report.
L		1

41	Detailed mine closure plan covering the entire	Mine closure plan has been attached
	mine lease period as per precise area	along with mining plates as Annexure
	communication order issued.	VI.
42	Detailed Environment Management plan along	Environment Management Plan has
	with adaptation, mitigation & remedial strategies	been described in detail in Chapter-10
	covering the entire mine lease period as per	of the Draft EIA/EMP Report.
	precise area communication order issued.	

ANNEXURE-II

PRECISE AREA COMMUNICATION LETTER

ந.க. எண்: கேவி1/519/2020-கனிமம்,

மாவட்ட ஆட்சியர் அலுவலகம் விருதுநகர்.

நாள்: 25.02.2021

குறிப்பாணை

கனிமங்களும் குவாரிகளும் - விருதுநகர் மாவட்டம்-பொருள்: மற்றும் வட்டம் - கோட்டையூர் கிராமம் பட்டா எண்.1629 புலஎண்கள்.10/12 (0.58.0)பட்டா எண்.1493 புலஎண்கள்.11/2A (0.27.0), 11/2C (0.24.5), 11/2D (0.24.5) 11/2E (0.52.0) 11/2F (0.23.0), 11/2G(P) (0.62.25) 11/2H(P) (0.45.0), 11/2I(P) (0.46.25) மற்றும் பட்டா எண்.1608 புலஎண்கள்.11/2J2B (0.24.5), 15/2B1 (0.37.0) ஹெக்டோ பரப்பு மொத்தம் 4.24.0 நிலத்தில் 5 வருடங்களுக்கு உடைக்கல் மற்றும் கிராவல் குவாரி உரிமம் வழங்கக்கோரியுள்ளது - சுரங்கத்திட்டம் மற்றும் மாநில அளவிலான சுற்றுச்சூழல் பாதுகாப்பு தாக்க மதிப்பீட்டு இசைவினைப்பெற்று ஆணையத்தின் சமர்ப்பிக்க கோருவது - தொடர்பாக.

பார்வை:

- திரு.சு.மாரிமுத்து த/பெ.சுந்தரம், 4/117, மேலத்தெரு, காடனேரி கிராமம், அ.துலுக்கப்பட்டி அஞ்சல், வத்திராயிருப்பு வட்டம், விருதுநகர் மாவட்டம் என்பவரது மனு நாள்:21.09.2020.
- இவ்வலுவலக கடிதம் எண் ந.க.கேவி1/519/2020 நாள்:23.09.2020
- அருப்புக்கோட்டை வருவாய் கோட்டாட்சியர் கடிதஎண்.ந.க. அ2/6083/2020 நாள்:26.11.2020.
- துணை இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை அவர்களின் புலத்தணிக்கை அறிக்கை நாள் : 05.01.2021
- 5. தொடர்புடைய ஆவணங்கள்.

விருதுநகர் மாவட்டம், வத்திராயிருப்பு வட்டம், 4/117, மேலத்தெரு, காடனேரி கிராமம், அ.துலுக்கப்பட்டி அஞ்சல் என்ற முகவரியைச் சேர்ந்த திரு.சு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண்.1607ல் புலஎண்கள்.10/3 (0.22.5), 10/6 (0.09.5), 10/7 (0.30.0) பட்டா எண்.1573 புலஎண்.10/4 (0.35.5) பட்டா எண்.1629 புலஎண்.10/12 (0.58.0) பட்டா எண்.1493 புலஎண்கள்.11/2A (0.27.0), 11/2C (0.24.5), 11/2D (0.24.5) 11/2E (0.52.0) 11/2F (0.23.0), 11/2G(P) (0.62.25) 11/2H(P) (0.45.0), 11/2I(P)

(0.46.25) மற்றும் பட்டா எண்.1608 புலஎண்கள்.11/2J2B (0.24.5), 15/2B1 (0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு நிலத்தில் பத்து வருடங்களுக்கு உடைகல், மற்றும் கிராவல் குவாரி உரிமம் வழங்கக் கோரி பார்வை 1-ல் காணும் மனுவில் விண்ணப்பம் செய்துள்ளார்.

அருப்புக்கோட்டை வருவாய் கோட்டாட்சியர் மற்றும் துணை இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை ஆகியோர் கீழ்காணும் நிபந்தனைகளுக்குட்பட்டு பரிந்துரை செய்துள்ளனர்.

- அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீ பாதுகாப்பு இடைவெளி விடவேண்டும்.
- பலஎண்.10/8-ல் செல்லும் ஓடை மற்றும் வண்டிப்பாதைக்கு பாதுகாப்பு இடைவெளி விடவேண்டும்.
- புலஎண்.11/2H-ல் உள்ள கோவிலுக்கு பாதுகாப்பு இடைவெளி விடவேண்டும்.
- குவாரி கழிவுகளை குத்தகை உரிமம் வழங்கப்படும் பகுதிக்கு உள்ளேயே இருப்பு வைக்க வேண்டும்.
- 5) வெடிமருந்தினை விதிகளின்படி பாதிப்பு ஏற்படா வண்ணம் பயன்படுத்த வேண்டும்.
- 6) சுரங்கத்திட்டம் மற்றும் சுற்றுச்சூழல் தடையில்லாச் சான்று குத்தகை உரிமம் வழங்குவதற்கு முன் சமாப்பிக்க வேண்டும்.

மேற்கூறிய அலுவலர்களின் பரிந்துரையினை ஏற்றும் நிபந்தனைகளுக்கு உட்பட்டும், விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் புலஎண்.10/8-ல் செல்லும் ஓடை மற்றும் வண்டிப்பாதைக்கு போதிய பாதுகாப்பு இடைவெளி தூரம் கடைப்பிடிக்கப்படவேண்டிய நிலையில் பின்வரும் புலஎண்கள்.10/3 (0.22.5), 10/6 (0.09.5), 10/7 (0.30.0) 10/4 (0.35.5)-ல் 0.97.5 ஹெக்டேர் பரப்பு நீக்கம் செய்து இதர பட்டா எண்.1629 புலஎண்கள்.10/12 (0.58.0) பட்டா எண்.1493 புலஎண்கள்.11/2A (0.27.0), 11/2C (0.24.5), 11/2D (0.24.5) 11/2E (0.52.0) 11/2F (0.23.0), 11/2G(P) (0.62.25) 11/2H(P) (0.45.0), 11/2I(P) (0.46.25) மற்றும் பட்டா எண்.1608 புலஎண்கள்.11/2J2B (0.24.5), 15/2B1 (0.37.0) மொத்தம் 4.24.0 ஹெக்டேர் பரப்பு நிலத்திற்கு மட்டும் 1959ம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள் விதி எண்: 19 மற்றும் 20-ன்படி ஐந்து வருடகாலத்திற்கு உடைகல், மற்றும் கிராவல் குவாரி பணி செய்ய தகுதி வாய்ந்த நிலப்பரப்பாக கருதப்படுகிறது.

மேலும் தமிழ்நாடு விதி சிறுகனிம சலுகை விதிகள்-1959 எண்:41ன்படி குவாரி பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்கத் திட்டத்தினை (Mining Plan) 90 தினங்களுக்குள் சமாப்பிக்குமாறும், விதி எண்: 42-ன்படி மாநில அளவிலான சுற்றுச்சூழல் பாதுகாப்பு தாக்க மதிப்பீட்டு ஆணையத்தின் (State Level Environmental Impact Assessment Authority Clearance) இசைவினைப் பெற்று சமர்ப்பிக்குமாறும் மனுதாரர் கேட்டுக் கொள்ளப்படுகிறார்.

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துணை இயக்குநர் புவியியல் மற்றும் ரங்கத்துறை விருதுநகர்

பெறுநர் திரு.சு.மாரிமுத்து த/பெ.சுந்தரம், 4/117, மேலத்தெரு, காடனேரி கிராமம், அ.துலுக்கப்பட்டி அஞ்சல், வத்திராயிருப்பு வட்டம்.

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ANNEXURE-III MINING PLAN APPROVED LETTER

From

Thiru.T.Selvasekar, M.Sc., Assistant Director, Geology and Mining, Virudhunagar. **To** Thiru.S.Marimuthu, S/o.S.Sundaram, D.No: 4/117, Melatheru, Kadaneri Village, A.Thulukappat Post, Wathraytiruppu Taluk, Virudhunagar District.

Roc.No: KV1/519/2020, Dated: 27.05.2022.

Sir,

- Sub: Mines and Minerals Minor Mineral Virudhunagar District & Taluk Kottaiyur Village Patta Land S.F.Nos: 10/12 (0.58.00), 11/2A (0.27.00), 11/2C (0.24.50), 11/2D (0.24.50), 11/2E (0.52.00), 11/2F (0.23.00), 11/2G (P) (0.62.25), 11/2H (P) (0.45.00), 11/2I (P) (0.46.25), 11/2J2B (0.24.50), 15/2B1 (0.37.00) Extent 4.24.00 Hectares Quarry lease application preferred by Thiru.S.Marimuthu for quarrying Rough Stone and Gravel Approval of Mining Plan Regarding.
- Ref: 1. Quarry lease application received from Thiru.S.Marimuthu dated: 21.09.2020.
 - The Assistant Director, Geology and Mining, Virudhunagar Rc.No.KV1/519/2020, Dated: 25.02.2021.
 - 3. Thiru.S.Marimuthu letter, dated: 24.05.2021.

Thiru.S.Marimuthu has preferred an application for the grant of quarrying lease to quarry Rough Stone and Gravel over an extent of 4.24.00 Hectares of Patta Land in S.F.Nos: 10/12 (0.58.00), 11/2A(0.27.00), 11/2C (0.24.50), 11/2D (0.24.50), 11/2E (0.52.00), 11/2F(0.23.00), 11/2G (P) (0.62.25), 11/2H (P) (0.45.00), 11/2I (P) (0.46.25), 11/2J2B (0.24.50), 15/2B1 (0.37.00) of Kottaiyur Village, Virudhunagar Taluk and District for a period of 5 (Five) Years Under Rule 19 of Tamil Nadu Minor Mineral Concession Rules 1959.

2) The application was examined and consented to grant lease to quarrying Rough Stone and Gravel over an extent of 4.24.00 Hectares of Patta Land in S.F.Nos: 10/12 (0.58.00), 11/2A (0.27.00), 11/2C (0.24.50), 11/2D (0.24.50), 11/2E (0.52.00), 11/2F (0.23.00), 11/2G (P) (0.62.25), 11/2H (P) (0.45.00), 11/2I (P) (0.46.25), 11/2J2B (0.24.50), 15/2B1 (0.37.00) for a period of 5 years subject to produce Mining Plan for approval and to obtain Environment Clearance from SEIAA in the reference 2^{nd} cited.

3) The applicant has submitted the Mining Plan, prepared as per guidelines issued by the Commissioner of Geology and Mining and as per Rules and Acts. The Geological and Mineable reserves are discussed in Part - A 3. The applicant can quarry the mineral in the following measurements:-

SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	ROUGH STONE VOLUME M ³	TOP SOIL & GRAVEL VOLUME M ³
A_A' & B_B'	62	104	6.0		38,688
A H CODD	62	104	35.0	2,25,680	-
A_A'& C C'	168	110	3.0		55,440
A-A & C-C	168	110	38.0	7,02,240	
C C'& D D'	80	80	3.0	-	19,200
C-C & D-D	80	80	38.0	2,43,200	
F F'S F F'	110	86	6.0	-	56,760
E-E & F-F	110	86	35.0	3.31.000	-
TOTAL	GEOLOGI	CAL RESE	RVES	15,02,220	1.70.088
Existing	134	55	3.0	-	(-)22,110
pits A-A' & C-C'	132	38	5.0	(-)27,060	-
	62	46	3.0	-	(-) 8 556
CC' & DD'	60	45	5.0	(-)13,500	-
LESS	S - ALREAD	(-)40,560	(-)30,666		
BALANC	E GEOLOG	14,61,660	1,39,422		

GEOLOGICAL RESOURCES (As per Mining Plan)

AVAILABLE MINEABLE RESERVES (As per Mining Plan)

SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	ROUGH STONE VOLUME (M ³)	TOP SOIL & GRAVEL VOLUME (M ³)
	53	86	6.0	(AS)	27,348
	46	72	5.0	16,650	
	41	62	5.0	12,710	21
A-A' & B-B'	36	52	5.0	9,360	
	31	42	5.0	6,510	
	26	32	5.0	4,160	i i
	21	22	5.0	2,310	-

	16	12	5.0	960	
	160	101	3.0	-	48,480
	153	94	5.0	71,910	-
	148	89	5.0	65,860	
	143	84	5.0	60,060	-
A-A' & C-C'	138	79	5.0	54,510	-
	133	74	5.0	49,210	
	128	69	5.0	44,160	.
	123	59	5.0	36,285	
	72	62	3.0	-	13,392
	65	48	5.0	15,600	-
	60	38	5.0	11,400	-
C-C' & D-D'	55	28	5.0	7,700	-
	50	18	5.0	4,500	-
	45	8	5.0	1,800	
	92	68	6.0	-	37,536
	78	54	5.0	21,060	
	68	44	5.0	14,960	: . .
E-E' & F-F'	58	34	5.0	9,860	-
	48	24	5.0	5,760	-
	38	14	5.0	2,660	
TOTA	L MINEABLE	RESERVES		5,29,865	1,26,756
LESS	: ALREADY	EXCAVATED		(-)40,560	(-)30,666
BALAN	CE MINEABL	E RESERVE	S	4,89,305	96,090

YEAR WISE - PRODUCTION SCHEDULE (As per Mining Plan)

YEAR	SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	ROUGH STONE VOLUME (M ³)	GRAVEL VOLUME (M ³)
		18	86	6.0		9,288
	A-A' & B-B'	10	72	5.0	3,600	
		160	101	3.0	41	48,480
2/22/07/00	A-A' & C-C'	153	94	5.0	71,900	84
I-Year		78	89	5.0	34,710	9 6
		72	62	3.0	-	13,392
	C-C' & D-D'	65	48	5.0	15,600	-
		60	38	5.0	11,400	5#1
	SUB -	TOTAL I-YE	EAR		1,37,220	71,160
1	LESS: ALREA	DY EXCAV	ATED PIT	S	(-)40,560	(-)30,666
	I - YEA	R PRODUC	TION		96,660	40,494
		35	86	6.0		18,060
	A-A' & B-	36	72	5.0	12,960	-
	B'	41	62	5.0	12,710	
II-Year		36	52	5.0	9,360	-
	A-A'& C-	70	89	5.0	31,150	
	C'	79	84	5.0	33,180	-
	II – YEA	R PRODUC	TION		99,360	18,060

то	TAL PRODUCT	4,89,305	96,090			
	V - YEAR	PRODUCT	TION		96,885	37,536
		38	14	5.0	2,660	-
		48	24	5.0	5,760	-
	L D G I-P	58	34	5.0	9,860	-
	E-E'& E-E'	68	44	5.0	14,960	
· · · · · · · · · · · · · · · · · · ·		78	54	5.0	21,060	-
V-VEAP		92	68	6.0	-	37.536
	D'	45	8	5.0	1,800	-
	C-C'& D-	50	18	5.0	4,500	
	A-A' & C- C'	123	59	5.0	36,285	-
	IV - YEA	R PRODUC	TION		96,640	-
	C'	128	69	5.0	44,160	
	A-A' & C-	133	74	5.0	49,210	-
V-VEAR	B'	16	12	5.0	960	-
	A-A' & B-	21	22	5.0	2.310	-
	III – YEA		99,760	-		
	C-C' & D- D'	C-C'& D- D' 55 28 5.0		5.0	7,700	ŧ
	C'	138	79	5.0	54,510	-
III-Year	A-A' & C-	64	84	5.0	26.880	
	B'	26	32	5.0	4,160	-
	A-A' & B-	31	42	5.0	6,510	-

The available mineable reserves have been computed as **4,89,305 m³** as Rough Stone, Top Soil & Gravel including Weathered Rock as **96,090 m³** to the depth of **41m** from the ground level.

The Environmental Management Plan and Mine closure plan are discussed Part - B 9 & 10 and all conditions has been incorporated in the Mining Plan as laid down by the authorities.

4) In view of the above, in exercise of the powers delegated under Rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959, I hereby approve the Mining Plan submitted by Thiru.S.Marimuthu for quarrying Rough Stone and Gravel over an Extent of 4.24.00 Hectares of Patta Land in S.F.Nos: 10/12 (0.58.00), 11/2A (0.27.00), 11/2C (0.24.50), 11/2D (0.24.50), 11/2E (0.52.00), 11/2F (0.23.00), 11/2G (P) (0.62.25), 11/2H (P) (0.45.00), 11/2I (P) (0.46.25), 11/2J2B (0.24.50), 15/2B1 (0.37.00) of Kottaiyur Village, Virudhunagar Taluk

and District for a period of 5 years to obtain Environment Clearance

from SEIAA, Chennai subject to the following conditions:

- 1. The Mining Plan is approved without prejudice to any other law applicable to the quarry permission from time to time where such Laws are made by the State Government or any other authority.
- 2. This approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Tamil Nadu Minor Mineral Concession Rules, 1959.
- 3. The Mining Plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.
- 4. The approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 or any other connected Laws including, Environment Protection Act, 1986, and the Rules made there under in Tamil Nadu Minor Mineral Concession Rules, 1959.

Encl: Two copies of Mining Plan.

Assistant Director, Geology and Mining, Virudhunagar.

Copy to: The Member Secretary, State Level Environmental Impact Assessment Authority, PanagalMaligai, No. I Jeenis Road, Saidapet, Chennai -15.

ANNEXURE-IV 500M Radius letter

From

Thiru.T.Selvasekar, M.Sc., Assistant Director, Geology and Mining, Virudhunagar. **To** Thiru.S.Marimuthu, S/o.S.Sundaram, D.No: 4/117, Melatheru, Kadaneri Village, A.Thulukappat Post, Wathraytiruppu Taluk, Virudhunagar District.

Roc.No: KV1/519/2020, Dated: 27.05.2022.

Sir,

- Sub: Mines and Minerals Minor Mineral Virudhunagar District & Taluk Kottaiyur Village Patta Land S.F.Nos: 10/12 (0.58.00), 11/2A (0.27.00), 11/2C (0.24.50), 11/2D (0.24.50), 11/2E (0.52.00), 11/2F (0.23.00), 11/2G (P) (0.62.25), 11/2H (P) (0.45.00), 11/2I (P) (0.46.25), 11/2J2B (0.24.50), 15/2B1 (0.37.00) Extent 4.24.00 Hectares Quarry lease application preferred by Thiru.S.Marimuthu for quarrying Rough Stone and Gravel Details of quarries in 500 meter radius Regarding.
- **Ref:** 1. Quarry lease application received from Thiru.S.Marimuthu dated: 21.09.2020.
 - The Assistant Director, Geology and Mining, Virudhunagar Rc.No.KV1/519/2020, Dated: 25.02.2021.
 - 3. Thiru.S.Marimuthu letter, dated:24.05.2021.

Thiru.S.Marimuthu has preferred an application for the grant of quarrying lease to quarry Rough Stone and Gravel over an extent of 4.24.00 Hectares of Patta Land in S.F.Nos: 10/12 (0.58.00), 11/2A (0.27.00), 11/2C (0.24.50), 11/2D (0.24.50), 11/2E (0.52.00), 11/2F (0.23.00), 11/2G (P) (0.62.25), 11/2H (P) (0.45.00), 11/2I (P) (0.46.25), 11/2J2B (0.24.50), 15/2B1 (0.37.00) of Kottaiyur Village, Virudhunagar Taluk and District for a period of 5 (Five) Years Under Rule 19 of Tamil Nadu Minor Mineral Concession Rules 1959.

The applicant Thiru.S.Marimuthu in the reference 3rd cited has requested to furnish details of quarries situated within 500 m radial distance from the applied area.

In this connection, it is informed that the details of quarry situated within 500 meter radius from the proposed area for Environmental Clearance as detailed below:

S. No	Quarry detail	Village	S.F. No.& Extent (Hect)	Proceedings No. & Lease Period
I	Existing Quarries: Nil			101100
1,	Thiru.C.Selvarajpandi, D.No. 676-D, Andal Nagar 2nd Street, Kunnoor, Srivilliputhur.	Kottaiyur	18/3 19/3 19/5 20/1 20/2A 20/2B 20/3A 20/3B 20/4A1 20/4A2 20/4B (4.03.00)	KV1/27728/2016, Dated: 17.05.2018 17.05.2018 to 16.05.2023
2.	Thiru.R.Rajeshkanna, S/o. P. Ramraj, Andipatti, Pandalgudi Post, Aruppukottai Taluk, Virudhunagar District	Kottaiyur	2/3 2/6 2/7 (1.20.50)	KV1/15033/2015, dated: 16.11.2017 Modified MP KV1/15033/2015-1, dated: 28.05.2019 27.12.2017 to 26.12.2022 Modified MP 27.09.2018 to 26.12.2022
3.	Tmt.C.Vannamuthu W/o.Chellakani 2/183A, Thathampatti T.Sedapatti Post.	Kottaiyur	13/3A1 (0.46.00)	KV1/482/2018 Dated:18.07.2020 26.08.2020 to 25.08.2025
II	Abandoned Quarry : NIL			
ш	Present Proposed Quarry :			
1.	Thiru.S.Marimuthu, S/o.S.Sundaram, D.No: 4/117, Melatheru, Kadaneri Village, Wathraytiruppu Taluk, Virudhunagar District.	Kottaiyur	10/12,11/2A 11/2C,11/2D 11/2E, 11/2F 11/2G (P) 11/2H (P) 11/2I (P) 11/2J2B 15/2B1 (4.24.00)	KV1/519/2020 Dated: 23.09.2020

1) Details of quarry within 500 m radius from the applied area

2) The dimension of the existing pit in the area applied for leases is given below.

	Length (Max) (M)	Width (Max) (M)	Depth (Max) (M)
A-A' & C-C'	134	55	8.0
C-C' & D-D'	62	46	8.0

Sl. No.	Extent	SF. Nos.	Village & Taluk	Proceedings No. & date	Period
1	2.74.00	11/2A 11/2C 11/2D 11/2E 11/2F 11/2G 11/2I	Kottaiyur & Virudhunagar	KV1/620/2014, Dated: 22-09-2014	24.09.2014 to 23.09.2019

3) The period of the earlier Quarry operations (Expired)

Environmental Clearance	Proceedings & Lease Period	Pern Quantit Appr Mining E	nitted ty as per roved ty Plan & C	permi transpor	Depth (m)	
		Rough Stone	Top Soil & Gravel	Rough Stone	Top Soil & Gravel	
SEIAA- TN/F.No.2503/ EC/1(a)/ 1500/2014, Dated: 14.08.2014	KV1/620/2014, Dated: 22-09-2014 24.09.2014 to 23.09.2019	42,810 Cu.m	17,966 Cu.m	37,961 Cu.m	*31,441.50 Cu.m	8 m (Average)

Note * Excess quantity (Approximately 15,000 Cbm) stocked in lease expired area.

Assistant Director, Geology and Mining, Virudhunagar.

Copy to: The Member Secretary, State Level Environmental Impact Assessment Authority, PanagalMaligai, No. I Jeenis Road, Saidapet, Chennai -15.

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ANNEXURE-V

FMB, A REGISTER, VILLAGE MAP AND DEED OF AGREEMENT







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ANNEXURE-VI MINING PLAN REPORT & PLATES

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and PROGRESSIVE ROUGH STONE a	E N na	AINE CLOSURE PLAN
ROUGH STONE a	n	
		d GRAVEL QUARRY
(PREPARED UNDER RULE 12 OF MINOR MINERAL CONSERVATION & DEVELOPMENT RULES, 2010 & AS PER AMENDMENT UNDER RULE No. 41 &42 of TAMILNADU MINOR MINERAL CONCESSION RULES, 1959)		
Mining Plan & Lease	e F	Period – Five (5) years
LOCATION OF THE	Q	UARRY LEASE AREA
EXTENT	:	4.24.0 Hectares
SURVEY Nos.		10/12, 11/2A,2C,2D,2E,2F,2G,2H(P), 2I(P),2J2B & 15/2B1
VILLAGE	:	KOTTAIYUR
TALUK	:	VIRUDHUNAGAR
DISTRICT	ā	VIRUDHUNAGAR

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Applicant

Thiru.S.MARIMUTHU, S/o. SUNDARAM D.No.4/117, MELATHERU, KADANERI VILLAGE A.THULUKAPATTI Post - 626 149. WATHRAYTIRUPPU TALUK VIRUDHUNAGAR DISTRICT.

PREPARED BY

R.GURURAMACHANDRAN, M.Sc., QUALIFIED PERSON (RQP/MAS/224/2010/A)
Thiru.S.MARIMUTHU, S/o. SUNDARAM D.No.4/117, MELATHERU, KADANERI VILLAGE A.THULUKAPATTI Post – 626 149. WATHIRAYIRUPPU TALUK VIRUDHUNAGAR DISTRICT,

CONSENT LETTER OF THE APPLICANT

I hereby give my consent to prepare the Mining Plan for the grant of Quarry Lease for quarrying Rough Stone & Gravel over a total extent of 4.24.0 Hectares in SF. Nos.: 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk and District for a period of Five (5) years vide Deputy Director, Geology and Mining, Office District Collector, Virudhunagar District, Virudhunagar letter Na.Ka.No.KV1/519/2020-Kanimam dated 25.02.2021 and submit for approval before the Competent Authority by

> Mr. R. Gururamachandran, M.Sc., Qualified Person - RQP/MAS/224/2010/A,.

I request the Deputy / Assistant Director Geology and Mining, Virudhunagar to make further correspondence regarding the modification of the Mining Plan if any with said Qualified Person in the following address :

> No. 4/479A, Nandhikoil Theru, E.B.Colony, Puliankulam, Soolakkarai West, Virudhunagar – 626 003. Cell :9443434288 / 9750309288 email : <u>gruram@gmail.com</u>

I hereby undertake that all the modifications, if any, made in the Mining Plan by the Qualified Person may be deemed to have been made with my knowledge and consent and shall be acceptable by me and binding on me in all respect.

Place: Virudhunagar Date: 24.05.2021 S. Long By S. S.Marimuthu

இயக்குநா அலுவு

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Signature of the Applicant.

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Thiru.S.MARIMUTHU, S/o. SUNDARAM D.No.4/117, MELATHERU, KADANERI VILLAGE A.THULUKAPATTI Post - 626 149. WATHIRAYIRUPPU TALUK VIRUDHUNAGAR DISTRICT.

DECLARATION OF THE APPLICANT

The Mining Plan in respect of the grant of quarry lease for quarrying of Rough Stone & Gravel over a total extent of **4.24.0 Hectares** in **SF. Nos.: 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk and District for a period of Five (5) years** has been prepared and submitted for approval in full consultation with me.

I understand its contents and agree to implement the same in accordance with Laws, Rules and Act applicable to quarry Rough Stone and Gravel.

Place : Virudhunagar Date : 24.05.2021 S. Lorch Dod S.Marimuthu Signature of the Applicant.

This Mining is approved based on guidelines/ Instructions issued in the CGM, Letter No.3868/LC/2012 dated 19-11-2012 and incorporation of the particulars specified in the latter Roc. No. KV1.519, R020 Dated. 27105, 2022, of B 000 Up Director of Geology and Mining, subscription, id subject to further Fulfillment of the constant of seven under rule 41,42 of Tamil Name Minio, subscription Rules 1958

Assistant Director of Geology & Mining Virudhunagar

This Mining Plan is approved Subject to the conditions / Stipulation Indicated in the Mining Plan Approval 519/8020-7157 Letter Roc. No. KV Dated 27 05 002

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R.Gururamachandran , M.Sc., No. 4/479A, Nandhikoil Theru, E.B.Colony, Puliankulam, Soolakkarai West, Virudhunagar – 626 003. Cell :9443434288 / 9750309288 email : gruram@gmail.com

CERTIFICATE FROM THE QUALIFIED PERSON

This is to certify that the provisions of the Mines Act, Rules and Regulations, Minor Mineral Conservation and Development Rules, 2010 & as per Amendment Rules under Tamil Nadu Minor Mineral Concession Rules, 1959etc., made there under have been observed in the preparation of Mining Plan for Rough stone and Gravel quarry for Thiru.S.Marimuthu over an extent of 4.24.0 Hectares in SF. Nos.: 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk and District for a period of Five years.

Where ever the necessary permissions / exemptions / relaxations and approvals are required, the applicant would approach the concerned authorities of State and Central Governments for granting such permissions etc..

Place : Virudhunagar Date : 24.05-204 Qualified Person R. GURURAMACHANDRAN, M.Sc., Qualified Person (RQP/MAS/224/2010/A)

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CERTIFICATE FROM THE QUALIFIED PERSON

This is to Certify that I, R.Gururamachandran M.Sc., (App.Geo)., having an office at No. 4/479A, Nandhikoil Theru, E.B.Colony, Puliankulam, Soolakkarai West, Virudhunagar – 626 003. I am a Post Graduate in Applied Geology from Madras University, AC Tech Campus.

Rule 15(I)(a) and (b) of Minerals (other than Atomic, Hydro Carbons Energy Minerals) Concession Rules 2016 stipulated the eligibility for preparing Mining plans as "(I)(a) a post graduate degree in Geology granted by a University established" and (I)(b) "Professional experience of five years of working in a supervisory capacity in the field of Mining after obtaining the degree". Since my qualification and experience are satisfied the Rule (I)(a) and (I)(b) of 15 of the said Rules, I am eligible to prepare Mining Plans for both Major and Minor minerals.

Accordingly, I prepared this Mining Plan for Rough stone and Gravel quarry for Thiru.S.Marimuthu over an extent of 4.24.0 Hectares in SF. Nos.: 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk and District

Place : Virudhunagar Date : کلو، می ا

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Qualified Person R. GURURAMACHANDRAN, M.Sc. Qualified Person (RQP/MAS/224/2010/A)

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2 7 MAY 2022

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S.NO	DESCRIPTION	ANNEXURE
1	Copy of Precise Area Communication	Ι
2	Copy of RDO & Revenue Department Reports	Ш
3	Copy of Aadhar card - Id Proof of Applicant	III
4	Copy of FMBs	IV
5	Copy of Patta, Adangal, A-Register	v
6	Copy of Consent Registered Lease Agreement	VI
7	Copies of Previous Environmental Clearance, Proceedings & Lease Deeds.	VII
8	VAO certificate along with site photo.	VIII
9	Site photos	IX
10	Agreement for Explosive & Blasting with license copies	x
11	Copy of Qualified Person Certificates	XI

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2 7 MAY 2022

கிருது கர் கராப்கத்த

S.NO	DESCRIPTION	PLATE No.	SCALE
1	LOCATION PLAN	I	Not to Scale
2	ROUTE MAP	ΙA	Not to Scale
3	KEY PLAN	Ш	1 : 50,000
4	MINING LEASE PLAN	III	1 : 2,000
5	SURFACE & GEOLOGICAL PLAN & SECTIONS	IV IV-A	1 : 2,000 & 1 : 1,000
6	YEARWISE PRODUCTION PLAN & SECTIONS	V V-A	1 : 2,000 & 1 : 1,000
7	CONCEPTUAL PLAN & SECTIONS	VI VI-A	1 : 2,000 & 1 : 1,000
8	ENVIRONMENTAL PLAN	VII	1 : 5,000
9	VILLAGE MAP SHOWING ENVIRONMENTAL FEATURES	VII-A	1 : 10,000
10	LAND USE PATTERN	VII-B	1:10,000
11	PROGRESSIVE MINE CLOSURE PLAN	VIII	1:2,000

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MINING PLAN

and PROGRESSIVE MINE CLOSURE PLANAY 2022 for ROUGH STONE & GRAVEL QUARRY OVER an EXTENT of 4.24.0 Hectares and 8 or of the state of the

(Prepared Under Rule 12 of Minor Mineral Conservation and Development Rules, 2010 and as per Amendment under Rule 41& 42 of Tamil Nadu Minor Mineral Concession Rules, 1959)

INTRODUCTION and EXECUTIVE SUMMARY :

This Mining Plan is prepared for Quarrying of Rough Stone and Gravel by systematic and scientific quarrying and to obtain Environment Clearance from State level Environmental Impact Assessment Authority (SEIAA), Chennai. The applicant **Thiru.S.Marimuthu** of Kadaneri village, A.Thulukkapatti Post, Wathirayiruppu Taluk Virudhunagar District is an individual having skill on Rough Stone and Gravel Quarrying. The Rough Stone is mainly used for crushing blue metal stone aggregates of various sizes and M-Sand for concrete mixing for building, road, bridges, etc., and Gravel for filling purposes for road and buildings.

The applicant applied this area for quarrying & transportation of Rough Stone and Gravel over an extent of 4.24.0 Hectares in SF. Nos.: 10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1 of Kottaiyur Village, Virudhunagar Taluk & District under Rule 19 of Tamil Nadu Minor Mineral Concession Rules 1959 and the Deputy Director, Mining and Geology, Office of the District Collector, Virudhunagar District communicated the precise area for the grant vide letter Na.Ka.No: KV1/519/2020-Kanimam dated 25.02.2021 for a period of 5 years under Rule 19 and 20 of Tamil Nadu Minor Mineral Concession Rules 1959 subject to the following conditions:

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R. GURURAMACHANDRAN, M.Sc.,

Qualified Person (RQP/MAS/224/2010/A)



Hence, keeping all the conditions laid down by all the departments this Mining Plan is prepared under Rule 41(5) & 42 of Tamil Nadu Minor Mineral Concession Rules 1959 for approval in order to obtain the Environmental Clearance from SEIAA-Chennai.

PREVIUOS QUARRYING OPERATIONS & PERMISSIONS:

- In his area, the SF.Nos.11/2A, 2C, 2D, 2E, 2F, 2G &2I of Kottaiyur Village, Virudhunagar Taluk over an extent of 2.74.0 Hectares was earlier quarried for Rough Stone and Gravel by Thiru.S.L.Muniasamy S/o.S.Lakshmanan of Kadayanallur village, Tenkasi Taluk & District vide Virudhunagar District Collector Proceedings Rc.No.KV1/620/2014 dated 22.09.2014 and the lease period from 29.09.2014 to 28.09.2019 under the Environmental Clearance Lr.No.SEIAA-TN/F.No.2503/ EC/1(a)/1500/2014 dated 14.08.2014.
- Also, the SF.Nos.11/2J2 & 15/2B1 of Kottaiyur Village, Virudhunagar Taluk over an extent of 0.64.5 Hectares was earlier quarried for Rough Stone and Gravel by Thiru.V.Thannasimuthu S/o.Veerakon of Kalaperumalpatti village, Virudhunagar Taluk & District vide Virudhunagar District Collector Proceedings Rc.No.KV1/360/2005 dated 28.07.2005 and the lease period from 04.08.2005 to 03.08.2010.

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Executive Summary:

i.

Area details :			10	LIVEN	
District & Taluk	Village	Survey Nos.	Total Extent in Hects.	Shu Shuttan & son Drive	55506072
Virudhunagar	Kottaiyur	10/12, 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P), 11/2I(P), 11/2J2B and 15/2B1	4.24.0	Ryotwari Patta	

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ii. The Estimated Reserves are :

Geological available Resources in M ³		Mineable Reserves & Production for 5 years in M ³		
Rough Stone	Gravel	Rough Stone	Gravel	
14,61,660	1,39,422	4,89,305	96,090	

iii.	Topography of the area	Ξ	The area is plain terrain.
iv.	Existing Depth of the quarried pits	=	8m (North in SF.Nos.11/2G,2H&2I)
			8m (Southeast in SF.No.15/2B1)
v.	Proposed Total Depth of mining	=	41.0m (Below ground level)
vi.	Proposed period of mining	=	5 years
vii.	It is a new/Existing quarry lease	=	Existing pits are available

viii. Method of mining / level of mechanization = Opencast semi- mechanized method, the quarry operation involves shallow jack hammer drilling, slurry blasting.

ix. Type of machineries proposed to be deployed in the quarrying operation. Excavator of 0.90Cbm bucket capacity (with Rock breaker attachment)-4 Nos Jack hammers 30-32mm dia.- 4 Nos

x. Tractor mounted compressor (4 jack hammer capacity)- 4 Nos.

xi. No trees are uprooted due to quarrying operation.

xii. The existing road from the main road to quarry is in good condition and the same will be maintained and utilized for transport.

xiii. There is No Export of the Rough stone.

xiv. The lease area is about 4.24.0 Hectares which is bounded by four corners and the Co boundaries are clearly marked in the drawing enclosed as Plate No III.

xv. The diagram of proposed mining area showing the dimensions of the pit, its proposed Depth of mining, proposed area is enclosed as Plate No V.

xvi. There is no wastages anticipated during this quarry operation and the top soil will be stacked along the boundary barrier and safety zones for afforestation purpose in the lease area.

xvii. Around 16 employees are proposed to be deployed for quarrying operation.

xviii. Environmental parameters,

i) The area does not attract the Forest Conservation Act, 1980 around 1 Km radius.

ii) There is no interstate boundary around 10Kms radius.

iii) There are no Wild Life Sanctuaries within 10Kms radius.

The project seeks clearance only from State Level Environmental Impact Assessment

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as there is no forest

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Authority (SEIAA) under **B1 Category** since the applied area exceeds 5 hectares in cluster within 500mts.

xix. TOTAL COST OF THE PROJECT:

	A. Investment cost B. Mining cost	= =	Rs. Rs.	8,25,000/- 1,12,22,850/-
	Total Project Cost (A+B)	=	Rs.	1,20,47,850/-
XX.	EMP Cost	=	Rs.	6,65,000/-
xxi.	CER Cost@2.0% over (A+B)	 =**********	Rs.	2,50,000/-

1. GENERAL INFORMATION :

1.1	a)	Name of the applicant	Thiru. S.MARIMUTHU, S/o.Sundaram
	b)	Address of the applicant (with phone No. & e-mail)	Address : D.No.4/117, Melatheru, Kadaneri village A.Thulukkapatti Post-626149, Wathirayiruppu Taluk District : Virudhunagar Pin Code : 626149. Mobile No : 8754764777.
	c)	Status of the applicant (Individual / Company / Firm)	Individual.
1.2	a)	Mineral which the applicant intends to mine	Rough Stone and Gravel.

		2. 30 Quide Bri Anguarans	
b)	Precise area communication letter details received from the Competent authority of the Government	Deputy Director, Geology & Mining, Office of the District Collector, Virgenting, Deputy Precise area communication letter Na.Ka.No. KV1/519/2020-Kanimam.dated 25:02:2021	/
c)	Period of permission / lease to be granted	Period of lease to be granted for 5 years as per Rule 19 and 20 of Tamil Nadu Minor Mineral Concession Rules -1959.	
d)	Name and address of the RQP / Authorized person preparing the mining plan	Name: R. Gururamachandran, M.Sc.,Address: No. 4/479A, Nandhikoil Theru, E.B.Colony, Puliankulam, Soolakkarai West, Virudhunagar - 626 003.Cell: 9443434288 / 9750309288.E-Mail: gruram@gmail.com Registration No : RQP/MAS/224/2010/A.	

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2. LOCATION :

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2.1	a)	Details of the area	There are no villages within the radius of 500m. The area					
		with location map	bounded by following villages within 5 kms circle.					
			- refer Plate	- refer Plate-IA & Plate-II.				
				Table -1				
			DIREC- TION	VILLAGE	POPU- LATION	DIS- TANCE		
			North	M.Chinnaiyapuram	1,000	0.5 Km		
				Valayapatti	650	2.0 Km		
				Meenakshipuram	550	3.0 Km		
				Chokkalingapuram	500	4.0 Km		
			NorthEast	Koothiparai	500	4.0 Km		
			NorthWest	Ramakudumbanpatti	350	3.0 Km		
				Sanapatti	450	4.0 Km		
				Vachakarapatti	1,700	5.0 Km		
	·		South	Virarpatti	1,000	2.0 Km		
				Appaiyanaickerpatti	1,500	3.0 Km		
				Puthupatti	650	3.5 Km		
				Nallamanaickerpatti	1,200	4.5 Km		
			SouthEast	Sundaralingapuram	400	4.5 Km		
			SouthWest	Sundarlingapuram	500	4.0 Km		
				Golwarpatti	450	4.5 Km		
			East	Kottaiyur	1,000	1.5 Km		
				Bommaiyapurm	550	4.0 Km		
			West	Mannarkottai	650	2.0 Km		
				Aavudaiyapuram	1,500	3.5 Km		

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	i)	District, Taluk and Village	District : Virudhunagar Taluk : Virudhunagar Village : Kottaiyur
. X.	ii)	Survey Nos.	10/12 (0.58.0 Hc.), 11/2A (0.27.0 Hc.), 11/2C (0.24.5 Hc.), 11/2D(0.24.5 Hc.), 11/2E (0.52.0 Hc.), 11/2F (0.23.0 Hc.), 11/2G(P) (0.62.25 Hc.), 11/2H(P)(0.45.0 Hc.), 11/2I(P)(0.46.25 Hc.), 11/2J2B (0.24.5 Hc.) and 15/2B1 (0.37.0 Hc.)
	iii)	Total Extent in Ha.	4.24.0 Hectares
2.2	b)	Classification of the area (Ryotwari/ Poramboke/others)	Patta Lands (Ryotwari)
2.3	c)	Ownership / Occupancy of the applied area (surface right)	As per Kottaiyur revenue village, Virudhunagar Taluk accounts the land SF.No. 10/12 vide patta No.1629 stands in the name of Tmt.S.Maheswari W/o.Thiru.C.Selvarajpandi and SF.Nos.11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G(P), 11/2H(P)&11/2I(P) vide ptta No.1493 and 11/2J2B &15/2B1 vide patta No.1608 stands in the name of Thiru.C.Selvarajpandi S/o.Chellamuthu. The pattadhars Thiru.C.Selvarajpandi and Tmt.S.Maheswari jointly have executed Lease agreement for quarrying for Rough Stone and Gravel to the applicant Thiru.S.Marimuthu registered vide Document No.230 of 2022 at Pandalgudi Sub-Registrar office. As such the applicant has got surface rights over the lands applied for the grant of quarry lease for Rough Stone and Gravel.
2.4	d)	Topo sheet No. with latitude and longitude	Topo Sheet No. : 58 G/15 & 58 K/3. Latitude Between : 09º 26' 11.60" to 09º 26' 19.15" N Longitude Between : 77º 58' 45.20" to 77º 58' 56.07" E

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2.5	e)	Existence of public road / Railway line, if any nearby and approximate distance	The area applied for quarry lease lies in 6 pmp Mast of Thulukkapatti vilakku which tokens south of Virudhunagar located in NH-44 4-lane attributed is birder south of R.R.Nagar. The site is situated 0.5 km south of M.Chinnaiyapuram village and 1.5kms west of Kottaiyur village. The road from the quarry to panchayat road is already in existence, the same road will be maintained & utilized for transportation. The nearest Rail head is at Thulukkapatti at a distance of 7 Km west and Sattur Town at 15kms southwest . The nearest airport is at Madurai in 55 Km distance.	8

<u> PART — A</u>

3. GEOLOGY AND MINERAL RESERVES :

3.1 Brief description of the Topography and general Geology of the area (with plans)

The area applied for quarry lease is plain terrain with very gentle slope towards south and covered by brownish red soil followed by weathered rock formation and massive Charnockite rock formation. The massive rock formation is noticed / occurred at an average depth varies from 3.0m to 6.0 mts from the surface i.e. below top soil and weathered rock formation.

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The top sandy brownish soil and weathered rock portion used for formation of Roads, filling the low lying areas, etc.,. The massive charnockite occur below the weathered zone is hard, medium to coarse grained with intrusions. The charnockite is played a vital role in construction and road formation civil works.

Water table is found at a depth of 60m below ground level in this particular area. Average annual rainfall is about 935mm during SW and NE monsoons.

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	Peninsular gneiss forms the oldest, ock formations of the massive formation of characteria age, in which the massive formation of characteria of the second of the seco
	Unconformity Archean - Charnockites Peninsular Gneiss complex.
3.2 Details of exploration already carried out if any	Exploration does not arise, since the massive Rough stone formation visible from the existing abandoned quarry pit south side portion of this site.
3.3 Estimation of reserves	
a) Geological reserves with geological sections on a scale of 1:1000 / 1:2000	The practical method of the systematic geological mapping and delineation of Rough stone (Charnockite) within the field was done and careful evaluation of body luster, physical properties, engineering properties, commercial aspects etc.,.
	Totally six sections have been drawn as (A-A'), (B-B'), (C-C'), (D-D'), (E-E') and (F-F') sections drawn across as to cover the maximum area considered. The Topographical, Geological plan and sections demarcated the commercial marketable Rough stone (Charnockite) deposit has been prepared in Plan-1:2000 scale & Sections- 1:1000 and the estimated available Geological Reserves as 14,61,660 CuM of Rough Stone and 1,39,422 CuM of Gravel. Please refer the Surface & Geological plan and sections Plate No- IV.
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Geological Resources (Plate No. IV)

The geological reserves have been calculated based on the cross section availability of Geological Resources in this land is given below.

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			Table-T		
SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	ROUGH STONE VOLUME M ³	TOP SOIL & GRAVEL VOLUME M ³
Δ-Δ' & B-B'	62	104	6.0	2	38,688
	62	104	35.0	2,25,680	
A-A' & C-C'	168	110	3.0	2	55,440
	168	110	38.0	7,02,240	-
C_C' & D_D'	80	80	3.0	5	19,200
	80	80	38.0	2,43,200	
E_F' & C_C'	110	86	6.0	-	56.760
	110	86	35.0	3.31.000	
TOTAL	GEOLOG	CAL RESE	RVES	15,02,220	1,70,088
Existing nite	134	55	3.0	194	(-)22,110
A-A' & C-C'	132	38	5.0	(-)27,060	
C_C' & D_D'	62	46	3.0	1 4	(-) 8,556
	60	45	5.0	(-)13,500	32
LESS -	- ALREADY	EXCAVAT	ΈD	(-)40,560	(-)30,666
BALANC	E GEOLOG	GICAL RES	14,61,660	1,39,422	

Table-1

Table-1A - EXISTING PIT DIMENSION

Existing Pit Section	Length (Max) (m)	Width (Max) (m)	Depth (Max) (m)	
A-A' & C-C'	134	55	8.0	
CC' & DD'	62	46	8.0	

Available Mineable Reserves (Plate No. VI)

The available mineable reserves are calculated for the proposed lease period of 5 years based on the total minable reserves calculated by deducting 7.5m & 10.0m safety distances to and Bench losses.

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Table-2				8000	BUSIN STATISTICILLO		
SECTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	BOUCH STONE VOLUME	TOP SOIL & 7 GRAVEL VOLUME		
	53	86	6.0	CHODER	Web & AHUNA		
	46	72	5.0	16.650	27.348		
	41	62	5.0	12 710	-		
A-A' & R-R'	36	52	5.0	0 260-			
	31	42	5.0	6,500	-		
	26	32	5.0	4 160	-		
	21	22	5.0	2 310	-		
	16	12	5.0	960	-		
	160	101	3.0	700	40.400		
	153	94	5.0	71,910	40,480		
	148	89	5.0	65,860	-		
A-A' & C-C'	143	84	5.0	60,060	-		
	138	79	5.0	54.510			
1	133	74	5.0	49.210	~		
	128	69	5.0	44,160			
	123	59	5.0	36,285			
	72	62	3.0		13 392		
	65	48	5.0	15.600	10,092		
CC' & DD'	60	38	5.0	11,400			
	55	28	5.0	7,700	-		
	50	18	5.0	4,500			
	45	8	5.0	1,800	-		
	92	68	6.0	-	37,536		
	78	54	5.0	21,060			
EE' & FF'	68	44	5.0	14,960	-		
	58	34	5.0	9,860	-		
	48 20	24	5.0	5,760	-		
TOTAL	38	14	5.0	2,660	2		
	MINEABLE	RESERVE	S	5,29,865	1,26,756		
LE22 : 1	ALREADY EX	CAVATED		(-)40,560	(-)30.666		
BALANCE	MINEABLE	RESERV	EC .	4.00.205			

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The remaining balance mineable reserves in the area have been computed as **4,89,305** m³ of **Rough Stone and 96,090** m³ of **Top soil & Gravel** in the form of Weathered Rock up-to the depth of **41.0** meters from the ground level.

4. MINING :

4.1	Method of (opencast underground)	mining /	Open cast Semi-Mechanized Mining with one 6.0 meter bench for Top soil & Gravel followed by 5.0 meter vertical bench with a bench width not less than the bench height. However, as far as the quarrying of Rough stone is concerned, observance of the provisions of
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4.2	Mode of working (mechanized, semi mechanized, manual)	Regulation 106 (2) (b) as above is seldom possible due to various inherent petro generic factors coupled with mining difficulties. Hence it relaxation to the provisions of the above regulation from the Director of Mines Safety for which necessary provision is available with the Regulation 106 (2) (b) of MMR-1961, under Mines Act - 1952. The Rough Stone is proposed to quarry at 5m bench height & width with conventional Opencast Semi- Mechanized Method. The quarry operation involves shallow jack hammer drilling, slurry blasting, Loading and transportation of Rough stone and Gravel to the needy nearby crusher units / road formation works. The production of Rough stone in this quarry involves the following method which is typical for Rough Stone
4.3	Proposed bench height & width	quarrying in contrast to other major mineral mining. Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling and blasting, by manually braking and loading the Rough Stone from pithead to the needy crushing units/ civil works for the needy sectors. Height 5.0m & Width 5.0m.
4.4	Indicate the overburden / mineral production expected pit wise as detailed below (composite plan and section showing pit layout, dumps, disposal of waste if any etc.)	The overburden is in the form of top soil and weathered rock formation, it will be removed during the quarrying operation, the top soil preserved all along the boundary barrier for afforestation and remaining is salable. Hence there is no waste anticipated during the Rough stone quarry operation, The excavated rough stone will be directly loaded into the tippers for selling purpose locally. The Year wise and production Development plan and
		section indicating the Pit lay out, Green belt development are shown in Plate No-V and presented in the Table-3 as follows. 18

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	V				560	Source (1000
	<u>¥</u>	ear wise -	Product	ion Sche	dule - Table	-3
	T	-	_		 + (2 7 MAY 500
YEAR	SECTION	I LENGTH	WIDTH (M)	HEIGHT	ROUGH STON	E GRAVEL
	A-A' & B-E	3′ 18	86	6.0	VOLUMA CAU	NOTOME TRap
		10	72	5.0	3.600	9,289
	ANOGA	160	101	3.0		10.100
I-Year	A-A' & C-C	153	94	5.0	71,900	48;480
		78	89	5.0	34,710	HE!
	00000	72	62	3.0	-	12.000
	LC & D-D	65	48	5.0	15,600	13,392
		60	38	5.0	11,400	
	SU	B - TOTAL I-	YEAR		1.37.220	71.1.0
	LESS: ALR	EADY EXCA	VATED PIT	ГS	(-)40.560	(-)30 666
-	I - YI	AR PRODU	CTION		96,660	(-)30,066
		35	86	6.0	-	10,494
	A-A' & B-B'	36	72	5.0	12,960	10,000
I-Year		41	62	5.0	12,710	
	A-A' & C-C'	30	52	5.0	9,360	-
		70	89	5.0	31,150	
		79	84	5.0	33,180	-
	<u>II - YE</u>	AR PRODU	CTION		99,360	18.060
	A-A' & B-B'	31	42	5.0	6.510	10,000
III-		26	32	5.0	4.160	-
Year	A-A' & C-C'	64	84	5.0	26.880	
	000	138	79	5.0	54,510	
	C-C'& D-D'	55	28	5.0	7,700	
1	<u> 111 – YE</u>	AR PRODU	CTION		99.760	
IV.	A-A' & B-B'	21	22	5.0	2.310	
EAR		16	12	5.0	960	
	A-A' & C-C'	133	74	5.0	49,210	5
	IV - VE	AD DDODU	69	5.0	44,160	-
	A-A' & C.C'	122	LITION		96,640	-
-		123	59	5.0	36,285	(He)
0	C-C' & D-D'	50	18	5.0	4,500	
, †		45	8	5.0	1,800	-
AR		78	68 54	6.0	-	37,536
		68	54 44	5.0	21,060	
	⊑-C & F-F'	58	34	5.0	14,960	-
		48	24	5.0	9,860	-
		38	14	5.0	5,760	1
_	V – YEA	R PRODUC	TION		96.895	
ΤΟΤΑ	L PRODU	TION FOR	FIVE	ADC	10,005	37,536
			CLINE IE	АКЭ	4,89,305	96.090

The applicant has proposed to carry out **4,89,305 m³** of Rough Stone and **96,090 m³** of Top soil & Gravel including Weathered Rock formation production for the period of **FIVE** years up to a depth of **41 m** from the ground level (Table-3).

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						2
.5	Machineries to be used				2 7 MAY 202	2
	a) For mining	Excavator of 0.9 (with Ro Jack hammers 30 Tractor mounted	0Cbm buck ock breaker 0-32mm dia 1 compresso	et capation attachinent 1. – 8 sets.	ண்ருதுநகர் இதுநிகத்	5160
		(2 jack l	ammer cap	oacity) -4No	S.	
	b) Loading equipment	Excavator of 0.90 (with bucket atta)Cbm bucke chment) – ;	et capacity 1 No.		
	c)Transportation (includes within the mine and mine to destination)	Tipper 10 Nos. of (from quarry to r	10/20 ton: leedy peopl	s capacity les & local cr	ushers).	
T.U	/ waste	The overburden rock formation. I nearby end user along the bounda	is in the fo t will be qu rs and part ry as barrie	rm of top so Jarried for f t of soil will r for affores	oil and weath illing purpose be preservee tation.	ered es to d all
F. 7	Brief note on conceptual mining plan for the entire lease period base on the geological, mining and environmental considerations	Conceptual minin term systematic selection of perm ultimate pit dimen of infrastructure, based on certain p depth of mining, s ultimate pit limit mining lease perio	g plan is pr developn anent struc nsions, sele etc., The u practical pa safety zone (dimension d is given b	repared with nent of b tures, depth ction of sites altimate pit rameters su s, permissib n) at the en elow:	an object of enches, layo of quarrying for construc size is desig ch as econom le area, etc., ' d of five ye	long puts, and tion ned ical The ars
			<u>Tabl</u>	<u>le-4</u>		
		Description End of the lease period	Length (Max) (m)	Width (Max) (m)	Depth (Max) (m)	
		A-A' & B-B'	86	53	41	
		A-A' & C-C'	160	101	41	
		C-C' & D-D'	72	62	41	
		E-E' & F-F'	92	68	31	
		Afforestation has safety barrier by Poovarsau and Say	peen propo planting	sed in the Neem, Pun	10.0m & 7.5 gan, Tamarin	im id,

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base line information studies like Air quality monitoring. Noise and vibration monitoring. Water analysis studies will be carried out as per the Mole and the studies of th

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5. BLASTING :

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5.1	Rissting pattern	
biascing pattern		The quarrying operation will be carried out in conjunction
		with conventional method of mining using Jack hammer
		drilling and blasting for shattering effect and loosen the
		Rough stone.
		Drilling and Blasting :
		Drilling and blasting parameters are as follows Depth of Each hole : 1.2m-1.5m
		Diameter of hole : 30-32mm
		Spacing between holes : 0.5m
		Pattern of hole 73-22-2
		Inclination of holes : 80° from horizontal
		Use of delay detonators : 25 milli-second delays
		Detonating fuse : "Detonating" Cord
52	Type of explosives to 1	: Staggered in 2 to 3 rows
0.2	used	Small Dia. 25mm Slurry explosives are proposed to be
		used for shattering and heaving effect for removal and
		winning of Rough stone. No deep hole drilling or primary
		blasting is proposed.
5.3	Measures proposed to minimize ground vibration due to blasting	The quarry is situated more than 1Km from the nearby Villages. Controlled blasting measures will be adopted for minimizing ground vibration and fly of rock. Shallow depths jackhammer drilling & blasting is proposed to be carried out with minimum use of explosive mainly to give shattering effect in rough stone for easy excavation and to control fly of rock. No of Holes = 32Holes Yield = 96Tons Powder factor = 6 tons/Kg of explosives Total explosive required = 16Kg-Slurry explosives Charge/ hole = 0.5 Kg Blasted at day time = 4.30 to 5.30 P M
		(or whenever required)
		21

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5.4	Storage and safety measures to be taken while blasting	The lessee will engage an authorized explosive agency to carry out the small amount of blasting and it will be supervised by competent and the supervised by competence and the supervised by competenc
6. MIN	NE DRAINAGE :	
6.1	Depth of water table (based on nearby wells and water bodies)	The water table is below 60 mts from ground level which is observed from the nearby bore wells and the data obtained from existing panchayat and Private borewells. The quarry operation is proposed up to a depth of 41.0mts below the ground level.
6.2	Arrangements and places where the mine water is finally proposed to be discharged	The water encountered during quarrying inside the pit due to rain water and seepage, will be pumped out by 5HP water pumps to the Green belt development areas and excess water to the down side village water tanks (Kanmoi) for use of agricultural purposes. Also the water will be used for dust suppression on haul reads during

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7. OTHER PERMANENT STRUCTURES (also shown in the map) :

7.1	Habitations / village	There are a but to be
	natham	There are no habitations within the Radius of 500m. The
1		nearby village habitations are tabulated in Table - 5 as
		below.
7.2	Power lines (HT/ LT)	There are no Electric Power line within 50 mts distance
		from the lease area.
7.3	Water bodies (river,	There are no water bodies like river, lake, etc., within 50m
	etc.,)	radial distance.
		The nearest Village tank called Mannarkottai Kanmoj at
		northwest side of the area at a distance of 1.0 Km.
7.4	Archaeological /	There are no Archaeological / historical monuments
	instorical monuments	within 500m radial distance from the area.

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10		லக்குநர் அலுவலை கடி இயக்குநர் அலுவலை கட்கு குட்கு பாரிட்டம்
7.5	Road (NH, SH others)	The National Highway (NI+4) Sridagar to Kanniyakuma i is about 6 Km on Westernesses of the area. The observer Road DR-937 from Paalavathan a trikanson is located 1.0 Km eastern side of the area. The Village panchayat road from Thulukkapatti to Kottaiur Road is about 0.5 Km on Northern side of the area.
7.6	Places of worship	There are no place of worships within the Radius of 500m.
7.7	Reserved forest / forest / social forest / wild life sanctuary etc.	There are no Reserved forest / forest / social forest / wild life sanctuary etc., situated within 10 kms of the area.

<u>Table-5</u>

SL. NO	DIRECTION	VILLAGE	POPULATION	DISTANCE
		M.Chinnaiyapuram	1,000	0.5 Km
1	North	Valayapatti	650	2.0 Km
		Meenakshipuram	550	3.0 Km
2		Chokkalingapuram	500	4.0 Km
2	NorthEast	Koothiparai	500	40 Km
		Ramakudumbanpatti	350	3.0 Km
3	NorthWest	Sanapatti	450	4.0 Km
-		Vachakarapatti	1,700	5.0 Km
	South	Virarpatti	1,000	2.0 Km
4		Appaiyanaickerpatti	1,500	3.0 Km
		Puthupatti	650	3.5 Km
r		Nallamanaickerpatti	1,200	4.5 Km
5	SouthEast	Sundaralingapuram	400	4.5 Km
6	SouthWest	Sundarlingapuram	500	4.0 Km
		Golwarpatti	450	4.5 Km
7	East	Kottaiyur	1,000	1.5 Km
		Bommaiyapurm	550	4.0 Km
8	West	Mannarkottai	650	2.0 Km
		Aavudaiyapuram	1,500	3.5 Km

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		2.50	இயக்குநர் அலுலை விறதுகள் மாகுட்டம்
Ne	arest Infrastructures :	<u>Table-6</u>	2 7 MAY 2022
SI. No	Name of infrastructure	Name of village	area applied for M.L
1	Post office	Ramasamy RajaNagar B.O Pin:626 204	6.0 Km
2	Police station	Vachakarapatti	7.0 Km
3	Town	Sattur	15.0 Km
4	Panchayat	Kottaiyur	1.5 Km
5	Union	Virudhunagar	21.0 Km
6	DSP office	Virudhunagar	21.0 Km
7	Hospital	Auvudaiyapuram PHC	3.5 Km
8	School	Panchayat Union School Kottaivur	1.5 Km
9	Railway station	Thulukkapatti / Sattur	5.0 Km / 15.0 Km
10	Airport	Madurai	55 Km
11	Sea Port	Thoothukudi	85 Km

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8. EMPLOYMENT POTENTIAL & WELFARE MEASURES :

8.1	(skilled, semi unskilled)	potential skilled,	a. Skilled labour Mine Foreman/ Permit Mines Manager : 1 Jack hammer operator : 3 Blaster/ mate : 2
			b. Unskilled-helper : 10
			The above manpower is adequate to meet out the
			production schedule and the machinery strength
			envisaged in the mining plan and to comply with the
			statutory provisions of the Mines Safety Regulations. It
			is been ensured that no labour employed less than 21
			years (child labours) or entertained for any kind of
	1		quarrying operations. All the labours engaged for
			quarrying operations will be insured during the quarry
			lease period.
3.2	Welfare measures		

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	BUBBLIT BUBLIC
a) Drinking water/other water requirements	Requirement Drinking & Domestic water 1.0.KLD will be arranged Dust suppression sprinkling - 1.5 KLD from nearby Afforestation of the food & entitlement sources TOTAL WATER REQUIRED - 4.0 KLD
b) Sanitary facilities	Sanitary facilities will be <u>constructed</u> with in the quarry lease area as permanent structure and it will be maintained periodically.
c) First Aid facility	First aid kits will be kept in Mines office room, in case of such eventualities, the victim will be given first aid immediately at the site and injured person will be taken to the hospital. Hospitals are available at distance of 3.5 Kms in Auvudaiyapuram PHC. The competent and Statutory Foreman/ Permit Manager will be in charge of first aid.
d) Labor Health	Periodically medical checkup related to occupational health safety will be conducted to all the workers
e)Precautionary safety measures to the laborers	All the quarry workers will be provided with safety equipments like helmets, Mine Goggles, Ear plugs, Ear muffs, Dust mask, reflector jackets and Safety Shoes as personal protective device as per the specification approved by Director of Mines Safety. Periodically medical checkup will be conducted for all workers for any mine health related problems. Proper training and induction will be given by qualified and experienced safety officer to all employees about the safe and systematic Rough stone quarrying operations. The drillers and workers will be sent for vocational training periodically to carry out the quarrying operations scientifically to safe guard the men machinery and mineral and to create awareness of conventional opencast quarrying operations.

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	PART - B II A 2 7 MAY 2022
ENVIRONMENT MANAG	EMENT PLAN :
2.1 Existing land use pattern	EMENT PLAN : The lease area is plain terrain With very gently sloping towards south. There are no agricultural activities with in 1000 m radius and the proposed lease area is dry barren lands and occasionally covered by thorny bushes. Because of rocky exposures and hard surface the area is mostly dry and barren. The agricultural activities are very limited in this area. Land use pattern within 1.0 Km radius is follows: 1. Proposed & present Quarry Area - 15% 2. Stone Crusher units - 5% 3. Village site, Roads & cart tracks - 12% 4. Green Belt & Fairly dense scrubs - 8% 5. Water bodies odai,urani& Kanmoi - 12% 6. Dry Lands - 38% 7. Seasonal Agricultural lands - 10% The land use pattern within the proposed lease area in the beginning of the lease period: Mining / Excavation at present - 1.22.2 Hectares Storage of top soil& weathered rock - 0.00.0 * Infrastructure - 0.01.0 * Mine Road - 0.03.0 * Afforestation & Mine safety - 0.86.3 * Future Mining - 2.11.5 * Undisturbed area - 0.00.0 *
	Details turnished in the Plate Nos. VIIA, VIIB, VIII

9.2	Water regime	Ground water table in this
	a second a specific	ground laugh The
		ground level. The quarrying is up to a maximum
		depth of 41m below the ground level. HendelAhe202
		quarry operation will not be affected by the ground
		water. There are few agricultural were within this the
		radius of the project area. During monsoon and rainy
		seasons the water level is at 10mts BGL and during
		summer it becomes dry.
9.3	Flora and fauna	Except acacia bushes, no other valuable trees are
		noticed in the applied area. Further, neither flora of
		botanical interest nor fauna of zoological interest is
		noticed in this area.
9.4	Climatic conditions	The area receives annual rainfall of about 820mm
		and the rainy season is mainly from Oct. – Dec.
		during North East monsoon. The summer is hot with
		maximum temperature of 42°C and winter
		encounters a minimum temperature of 23°C.
9.5	Human settlement	There are few villages located in this area within 5km radius.
		the approximate distance and population are given in Table -
		5 as above.
		Basic human welfare Amenities such as Health Center
		Schools, Communication Facilities, and Commercial Centers
		etc are available at Auvudaiyapuram village and Sattur town
		located at a distance of 3.5 kms / 15.0 Kms respectively.
9.6	Plan for air, dust	The Air quality will be affected during the guarrying period
	suppression	due to blasting and jack hammer drilling, which will be
		within prescribed limits. Mist Water spraving will be carried
ľ		out to suppress the dust in day time often as and when
		required.

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	9.7	Plan for noise level	Shallow holes of 32mm diamater and #5 feet thepth will be
		control	drilled and conventional low power explosings and as story
			Explosives, ordinary safety fuse only will be used for sough
			stone. Hence, ground vibration and the second states will be
			minimal and restricted within the quarry workings. Noise
			level monitoring and other Mitigation measures will be
			carried out to reduce Noise and Vibration. The drivers will be
			strictly instructed to move the vehicle during the
			transportation not exceeding 40 km per hour. Sentries with
			flags & whistle will be posted in village junction and regulate
1			traffic.
	9.8	Environmental	The mining plan is for a small production of Rough stone
		impact assessment	without involving deep hole drilling and heavy blasting. Such
		describing impact of	limited mining activity is not likely to cause any impact
		mining on the next	adversely on environment as far as pollution of air, water and
		five years	noise is concerned. Anyhow periodical quarterly
			environmental impact studies will be conducted as per EIA
			notification issued by MOEF.
			This quarry comes under B1 Category mine.
	9.9	Proposal for waste	The Air quality will be affected during the quarrying period
		management	due to blasting and jack hammer drilling, which will be
			controlled by spraying Mist Water to suppress dust.
	0.10	Propagal for	
	9.10	reclamation of land	The project proposed area will be fenced with stone pillars
		affected during	with sints interval and covered barbed wires with only one
	·	and at the end of	entry point for transport. There is no refilling is planned
		mining (refilling /	since all the quarried rough stone and gravel is safable and
		reneing ett.j	from the nearby completion will be filled with rain water
			from the nearby sources which will act as recharge body for
			ground water for the influence of the surrounding
			agricultural wells for agricultural purposes.

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(ii nu sp af	Programme of afforestation (indicate extend, number, name of species to be afforestated		The 1 has 1 Appro phase	0.0m & 7.5 been iden priate nativ d manner a	m safety tified to ve species s describe T	distance be util s of Nee re ed below. able – 6	ized 2 for Affo	boundar 7022 restation
			Year	No. of tress proposed to be planted	Survival rate %	Area to be covered Sq.m	Name of the species	No. of trees expecte d to be grown
			Ι	150	80%	1726	Neem	120
			Π	150	80%	1726	Pungan	120
			III	150	80%	1726	Vagai	120
			IV	150	80%	1726	Poovarsu	120
			V	150	80%	1726	Savukku	120
I. Pr (a).	roject cost	t: nt co	st :					
I. Pr (a).	Investme S. No	t: nt co	st : De	TAILS		COST	Г in Rs. /-	
I. Pı (a).	Investme S. No	nt co	st : DE se ren	TAILS t / Land C	Cost	COS ⁻ 4,	Г in Rs. /- 50,000	
I. Pı (a).	Investme S. No i) ii)	nt co	st : DE se ren chinery	TAILS t / Land C t to be us	Cost ed	COST 4, Hired	[in Rs. /- 50,000 machinery	
I. Pı (a).	Investme S. No i) ii) iii)	nt co	st : DE se ren chinery cing	TAILS t / Land C to be us	Cost ed	COST 4, Hired 2,	F in Rs. /- 50,000 machinery 50,000	
I. Pı (a).	Tinvestme S. No i) ii) iii) iii) v) v)	t : nt co Lea Mac Fen Lab	st : DE se ren hinery cing ourers itary f	TAILS t / Land C to be us Shed acility	Cost ed	COS 4, Hired 2,	F in Rs. /- 50,000 machinery 50,000 50,000	
I. Pı (a).	Investme S. No i) ii) iii) iii) v) v) vi)	t : nt co Lea Mac Fen Lab San Oth	st : DE se ren hinery cing ourers itary f er Iter	TAILS t / Land C t to be us Shed acility	Cost ed	COS 4, Hired 2,	F in Rs. /- 50,000 machinery 50,000 50,000 50,000 25,000	

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i).Mining cost for rough stone up t Total Minable quar Total cost of mining ii) Mining cost for gravel & weathered	o 5 Years plar ntity in M ³ g Rough Ston	nned producti - 4,89,30	on quantity surias and
ii) Mining cost for gravel 8 weath and		= 1,72,90 = Rs. 1.03.0	0 X Rs. 60/
Total Minable quar Total cost of mining	rock for 5 Ye ntity in M ³ g - Gravel	ars planned p - 96,090 N = 33,954 = Rs. 8	roduction quantity M ³ (33,954 Units) 4 X Rs. 25/- ,48,850/-
Total Cost for M	lining + b)	- Rs. 1,09	9,67,765/-
TI EMD Cost :		- 1(3, 1,12	-,22,830/-
GI. DETAILS	COST per MONTH (Rs.)	Total Cost per Year	TOTAL COST for 5 years LEASE
i) Drinking Water facility for 15 Laborers from water vendors	1,500	18,000	90,000
Sanitary maintenance for Rest rooms	1,500	18,000	90,000
sanitizer, gloves, etc.,)	1,000	12,000	60,000
tractor for the area	2,500	30,000	1,50,000
Maintenance	25,000 (annually)	25,000	1,25,000
testing expenses fees for every six months a. Air Monitoring b. Water analysis c. Noise Monitoring & d. Soil Testing	15,000 (bi- annual)	30,000	1,50,000
		TOTAL	6,65,000

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		BERNER BURSEN BURSEN
10. MI	NE CLOSURE PLAN :	2 7 MAY 2022
10.1	Steps proposed for phased restoration, reclamation of already mined out areas	There is no proposal for the Relation of the life of lease will be fenced to prevent inherent entry of public and cattle's and will be used for Rain Water harvesting.
10.2	Measures to be under taken on mine closure as per Act & Rules	Measure will be taken as per Act & Rules, there is no proposal for back filling, reclamation and rehabilitation. The quarry pit will be fenced by barbed wire to prevent inherent entry of public and cattle. The quarried out pit will be allowed to collect rain water which will act as a reservoir for storage and recharge pit for ground water which will enhance the static water level of nearby wells.
10.3	MITIGATION MEASURE TO BE / RECLAMATION OF THE ALRI	UNDERTAKEN FOR SAFETY AND RESTORATION
	AIR QUALITY: Air quality will be degrade due to the drilling, blasting, mining operation and transportation.	Mitigation measures: Drilling will be carried out by wet drilling mode to control the dust propagation into the air. Controlled Blasting will be carried out on limited scale. Mist Water spraying on haul road is proposed to prevent the dust propagation into the air.
	NOISE AND VIBRATION: The noise will be formed due to the drilling, blasting, loading and movement of Machineries.	The applicant has proposed to carry out the plantation all along the boundary to prevent Noise besides wet drilling will be practiced to prevent dust. All the machineries will be maintained in good conditions as per RTO and TNPCB Norms to prevent Noise, Smoke and vibration to maintain noise levels below 80dB.

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WATER REGIME :	The quarry operation (1.0m depth below Ground level) is well above the water table will not be affected in any manner. The seepage and rain water will be drained out from the pit by 5H.P motor pump and will be discharged through filter media to boundary
HUMAN HEALTH & SAFETY: Dust will be limited due to the mine operation.	sprayed on haul roads to prevent dust propagation in to the atmosphere. The rough stone quarry will not produce any harmful toxic effluence in the form of solid, liquid or gas. All the laborers will be provided with safety equipment's like helmet, Safety Goggles, Ear muff, Hand gloves, safety jacket, safety belt, and Mine boots etc., at applicant's cost, as per the
	specifications of Director of mines safety. The competent qualified person foreman/Permit Mines Manager will provide first aid and will take care of small & minor injuries. If any accident happens, the victim will be taken to the nearby hospital by the applicants van which is always kept in the mines office. Hospitals are available at distance of 3.5 Kms in Auvudaiyapuram PHC or at 15.0 kms Sattur Town GH or private hospitals.

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11. ANY OTHER DETAILS INTEND TO FURNISH BY THE APPLICANT:

- This mining plan for Rough stone (Charnockite) quarry is prepared as the Minor Mi
- The provisions of the Mines Act, Rules and Regulations and orders made there under shall be complied with, so that the safety of the mine, machinery and person will be well protected.
- Permission, relaxation or exemption wherever required for the safe and scientific quarrying of the deposit will be obtained from the Department of Mines Safety.
- Any violation pointed out by the inspecting authorities shall be rectified as per the guidelines of the Department.

Place : Virudhunagar Date 🗄

GNATURE

R. GURURAMACHANDRAN. M.Sc., Qualified Person (RQP/MAS/224/2010/A)

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ASSISTANT DIRECTOR GEOLOGY AND MINING VIRUDHUNAGAR DISTRICT VIRUDHUNAGAR

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புவியியல் மற்றும் சுரங்கத்துறை

ந.க. எண்: கேவி1/519/2020-கனிமம்,

இயக்குநர் அலுவலக கிறையுகள் பாலைப் 2 7 MAY 2022 ர். இது கரங்கத் மாலட்ட விருதுநகர்.

நாள்: 25.02.2021

குறிப்பாணை

பொருள்: கனிமங்களும் குவாரிகளும் - விருதுநகர் மாவட்டம்-மற்றும் வட்டம் - கோட்டையூர் கிராமம் பட்டா எண்.1629 பலாண்கள்.10/12 (0.58.0)LLLT எண்.1493 புலஎண்கள்.11/2A (0.27.0), 11/2C (0.24.5), 11/2D (0.24.5) 11/2E (0.52.0) 11/2F (0.23.0), 11/2G(P) (0.62.25) 11/2H(P) (0.45.0), 11/2I(P) (0.46.25) மற்றும் பட்டா எண்.1608 புலஎண்கள்.11/2J2B (0.24.5), 15/2B1 (0.37.0) மொத்தம் 4.24.0 ஹெக்டோ் பரப்பு நிலக்கில் 5 வருடங்களுக்கு உடைக்கல் மற்றும் கிராவல் குவாரி உரிமம் வழங்கக்கோரியுள்ளது - சுரங்கத்திட்டம் மற்றும் மாநில அளவிலான சு<u>ற்று</u>ச்சூழல் பாதுகாப்பு தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப்பெற்று சமர்ப்பிக்க கோருவது - தொடர்பாக.

பார்வை:

- திரு.சு.மாரிமுத்து த/பெ.சுந்தரம், 4/117, மேலத்தெரு, காடனேரி கிராமம், அ.துலுக்கப்பட்டி அஞ்சல், வத்திராயிருப்பு வட்டம், விருதுநகர் மாவட்டம் என்பவரது மனு நாள்:21.09.2020.
- 2. இவ்வலுவலக கடிதம் எண் ந.க.கேவி1/519/2020 நாள்:23.09.2020
- 3. அருப்புக்கோட்டை வருவாய் கோட்டாட்சியர் கடிதாண்.ந.க.அ2/6083/2020 நாள்:26.11.2020.
- 4. துணை இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை அவர்களின் புலத்தணிக்கை அறிக்கை நாள் : 05.01.2021
- 5. தொடர்புடைய ஆவணங்கள்.

விருதுநகர் மாவட்டம், வத்திராயிருப்பு வட்டம், 4/117, மேலத்தெரு, காடனேரி கிராமம், அ.துலுக்கப்பட்டி அஞ்சல் என்ற முகவரியைச் சேர்ந்த திரு.சு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண்.1607ல் புலஎண்கள்.10/3 (0.22.5), 10/6 (0.09.5), 10/7 (0.30.0) பட்டா எண்.1573 புலஎண்.10/4 (0.35.5) பட்டா எண்.1629 புலஎண்.10/12 (0.58.0) பட்டா எண்.1493 புலஎண்கள்.11/2A (0.27.0), 11/2C (0.24.5), 11/2D (0.24.5) 11/2E (0.52.0) 11/2F (0.23.0), 11/2G(P) (0.62.25) 11/2H(P) (0.45.0), 11/2I(P)

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(0.46.25) மற்றும் பட்டா எண்.1608 புலஎண்கள்.11/2J2B (0.24.5), 15/2B1 (0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு நிலத்தில் பத்து வருடங்களுக்கு உடைகல், மற்றும் கிராவல் குவாரி உரிமம் வழங்கக் கோரி பார்வை 1-ல் காணும் மனுவில் விண்ணப்பம் செய்துள்ளார்.

அருப்புக்கோட்டை வருவாய் கோட்டாட்சியர் மற்றும் துணை இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை ஆகியோர் கீழ்காணும் நிபந்தனைகளுக்குட்பட்டு பரிந்துரை செய்துள்ளனர்.

- அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீ பாதுகாப்பு இடைவெளி விடவேண்டும்.
- புலஎண்.10/8-ல் செல்லும் ஒடை மற்றும் வண்டிப்பாதைக்கு பாதுகாப்பு இடைவெளி விடவேண்டும்.
- புலஎண்.11/2H-ல் உள்ள கோவிலுக்கு பாதுகாப்பு இடைவெளி விடவேண்டும்.
- குவாரி கழிவுகளை குத்தகை உரிமம் வழங்கப்படும் பகுதிக்கு உள்ளேயே இருப்பு வைக்க வேண்டும்.
- 5) வெடிமருந்தினை விதிகளின்படி பாதிப்பு ஏற்படா வண்ணம் பயன்படுத்த வேண்டும்.
- 6) சுரங்கத்திட்டம் மற்றும் சுற்றுச்சூழல் தடையில்லாச் சான்று குத்தகை உரிமம் வழங்குவதற்கு முன் சமர்ப்பிக்க வேண்டும்.

மேற்கூறிய <u>அலு</u>வலர்களின் பரிந்துரையினை ஏற்றும் நிபந்தனைகளுக்கு உட்பட்டும், விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் புலஎண்.10/8-ல் செல்லும் ஒடை மற்றும் வண்டிப்பாதைக்கு போதிய பாதுகாப்பு இடைவெளி தூரம் கடைப்பிடிக்கப்படவேண்டிய நிலையில் பின்வரும் புலஎண்கள்.10/3 (0.22.5), 10/6 (0.09.5), 10/7 (0.30.0) 10/4 (0.35.5)-ல் 0.97.5 ஹெக்டேர் பரப்பு நீக்கம் செய்து இதர பட்டா எண்.1629 புலஎண்கள்.10/12 (0.58.0) பட்டா எண்.1493 புலஎண்கள்.11/2A (0.27.0), 11/2C (0.24.5), 11/2D (0.24.5) 11/2E (0.52.0) 11/2F (0.23.0), 11/2G(P) (0.62.25) 11/2H(P) (0.45.0), 11/2I(P) (0.46.25) மற்றும் பட்டா எண்.1608 புலஎண்கள்.11/2J2B (0.24.5), 15/2B1 (0.37.0) மொத்தம் 4.24.0 ஹெக்டேர் பரப்பு நிலத்திற்கு மட்டும் 1959ம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள் விதி எண்: 19 மற்றும் 20-ன்படி ஐந்து வருடகாலத்திற்கு உடைகல், மற்றும் கிராவல் குவாரி பணி செய்ய தகுதி வாய்ந்த நிலப்பரப்பாக கருதப்படுகிறது.

S. Dont Bark
மேலும் தமிழ்நாடு சிறுகனிம சலுகை லிதிகள்-விதி எண்:41ன்படி குவாரி பணி மேற்கொள்வது தொடர்பர E Colonia Briniss திட்டத்தினை (Mining Plan) 90 தினங்களுக்குள் சமர்ப்பிக்குமாகம் மாநில 42-ன்படி அளவிலான சுற்றுச்சூழல் பாதுகாப்பு தாக்க மதிப்பீட்டு ஆணையத்தின் (State Level Environmental Impact Assessment Authority Clearance) இசைவினைப் பெற்று சமர்ப்பிக்குமாறும் மனுதாரர் கேட்டுக் கொள்ளப்படுகிறார்.

லைக்குதர் அதுக்க

துணை இயக்குநர் புவியியல் மற்றும் ரங்கத்துறை விருதுநகர்

பெறுநா் திரு.சு.மாரிமுத்து த/பெ.சுந்தரம், 4/117, மேலத்தெரு, காடனோி கிராமம், அ.துலுக்கப்பட்டி அஞ்சல், வத்திராயிருப்பு வட்டம்.

25/2/21

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இயக்குநா அவு 2 7 MAY 2 விருதாகம் William & orginion Mining Plan: Thiru.S.Marimuthu Rough Stone & Gravel Quarry: ANNEXURE Π **REVENUE DIVISIONAL OFFICER & REVENUE DEPARTMENT REPORTS**



அனுப்பநர்:

திரு. கே.எஸ். முருகேசன்,பி.ஏ., வருவாய் கோட்டாட்சியர், அருப்புக்கோட்டை.

பெறுநர் MAY 2022 மாவட்ட அ hair ல் காங்கத விருதுநகர் மான விருதுநகர்.

ந.க.அ2/6083/2020

நாள்: 26.11.2020

அய்யா,

பொருள்:

கனிமங்களும் குவாரிகளும் - விருதுநகர் மாவட்டம் மற்றும் வட்டம் கோட்டையூர் கிராமம் - பட்டா எணா:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் பல எண்:10/4(0.35.5), பட்டா எண். 1629-ல் பல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் LO eroories of: 11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) பற்றும் பட்டா எண். 1608-ல் цø) எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டோ் பரப்பு நிலத்தில் 10 உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க வருடங்களுக்கு கோரியுள்ளது - கருத்துரு அனுப்புதல் - தொடர்பாக.

பார்வை:

- மாவட்ட ஆட்சியர் அலுவலக கடிதம் ந.க.கே.வி.1/519/2020, நாள் : 23.09.2020
 விருதுருகர் வருவாய் வட்டாட்சியர் அலுவலக கடிதம்.
 - மூ.மு.ஆ4/5218/2020, நாள்: 16.11.2020

விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), លញ់ញាល់ 11/2H(0.45.0), 11/2I(0.46.25) பட்டா எண். 1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹொக்டோ் பரப்பு நிலத்தில் கதவு எண்:4/117, மேலத்தெரு, காடனோி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் சேர்ந்த திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் 10 வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமும் வழங்க கோரிய மனு தொடர்பாக, பார்வை 1-ல் காணும் கடிதத்தில் அறிக்கை கோரப்பட்டது தொடர்பாக பார்வை 2-ல் அறிக்கை வரப்பெற்றதைத் தொடர்ந்து விருதுநகர் வட்டாட்சியர், மண்டல துணை வட்டாட்சியர்-(), வட்ட சார் ஆய்வாளர், வருவாய் ஆய்வாளர் மற்றும் கிராம நீள்வாக அலுவலர் ஆகியோருடன் கிராமக் கணக்குகளைக் கொண்டு 24.11.2020 அன்று புலத்தணிக்கை செய்யப்பட்டது. இந்நோவில் எனதறிக்கையினை கீழ்க்காணுமாறு சமர்ப்பிக்கிறேன்.

S-LORA F32

1. De LARDE

விருதுநகர் வட்டம், வச்சக்காரப்பட்டடி குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0),11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு புஞ்சை நிலம் செல்லமுத்து மகன் செல்வராஜ்பாண்டி என்ற பெயரில் கிராம கணக்கில் தருக்கலாகியுள்ளது.

2. தில அமைப்பு-

விருதுநகர் வட்டம், வச்சக்காரப்பட்டடி குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எணா:1067-ல் புல எனக்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல crossiteseit:11/2A(0.27.0),11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எணக்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹொக்டோ பரப்பு நிலங்களை புலத்தணிக்கை செய்ததில், மேற்படி புல எண்ணை புல தணிக்கை செய்யும் போது 300 மீட்டர் சுற்றளவில் குடியிருப்பு பகுதிகள் ஏதும் இல்லை. 50 மீட்டர் சுற்றளவில் சாலைகள், ரயில் இருப்பு பாதைகள், புராதானச்சின்னங்கள், மின் கம்பிகள், நீர நிலை ஆதாரங்கள் மற்றும் வேறு நிரந்தர அமைப்புகள் ஏதும் இல்லை. மேற்படி உரிமம் கோரியுள்ள புல எண்.11/2н-ன் வடகிழக்கு மூலையில் பங்காளிகளுக்கு பாத்தியப்பட்ட பேச்சியம்மன் கோவில் உள்ளது. உரிமம் கோரியுள்ள புல எண்கள்: 10/3, 10/4, 10/6, 10/7 ஆகிய புல எணர்களுக்கு கிழக்கில் புல எண்:10/8-ல் ஓடை மற்றும் வண்டிப்பாதை செல்கிறது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி 1/620/2014 நாள்:24.09.2014-ன் படி, 11/2A(0.27.0) ஏர்ஸ், புல எனர் 11/2C(0.24.5)ஏர்ஸ், புல எணர் 11/2D(0.24.5)ஏர்ஸ், புல எணர் 11/2E(0.52.0)ஏர்ஸ், புல எணர் 11/2F(0.23.0), புல எணர் 11/2G(0.62.25)ஏர்ஸ், பல எண் 11/2I(0.46.25) ஏர்ஸ் பரப்பு நிலங்களுக்கு திருநெல்வேலி மாவட்டம், கடையநல்லூர், மாவடி கால், சுதவு எண்:8/17 என்ற முகவரியைச் சேர்ந்த திரு.லட்சுமணன் மகன் முனியசாமி என்பவருக்கு 25.09.2014 முதல் 24.09.2019 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/522/2004 நாள்:06.01.2005-ன் படி, புல எண் 10/3(0.22.5)ஏர்ஸ், புல எண்:10/4(0.35.5) ஏர்ஸ் புல எண் 10/6(0.09.5)ஏர்ஸ், புல எண் 10/7(0.30.0)ஏர்ஸ் பரப்பு நிலங்களுக்கு திரு.கூழ்வாழவந்தான் என்பவருக்கு 06.01.2005 முதல் 05.01.2010 வரை குவாரி உரியம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/360/2005 நாள்:28.07.2005-ன் படி புல எண்:11/2.J2, 15/2B1 மனுதாரா திரு.தன்னாசிமுத்து என்பவருக்கு 28.07.2005 முதல் 27.07.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. மேற்படி குவாரி உரிமம் பெற்ற புல எண்களில் சுமார் 30 அடி பள்ளம் உள்ளது. மேலும், மனுதாரர் திரு.மாரிமுத்து த/பெ.சுந்நதரம் என்பவர் குவாரி உரிமம் பெற பட்டாதாரர் திரு.செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரிடமிருந்து நோட்டரி பப்ளிக் முன்னிலையில் 12 வருடங்களுக்கு ஒப்பந்த உறுதி மொழி பத்திரம் பெற்றுள்ளார். மேற்படி ஒப்பந்த உறுதி மொழி பத்திர எண்:BC371870 மற்றும் BC371871, நாள்:05.11.2020

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மேற்படி குவாரி உரிமம் கோரியுள்ள புல எண்களுக்கு அனுகு மானத வசதி உள்ளது. மேற்படி புல எண் கோட்டையூர் பஞ்சாயத்து மற்றும் விருதுநகர் ஊராட்சி எணைக்கு? உட்பட்டது. மேலும், மேற்படி குவாரி உரிமம் தொடர்பாக கிராமத்தில் அ1_வலிளம்பாம் பிரசுரிக்கப்பட்டதில் பொதுமக்களிடம் இருந்து ஆட்சேபணை ஏதும் வரப்பெற்றில்றை காங்கத்தி

இயக்குநர் அலுவ குறைகள் மான்

3.நான்குமால் விபரம்:--

விருத்துகர் வட்டம், வச்சக்காரப்பட்டடி குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0),11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு புஞ்சை நிலம் செல்லமுத்து மகன் செல்வராஜ்பாலாடி என்ற பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. மேற்படி நிலங்களுக்கு நான்கு மால் விபரம்.

புல எண்:10/3 - நான்குமால் விபரம்-

வடக்கு	:	4/7 - புஷ்பம்மாள் புஞ்சை நிலம்
தெற்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு பறும்போக்கு ஒடை(ம) வண்டிப்பாதை
மேற்கு	:	10/2 - புஷ்பம்மாள் புஞ்சை நிலம்

பல எண்:10/6 - நான்குமால் விபரம்:-

வடக்கு	:	10/7 – செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/1 - வண்டிப்பாதை
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/5 - ரஞ்சிதம்மாள் புஞ்சை நிலம்

புல எண்:10/7 - நான்குமால் விபரம்:-

வடக்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	10/6 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு		10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எனர்:10/4 - நான்குமால் விபரம்-

வடக்கு	:	10/3 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	10/5 - ரஞ்சிதம்மாள் புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஒடை(ம) வண்டிப்பாதை
மேற்கு	:	10/2 - புஷ்பம்மாள் புஞ்சை நிலம்

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பல எண்:10/12 - நான்குமால் விபரம்-

Г	வடக்கு	1:	10/11 - காசி வகை புஞ்சை நிலம்
	தெற்கு	1	11/2ஏ - செல்வராஜ்பாண்டி புஞ்சை நிலம்
1	கிழக்கு	:	11/2ஜி - செல்வராஜ்பாண்டி புஞ்சை நிலம்
1.	மேற்கு	:	10/8- அரசு புறம்போக்கு ஒடை(ம) வண்டிப்பாதை

புல எனர்:11/2ஏ - நாள்குமால் விபரம்-

வடக்கு	:	10/12 – மகேஷ்வரி புஞ்சை நிலம்
தெற்கு	:	11/2பி - முனியராஜ் புஞ்சை நிலம்
கிழக்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/1 - வண்டிப்பாதை

புல எண்:11/2C - நான்குமால் விபரம்:-

வடக்கு	1.	11/2B - முனியராஜ் புஞ்சை நிலம்
தெற்கு	:	14/2 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்

புல எனர்:11/2D - நான்குமால் விபரம்:-

வடக்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்
தெற்கு	:	14/2 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2C - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2E - நான்குமால் விபரம்:-

வடக்கு	:	11/2F - செல்லராஜ்பாண்டி புஞ்சை நிலம்	
தெற்கு	:	14/2 - கிருஷ்ணசாயி புஞ்சை நிலம்	
கிழக்கு	:	11/2J1 - கிருஷ்ணசாமி புஞ்சை நிலம்	00110
மேற்கு	:	11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம்	1

புல எண்:11/2F - நான்குமால் விபரம்-

வடக்கு	:	11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	11/2I – செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்

புல எண்:11/2G - நான்குமால் விபரம்-

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வடக்கு	:	10/12- மகேஷ்வரி புஞ்சை நிலம்
தெற்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	11/2H - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2A - செல்வராஜ்பாண்டி புஞ்சை நிலம்

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புல எண்:11/2H - நான்குமால் விபரம்:-

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தெற்கு

கிழக்கு

மேற்கு

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புல எண்:11/21 - நான்குமால் விபரம்:-

வடக்கு	:	11/2H - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/2J1 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்

11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்

11/2I - செல்வராஜ்பாண்டி புஞ்சை நிலம்

11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்

28/12 - பெருமாள் புஞ்சை நிலம்

புல எண்:11/2J2B - நான்குமால் வியரம்-

வடக்கு	1:	11/2ஐ - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
தெற்கு	:	15/2ஏ - கிருஷ்ணசாமி புஞ்சை நிலம்	
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்	
மேற்கு	:	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்	

பல எனர்:15/2B1 - நான்குமால் வியரம்:-

வடக்கு	:	11/2J2 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	15/2B2 - ராஜேந்திரன் புஞ்சை நிலம்
கிழக்கு	1	27/1 - 2501_
மேற்கு	:	15/2A – கிருஷ்ணசாமி புஞ்சை நிலம்

4.பாதை வசதி:-

மேறப்டி உரிமம் கோரியுள்ள புலங்களுக்கு செல்ல அணுகு பாதை வசதி உள்ளது.

5.பரிந்துரை:

மனுதாரர் சமர்பித்துள்ள ஆவணங்களின்படியும், சம்பந்தப்பட்ட கிராம நிர்வாக அலுவலர், வருவாய் ஆய்வாளர், குறுவட்ட நில அளவர் மற்றும் விருதுநகர் மண்டல துணை பரிந்துரையின்பேரிலும், புலத்தணிக்கையின் வட்டாட்சியரின் அடிப்படையிலும், ക്ക്രഖ്യ எண்:4/117, மேலத்தெரு, காடனேரி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் திரு.மளிமுத்து த/பெ.சுந்தரம் என்பவர் சேர்ந்த பட்டா नवाने :1067-ல் பல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0). 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), எண்.1608-ல் 11/2H(0.45.0), 11/21(0.46.25) மற்றும் ULLI பல

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எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 521.5 ஹெக்டேர் பரப்பு நிலத்தில் 10 வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவரி உரிமம் வழங்க பரிந்துரை செய்கிறேன் என்பதைப் பணிவுடன் தெரிவித்துக் கொள்கிறேன். இணைப்பு:

- 1. வட்டாட்சியர் அறிக்கை
- 2. "அ" பதிவேட்டின் நகல்
- 3. புலப்பட நகல்
- 4. கிராம வரைபடம்
- 5. கூட்டு வரைபடம்
- 6. "அ1" விளம்பர நோட்டிஸ்
- 7. களிமவரி பாக்கி அபிடவட்

2

8. கணினி 10-1

6.3

(ஒம்.)கே.எஸ். முருகேசன், வருவாய் கோட்டாட்சியர், அருப்புக்கோட்டை

நோழக உதவியாளர்

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/உத்தரவுப்படி/

S. Lonheige

புலத்தணிக்கை குறிப்பு

MAY 7022

புல தணிக்கை அலுவலரின் பெயர் மற்றும் பதவி	E	திரு. ச. செல்லப்பா, B.A., வருவாய் கோட்டாட்சியர், அருப்புக்கோட்டை.
லட்டம்	:	விருதுநகர் வட்டம்.
கிராமம்	:	கோட்டையூர் கிராமம்.
പ്പல எண்கள்		பட்டா எண்:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்:10/12(0.58.0), பட்டா எண்கள்:11/2A(0.27.0),11/2C(0.24.5),11/2D(0.24. 5),11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) யொத்தம் 5.21.5 ஹெக்டோ் பரப்பு
நோக்கம்	:	10 வருடங்களுக்கு கிராவல் உடைகல் குவாரி உரிமம் வழங்க கோரியது
புலத்தணிக்கை நாள்	1	24.11.2020

விருதநைகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எணக்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண். 1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), பட்டா எண். 1608-ல் ្រុស எணக்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டோ் பரப்பு நிலத்தில் கதவு எண்:4/117, மேலத்தெரு, காடனோரி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் சேர்ந்த திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் 10 வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க கோரிய மனு தொடர்பாக, பார்வை 1-ல் காணும் கடிதத்தில் அறிக்கை கோரப்பட்டது தொடர்பாக பார்வை 2-ல் அறிக்கை வரப்பெற்றதைத் தொடர்ந்து விருதுநகர் வட்டாட்சியர், மண்டல துணை வட்டாட்சியா்-!!, வட்ட சாா் ஆய்வாளர், வருவாய் ஆய்வாளர் மற்றும் கிராம நிர்வாக அலுவலர் ஆகியோருடன் கிராமக் கணக்குகளைக் கொண்டு 24.11.2020 அன்று புலத்தணிக்கை செய்யப்பட்டது. இந்நோவில் எனதறிக்கையினை கீழக்காணுமாறு சமர்ப்பிக்கிறேன்.

5. Danie Gar

1.நில உரிமை-

விருதுநகர் வட்டம், வச்சக்காரப்பட்ட (குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0);11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு புஞ்சை நிலம் செல்லமுத்து மகன் செல்வராஜ்பாண்டி என்ற பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது.

2,கில அமைப்பு-

விருதுநகர் வட்டம், வச்சக்காரப்பட்டடி குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0),11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0). 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டோ் பரப்பு நிலங்களை புலத்தணிக்கை செய்ததில், மேற்படி புல எண்ணை புல தணிக்கை செய்யும் போது 300 மீட்டர் சுற்றளவில் குடியிருப்பு பகுதிகள் ஏதும் இல்லை. 50 மீட்டர் சுற்றளவில் சாலைகள், ரயில் இருப்பு பாதைகள், புராதானச்சின்னங்கள், மின் கம்பிகள், நீர நிலை ஆதாரங்கள் மற்றும் வேறு நிரந்தர அமைப்புகள் ஏதும் இல்லை. மேற்படி உரிமம் கோரியுள்ள புல எண்.11/2н-ன் வடகிழக்கு மூலையில் பங்காளிகளுக்கு பாத்தியப்பட்ட பேச்சியம்மன் கோவில் உள்ளது. உரிமம் கோரியுள்ள புல எண்கள்: 10/3, 10/4, 10/6, 10/7 ஆகிய புல எண்களுக்கு கிழக்கில் புல எண்:10/8-ல் ஒடை மற்றும் வண்டிப்பாதை செல்கிறது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி 1/620/2014 நாள்:24.09.2014-ன் படி, 11/2A(0.27.0) ஏர்ஸ், புல எண் 11/2C(0.24.5)ஏர்ஸ், புல எண் 11/2D(0.24.5)ஏர்ஸ், புல எண் 11/2E(0.52.0)ஏர்ஸ், புல எண் 11/2F(0.23.0), புல எண் 11/2G(0.62.25)ஏர்ஸ், புல எண் 11/2I(0.46.25) ஏா்ஸ் பரப்பு நிலங்களுக்கு திருநெல்வேலி மாவட்டம், கடையநல்லூர், மாவடி கால், கதவு எண்:8/17 என்ற முகவரியைச் சேர்ந்த திரு.லட்சுமணன் மகன் முனியசாமி என்பவருக்கு 25.09.2014 முதல் 24.09.2019 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/522/2004 நாள்:06.01.2005-ன் படி, புல எண் 10/3(0.22.5)ஏர்ஸ், புல எண்:10/4(0.35.5) ஏா்ஸ் புல எண் 10/6(0.09.5)ஏா்ஸ், புல எண் 10/7(0.30.0)ஏா்ஸ் பரப்பு நிலங்களுக்கு திரு.கூழ்வாழவந்தான் என்பவருக்கு 06.01.2005 முதல் 05.01.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/360/2005 நாள்:28.07.2005-ன் படி புல எண்:11/2J2, 15/2B1 மனுதாரர் திரு.தன்னாசிமுத்து என்பவருக்கு 28.07.2005 முதல் 27.07.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. மேற்படி குவாரி உரிமம் பெற்ற புல எண்களில் சுமார் 30 அடி பள்ளம் உள்ளது. மேலும், மனுதாரா் திரு.மாாிமுத்து த/பெ.சுந்நதரம் என்பவா் குவாாி உரிமம் பெற பட்டாதாரர் திரு.செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரிடமிருந்து நோட்டரி பப்ளிக் முன்னிலையில் 12 வருடங்களுக்கு ஒப்பந்த உறுதி மொழி பத்திரம் பெற்றுள்ளார். மேற்படி ஒப்பந்த உறுதி மொழி பத்திர எண்:BC371870 மற்றும் BC371871, நாள்:05.11.2020 மேற்படி குவாரி உரிமம் கோரியுள்ள புல எண்களுக்கு அனுகு பாதை வசதி உள்ளது.

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மேற்படி புல எண் கோட்டையூர் பஞ்சாயத்து மற்றும் விருதாதால் இயக்குநர் அலுவல மற்படி பல எண் கோட்டையூர் பஞ்சாயத்து மற்றும் விருதாதால் இயக்குநர் அலுவல உட்பட்டது. மேலும், மேற்படி குவாரி உரிமம் தொடர்பாக கிராமத்தில் அ1, விளப்புரம் பிரசுரிக்கப்பட்டதில் பொதுமக்களிடம் இருந்து ஆட்சேபணை ஏதும் வரப்பெறவில்லை.

விருதுநகர்

3.நான்குமால் விடரம்:-

வியியல் & சுரங்கத்த விருதுநகர் வட்டம், வச்சக்காரப்பட்டடி குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் எண்கள்:11/2A(0.27.0),11/2C(0.24.5), பல 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு புஞ்சை நிலம் செல்லமுத்து மகன் செல்வராஜ்பாண்டி என்ற பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. மேற்படி நிலங்களுக்கு நான்கு மால் விபரம்.

புல எண்:10/3 - நான்குமால் விடரம்:-

வடக்கு	1:	4/7 - புஷ்பம்மாள் புஞ்சை நிலம்
தெற்கு	1:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு புறும்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/2 - புஷ்பம்மாள் புஞ்சை நிலம்

வடக்கு	:	10/7 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/1 - வண்டிப்பாதை
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/5 - ரஞ்சிதம்மாள் புஞ்சை நிலம்

புல எண்:10/7 - நான்குமால் விபரம்:-

வடக்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	1:	10/6 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்

வடக்கு	:	10/3 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	10/5 - ரஞ்சிதம்மாள் புஞ்சை நிலம்
கிழக்கு	1:	10/8- அரசு புறம்போக்கு ஒடை(ம) வண்டிப்பாதை
மேற்கு	:	10/2 – புஷ்பம்மாள் புஞ்சை நிலம்

வடக்கு	:	10/11 - காசி வகை புஞ்சை நிலம்
தெற்கு	:	11/2ஏ – செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	11/2ஜி - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை

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புல எண்:11/2ஏ - நான்குமால் விபரம்:-

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வடக்கு	:	10/12 - மகேஷ்வரி புஞ்சை நலய
தெற்கு	:	11/2பி - முனியராஜ் புருவச நலை
கிழக்கு	1	11/2F - செல்வராஜபாண்டி புளுவல் நல்ல
Gunnites	:	11/1 - ഖങ്ങപ്പ്പന്തള

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புல எண்:11/2C - நான்குமால் **விபரம்:-**

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வடக்கு	1:	11/2B - முனியராஜ் புஞ்சை நலய
கொரு	1:	14/2 - கிருஷ்ணசாமி புருசை நலை
கியக்கு	:	11/2D - செல்வராஜ்பாண்டி புருமை நல்ய
Ginman	1:	11/2B - முனியராஜ் புஞ்சை நிலம

புல எண்:11/2D - நான்குமால் விபரம்:-

		i - Davis
வடக்கு	1	11/2B - முனியராஜ் புஞ்சை நமை
கெற்க	:	14/2 - கிருஷ்ணசாய் புருசை நலய
கியக்கு	1:	11/2E - செல்வராஜ்பாண்டி புஞ்சை நடைய
Cum/5	1:	11/2C - செல்வராஜ்பாண்டி புஞ்சை நிலய

புல எண்:11/2E - நாள்குமால் விபரம்:-

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வடக்கு	:	11/2F - செல்வராஜ்பாண்டி புருஸ்ச நலம
கெற்கு	:	14/2 - கிருஷ்ணசாப்பட்டுமைச் நல்ய
கிழக்கு	:	11/2J1 - கிருஷ்ணசாம் புருலச் நான
ធំណាំ(ភ្	:	11/2D - செல்வராஜ்பாண்டி புருவச நல்ய

புல எண்:11/2ஈ - நான்குமால் விபரம்-

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வடக்கு	:	11/2G - செல்வராஜ்பாணடி புருமை நலைய
கொர்கு	:	11/2E - செல்வராஜ்பாண்டி புருவச நல்ய
கிமக்கு	:	11/2I - செல்வராஜ்பாண்டி புருசை நல்ய
மேற்கு	1:	11/2B - முனியராஜ் புஞ்சை நலய

புல எண்:11/2G - நாள்குமால் விபரம்:-

S. Constants	-	பல (12 மகேஸ்வரி பன்சை நிலம்
வடக்கு	1	10/12- மகேஷ்யா புருண்டி பல்னசு நிலம்
கெற்கு		11/2F - செலவராஜபாண்டி புள்ளச் நிலும்
கிழக்கு	:	11/2H - செல்வராஜ்பாண்டி புருமைச நடை
Ginmites	1:	11/2A - செல்வராஜ்பாண்டி புருவச நலை

புல எண்:11/2H - நான்குமால் விரும்-

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வடக்கு	:	11/2G - செல்வராஜ்பாண்டி புருவச நலம
கெற்கு	:	11/2I - செல்வராஜ்பாண்டி புஞ்சை நல்ய
கியக்கு	1:	28/12 - பெருமாள் புஞ்சை நடை
Gunnita	1:	11/2F - செல்வராஜபாண்டி பருசை நல்க

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லைக்குநர் கி நகு நகர் பிர்க MAY 2022 Musico & angria

புல எண்:11/2I - நான்குமால் விரம்:-

வடக்கு	:	11/2H - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
தெற்கு	:	11/2J1 - கிருஷ்ணசாயி புஞ்சை நிலம்	;
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்	
மேற்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
นด) สุด ช้ำ11/	2.12	B - நாள்குமால் வியாம்-	-

வடக்கு	:	11/2ஐ - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
தெற்கு	:	15/2ஏ – கிருஷ்ணசாமி புஞ்சை நிலம்	-
கிழக்கு	1:	28/12 - பெருமாள் புஞ்சை நிலம்	
மேற்கு	:	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
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பல எண: 15/281 - நானகுமால விபரம்:-

வடக்கு	:	11/2J2 - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
தெற்கு	:	15/2B2 - ராஜேந்திரன் புஞ்சை நிலம்	
கிழக்கு	1:	27/1 - ஒடை	
மேற்கு	:	15/2A – கிருஷ்ணசாமி புஞ்சை நிலம்	
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4.பாதை வசத்!~

மேற்படி உரிமம் கோரியுள்ள புலங்களுக்கு செல்ல அணுகு பாதை வசதி உள்ளது. 5.பரிந்துரை:

மனுதாரர் சமர்பித்துள்ள ஆவணங்களின்படியும், சம்பந்தப்பட்ட கிராம நிர்வாக அலுவலர், வருவாய் ஆய்வாளர், குறுலட்ட நில அளவர் மற்றும் விருதந்கர் மண்டல துணை வட்டாட்சியரின் பரிந்துரையின்பேரிலும், புலத்தணிக்கையின் அடிப்படையிலும், ക്ക്ബ எண்:4/117, மேலத்தெரு, காடனேரி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் Conition திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் ULLIT :1067-ல் எண் പ്പல எணக்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் பல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எணர்:10/12(0.58.0), பட்டா எணர்:1493-ல் புல எணர்கள்:11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2I(0.46.25) លញ៉ាញចេ 11/2H(0.45.0), ULLT எண். 1608-ல் பல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டோ பரப்பு நிலத்தில் 10 வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க பரிந்துரை செய்கிறேன் என்பதைப் பணிவுடன் தெரிவித்துக் கொள்கிறேன்.

வருவாய் கோ டாட்சியர். அருப்புக்கோட்டை

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அனுப்புநர்:

திருமதி.வ.முத்துலட்சுமி,பி.ஏ., வருவாய் வட்டாட்சியர், விருதுநகர்.

COL BUIG BILD
Gumunt:
வருவாய் கேரு ாட்சியா் வருவாய் கேரு ாட்சியா் வருதுநகா்
அருப்புக்கோதன்பல் கேரங்கத்தில் ப

an international states and

மு.மு.ஆ4/5218/2020

நாள்: .11.2020

அய்யா,

- கனிமங்களும் குவாரிகளும் விருதுநகர் மாவட்டம் மற்றும் வட்டம் -பொருள்: கோட்டையூர் கிராமம் - பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் பல எண்:10/4(0.35.5), பட்டா எண்:1493-ல் பல எண்:10/12(0.58.0), பட்டா எண்.1629-ல் பல எண்கள்:11/2A(0.27.0),11/2C(0.24.5),11/2D(0.24.5),11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) எண்கள்:11/2J2B(0.24.5), எண்.1608-ல் പல பட்டா ບຕໍ່ກາບ້ பரப்பு நிலத்தில் ஹெக்டேர் 10 15/2B1(0.37.0) யொத்தம் 5.21.5 குவாரி கிராவல் உரிமம் வழங்க வருடங்களுக்கு உடைகல் மற்றும் கோரியுள்ளது - கருத்துரு அனுப்பக் கோருதல் - தொடர்பாக.
- பார்வை: அருப்புக்கோட்டை வருவாய் கோட்டாட்சியர் அவர்களின் கடித எண் ந.க.அ2/6083/2020 நாள்: 30.09.2020

விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எணக்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), எண்.1608-ல் പ്രഖ លញុំហាច្នា ULLT 11/2I(0.46.25) 11/2H(0.45.0), எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு நிலத்தில் கதவு எண்:4/117, மேலத்தெரு, காடனேரி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் சேர்ந்த திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் 10 வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க கோரிய மனு தொடர்பாக, மேறகண்ட இடத்தை புலத்தணிக்கை செய்து விரிவான அறிக்கை அனுப்பி வைக்குமாறு பார்வையில் காணும் கடிதத்தில் தெரிவிக்கப்பட்டுள்ளது.

மேற்கண்ட இடம் 麊 🕧 அன்று என்னால் புலத்தணிக்கை செய்யப்பட்டது.

1.நில உரிமை:-

விருதுநகர் வட்டம், வச்சக்காரப்பட்டடி குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0),11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா

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எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு புஞ்சை நிலம் செல்லமுத்து மகன் செல்வராஜ்பாண்டி என்ற பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது.

2.நில அமைப்பு:-

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விருதுநகர் வட்டம், வச்சக்காரப்பட்டடி குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எண்:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் 11/2E(0.52.0), 11/2D(0.24.5), எண்கள்:11/2А(0.27.0),11/2С(0.24.5), மற்றும் பட்டா 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டோ் பரப்பு நிலங்களை புலத்தணிக்கை செய்ததில், மேற்படி புல எண்ணை புல தணிக்கை செய்யும் போது 300 மீட்டர் சுற்றளவில் குடியிருப்பு பகுதிகள் ஏதும் இல்லை. 50 மீட்டர் சுற்றளவில் சாலைகள், ரயில் இருப்பு பாதைகள், புராதானச்சின்னங்கள், மின் கம்பிகள், நீர் நிலை ஆதாரங்கள் மற்றும் வேறு நிரந்தர அமைப்புகள் ஏதும் இல்லை. மேற்படி உரிமம் கோரியுள்ள புல எண்.11/2н-ன் வடகிழக்கு மூலையில் பங்காளிகளுக்கு பாத்தியப்பட்ட பேச்சியம்மன் கோவில் உள்ளது. உரிமம் கோரியுள்ள புல எண்கள்: 10/3, 10/4, 10/6, 10/7 ஆகிய புல எண்களுக்கு கிழக்கில் புல எண்:10/8-ல் ஒடை மற்றும் வண்டிப்பாதை செல்கிறது. விருதுநகர் மாவட்ட ஆட்சியா அவா்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/620/2014 நாள்:24.09.2014-ன் படி, 11/2A(0.27.0) ஏர்ஸ், பல எண் 11/2C(0.24.5)ஏர்ஸ், பல எண் 11/2D(0.24.5)ஏர்ஸ், புல எண் 11/2E(0.52.0)ஏர்ஸ், புல எண் 11/2F(0.23.0), புல எண் 11/2G(0.62.25)ஏர்ஸ், புல எண் 11/2I(0.46.25) ஏா்ஸ் பரப்பு நிலங்களுக்கு திருநெல்வேலி மாவட்டம், கடையநல்லூர், மாவடி கால், கதவு எண்:8/17 என்ற முகவரியைச் சேர்ந்த திரு.லட்சுமணன் மகன் முனியசாமி என்பவருக்கு 25.09.2014 முதல் 24.09.2019 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/522/2004 நாள்:06.01.2005-ன் படி, புல எண் 10/3(0.22.5)ஏர்ஸ், புல எண்:10/4(0.35.5) ஏா்ஸ் புல எண் 10/6(0.09.5)ஏா்ஸ், புல எண் 10/7(0.30.0)ஏா்ஸ் பரப்பு நிலங்களுக்கு திரு.கூழ்வாழவந்தான் என்பவருக்கு 06.01.2005 முதல் 05.01.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/360/2005 நாள்:28.07.2005-ன் படி புல எண்:11/2J2, 15/2B1 மனுதாரா திரு.தன்னாசிமுத்து என்பவருக்கு 28.07.2005 முதல் 27.07.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. மேற்படி குவாரி உரிமம் பெற்ற புல எண்களில் சுமார் 30 அடி பள்ளம் உள்ளது. மேலும், மனுதாரா் திரு.மாரிமுத்து த/பெ.சுந்நதரம் என்பவா் குவாரி உரிமம் பெற பட்டாதாரா் திரு.செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவாிடமிருந்து நோட்டரி பப்ளிக் முன்னிலையில் 12 வருடங்களுக்கு ஒப்பந்த உறுதி மொழி பத்திரம் பெற்றுள்ளார். மேற்படி ஒப்பந்த உறுதி மொழி பத்திர எண்:BC371870 மற்றும் BC371871, நாள்:05.11.2020 மேற்படி குவாரி உரிமம் கோரியுள்ள புல எண்களுக்கு அனுகு பாதை வசதி உள்ளது. மேற்படி புல எனர் கோட்டையூர் பஞ்சாயத்து மற்றும் விருதுநகர் ஊராட்சி எல்கைக்கு உட்பட்டது. மேலும், மேற்படி குவாரி உரிமம் தொடர்பாக கிராமத்தில் அ1 விளம்பரம் பிரசுரிக்கப்பட்டதில் பொதுமக்களிடம் இருந்து ஆட்சேபணை ஏதும் வரப்பெறவில்லை. விண்ணப்பதாரா்– இதில் கல்குவாரி உரிமம் செய்ய உரிமம் வழங்கலாம் என் பரிந்துரை செய்யலாம்.

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3.நான்குமால் விபரம்:-

விருதுநகர் வட்டம், வச்சக்காரப்பட்டடி தறுவட்டம் கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்.0072(559), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0),11/2C(0.24.5), 17/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு புஞ்சை நிலம் செல்லமுத்து மகன் செல்வராஜ்பாண்டி என்ற பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. மேற்படி நிலங்களுக்கு நான்கு மால் விபரம்.

இயக்குநர

பல எண்: 10/3 - நான்குமால் விபரம்:-

வடக்கு	:	4/7 - புஷ்பம்மாள் புஞ்சை நிலம்
தெற்கு	:	10/4 - செல்வராற்பாண்டி பஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு பறம்போக்கு ஹை (ப) வண்ப்பாகை
மேற்கு	:	10/2 - பல்பம்மாள் பன்தை நிலம்
பல எண்:10/	6 - 15	

பல எண்: 10/6 - நான்குமால் விபரம்:-

வடக்கு	:	10/7 - செல்வராற்பாண்டி புன்னசு நிலம்
தெற்கு		11/1 - வண்டிப்பாகை
கிழக்கு	:	10/8- அரசு புறும்போக்கு ஹை (ம) வண்டிப்பாகை
மேற்கு		10/5 - ரஞ்சிதம்மாள் பஞ்சை நிலம்

புல் எண்: 10/7 - நான்குமால் விபரம்:-

வடக்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு		10/6 - செல்வராஜ்பாண்டி புன்சை நிலம்
கிழக்கு		10/8- அரசு பறப்போக்கு வை (ப) வண்ப்பாகை
மேற்கு		10/4 - செல்வராஜ்பாண்டி புன்சை நிலம்

புல எண்:10/4 - நான்குமால் விபரம்:-

வடக்கு	:	10/3 – செல்வராஜ்பாண்டி பன்சை நிலம்
தெற்கு	:	10/5 - ரஞ்சிதம்மாள் பஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு பாம்போக்கு ஹை (ம) வண்வப்பாகை
மேற்கு		10/2 - LIDRI HILDINGT LUST STATE TONIO

வடக்கு	:	10/11 - காசி வகை பன்சை நிலம்
தெற்கு	:	11/2ஏ - செல்வராற்பாண்டி புன்னசு நிலம்
கிழக்கு	83	11/2ஜி - செல்வராஜ்பாண்டி பஞ்சை நிலம்
மேற்கு	:	10/8- அரசு புறும்போக்கு ஹை (பு) வண்டிப் பதை
புல எண்:11/	2町 -	நான்குமால் விபரம்:-

வடக்கு		10/12 - மகேஷ்வரி பஞ்சை நிலம்
தெற்கு	:	11/2பி - முனியராற் புஞ்சை நிலம்
கிழக்கு	:	11/2F - செல்வார்ற்பாண்டி புன்னசு நிலம்
மேற்கு	:	11/1 - வண்டிப்பாகை

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புல எண்:11/2C - நான்குமால் விபரம்:-

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வடக்கு	1:10	11/2B - முனியராஜ் புஞ்சை நிலம்
தெற்கு	1	14/2 - கிருஷ்ணசாயி புஞ்சை நிலம்
கிழக்கு	:	11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்

புல எண்:11/2D - நான்குமால் விபரம்:-

வடக்கு	1:	11/2B - முனியராஜ் புஞ்சை நிலம்
தெற்கு	:	14/2 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு		11/2C - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2E - நான்குமால் விபரம்ட

வடக்கு		11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	14/2 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	11/2J1 - கிருஷ்ணசாயி புஞ்சை நிலம்
மேற்கு	:	11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2**F - நாள்குமால் விபரம்:-**

வடக்கு	:	11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	11/2I - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்

புல எண்:11/2G - நான்குமால் விபரம்:-

வடக்கு	:	10/12- மகேஷ்வரி புஞ்சை நிலம்
தெற்கு	1983	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	11/2H - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	1:	11/2A - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2H - நான்குமால் விபரம்:-

வ∟க்கு	:	11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/2I - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்

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புல எண்:11/2I - நான்குமால் விபரம்:-

வடக்கு	:	11/2H - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/2J1 - கிருஷ்ணசாமி பஞ்சை நிலம்
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு	:	11/2F - செல்லராஜ்பாண்டி பஞ்சை நிலம்

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புல எண்:11/2J2B - நான்குமால் விபரம்:-

வடக்கு	:	11/2ஐ – செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு		15/2ஏ - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு		11/2E - செல்வராஜ்பாண்டி பஞ்சை நிலம்

புல எண்:15/2B1 - நான்குமால் விபரம்:-

வடக்கு	:	11/2J2 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	15/2B2 - ராஜேந்திரன் பஞ்சை நிலம்
கிழக்கு	:	27/1 - ஒடை
மேற்கு	:	15/2A – கிருஷ்ணசாமி பஞ்சை நிலம்

4.பாதை வசதி;~

மேறப்டி உரிமம் கோரியுள்ள புலங்களுக்கு செல்ல அணுகு பாதை வசதி உள்ளது.

5.பரிந்துரை:

எனவே மனுதாரர் சமர்பித்துள்ள ஆவணங்களின்படியும், சம்பந்தப்பட்ட கிராம நிர்வாக அலுவலர், வருவாய் ஆய்வாளர், குறுவட்ட நில அளவர் மற்றும் விருதுநகர் மண்டல துணை பரிந்துரையின்பேரிலும், புலத்தணிக்கையின் வட்டாட்சியரின் அடிப்படையிலும், கதவு எண்:4/117, மேலத்தெரு, காடனேரி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் சேர்ந்த திரு.மாரிமுத்து <u>த/பெ.சுந்</u>தரம் என்பவர் பட்டா எண:1067-ல் បល எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0),11/21(0.46.25) மற்றும் uilm எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு நிலத்தில் 10 வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க பரிந்துரை செய்கிறேன்,

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இணைப்பு:

1. படிவம் VI

2_ வட்டரட்சியர் புலத்தணிக்கை குறிப்பு

்3: `புலங்களின் நான்குமால் விவரம்

4. மன்னார்கோட்டை மற்றும் வலையபட்டி கிராம நிர்வாக அலுவலர்கள் அறிக்கை

5. வச்சக்காரப்பட்டி குறுவட்ட வருவாய் ஆய்வாளர் அறிக்கை

6. விருதுநகர் மண்டல் துணை வட்டாட்சியர் அறிக்கை

7. "அ" பதிவேட்டின் நகல்

8. புலப்பட நகல்

9. கிராம வரைபடம்

10. கூட்டு வரைபடம்

11. "அ1" விளம்பர நோட்டிஸ்

12. கனிமவரி பாக்கி அபிடவட்

13. கணினி 10-1

வருவாய் வட்டாட்சியர், விருதுநகர்.

PJ 16/11/20

S. Lonfieszy

பலத்தணிக்கை குறிப்பு

தணிக்கை செய்த அலுவலா்

தணிக்கை செய்த இடம்

்திருமதி.வ.முத்துலட்சுமி.பி.ஏ., வட்டாட்சியா, விருதுநக

: கோட்டையூர் கிராமம்

புல எண்கள்

Conconcern contract

கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0),11/2C(0.24.5),11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0)

自動改良机

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- Hatty that LAARIN'

தணிக்கை செய்த நாள் 🛛 :

விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எணக்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25)மற்றும் பட்டா எண்.1608-ல் பல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் **5.21.5 ஹொக்டேர் பரப்பு நிலத்தில்** கதவு எண்:4/117, மேலத்தெரு, காடனோி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் சேர்ந்த திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் 10 வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க கோரிய மனு தொடர்பாக புலத்தணிக்கை செய்து அறிக்கை சமர்பிக்கும் பொருட்டு, பிரஸ்தாப நிலத்தை இன்று () சம்பந்தப்பட்ட கிராம நிர்வாக அலுவலர், வருவாய் ஆய்வாளர், குறுவட்ட நில அளவர் மற்றும் விருதுநகர் மண்டல துணை வட்டாட்சியர் ஆகியோருடன் புலத்தணித்கை செய்யப்பட்டது.

விருதுநகர் வட்டம், வச்சக்காரப்பட்டி குறுவட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0),11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் புல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு புஞ்சை நிலம் செல்லமுத்து முகன் செல்வராஜ்பாண்டி என்ற பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. மேற்படி நிலங்களுக்கு நான்கு மால் விபரம்.

S. Lonfille às

பல் எண்:10/3 - நான்குமால் விபரம்:-

வடக்கு	122	4/7 - புஷ்பம்மாள் புஞ்சை நிலம்
தெற்கு	1:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஹைட(ம) வண்டிப்பாகை
மேற்கு		10/2 - புஷ்பம்மாள் புஞ்சை நிலம்

வடக்கு : 10/7 - செல்வராஜ்பாண்டி புஞ்சை நிலம் தெற்கு : 11/1 - வண்டிப்பாதை கிழக்கு : 10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை மேற்கு : 10/5 - ரஞ்சிதம்மாள் புஞ்சை நிலம்

புல எண்:10/7 - நான்குமால் விபரம்:-

வடக்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	10/6 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஒடை(ம) வண்டிப்பாதை
மேற்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:10/4 - நான்குமால் விபரம்:-

வடக்கு		10/3 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	10/5 - ரஞ்சிதம்மாள் புஞ்சை நிலம்
கிழக்கு		10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/2 - புஷ்பம்மாள் புஞ்சை நிலம்

புல எண்:10/12 - நான்குமால் விபரம்:-

வடக்கு	:	10/11 - காசி வகை புஞ்சை நிலம்
தெற்கு		11/2ஏ - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	11/2ஜி - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு		10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை

புல எண்:11/2ஏ - நான்குமால் விபரம்:-

வடக்கு	:	10/12 - மகேஷ்வரி புஞ்சை நிலம்
தெற்கு	:	11/2பி - முனியராஜ் புஞ்சை நிலம்
கிழக்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/1 - வண்டிப்பாதை

புல எண்:11/2C - நான்குமால் விபரம்-

வடக்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்
தெற்கு	:	14/2 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்

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புல எண்:11/2D - நான்குமால் விபரம்:-

வடக்கு		11/2B - முனியராஜ் புஞ்சை நிலம்
தெற்கு	200	14/2 - கிருஷ்ணசாமி பஞ்சை நிலம்
கிழக்கு		11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2C - செல்வராஜ்பாண்டி புஞ்சை நிலம்

பல எண்:11/2E - நான்குமால் விபரம்:-

வடக்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு		14/2 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	11/2J1 - கிருஷ்ணசாமி புஞ்சை நிலம்
மேற்கு	1	11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2F - நான்குமால் விபரம்:-

வடக்கு		11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/2E - செல்வராஜ்பாண்டி பஞ்சை நிலம்
கிழக்கு	:	11/2I - செல்வராஜ்பாண்டி பஞ்சை நிலம்
மேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்

புல எண்:11/2G - நான்குமால் விபரம்:-

வடக்கு		10/12- மகேஷ்வரி புஞ்சை நிலம்	
தெற்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்	-
கிழக்கு		11/2H - செல்வராற்பாண்டி புன்னச நிலம்	
மேற்கு		11/2A - செல்வராஜ்பாண்டி புன்னச நிலம்	

புல எண்:11/2H - நான்குமால் விபரம்:-

வடக்கு	:	11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு		11/2I - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு	Q.	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2I - நான்குமால் விபரம்:-

வடக்கு	:	11/2H - செல்வராஜ்பாண்டி பன்சை நிலம்
தெற்கு	÷.	11/2J1 - கிருஷ்ணசாமி பஞ்சை நிலம்
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு	:	11/2F - செல்வராஜ்பாண்டி பன்சை நிலம்

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பல் எண்:11/2J2B - நான்குமால் வியரம்:-

வடக்கு	:	11/2ஐ - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	15/2ஏ - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு		11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்: 15/2B1 - நான்குமால் விபரம்:-

வடக்கு	:	11/2J2 - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
தெற்கு	:	15/2B2 - ராஜேந்திரன் புஞ்சை நிலம்	
கிழக்கு	:	27/1 - ஓடை	
பேற்கு	:	15/2A – கிருஷ்ணசாமி புஞ்சை நிலம்	

மேற்படி புல எண்ணை புல தணிக்கை செய்யும் போது 300 மீட்டர் சுற்றளவில் குடியிருப்பு பகுதிகள் ஏதும் இல்லை. 50 மீட்டர் சுற்றளவில் சாலைகள், ரயில் இருப்பு பாதைகள், பராதானச்சின்னங்கள், மின் கம்பிகள், நீர் நிலை ஆதாரங்கள் மற்றும் வேறு நிரந்தர் அமைப்புகள் ஏதும் இல்லை. மேற்படி உரிமம் கோரியுள்ள புல எண்.11/2н-ன் வடகிழக்கு மூலையில் பங்காளிகளுக்கு பாத்தியப்பட்ட பேச்சியம்மன் கோவில் உள்ளது. உரிமம் கோரியுள்ள புல எண்கள்: 10/3, 10/4, 10/6, 10/7 ஆகிய புல எண்களுக்கு கிறக்கில் புல எண்:10/8-ல் ஒடை மற்றும் வண்டிப்பாதை செல்கிறது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/620/2014 நாள்:24.09.2014-ன் படி, 11/2A(0.27.0) ஏர்ஸ், புல எண் 11/2C(0.24.5)ஏர்ஸ், புல எண் 11/2D(0.24.5)ஏர்ஸ், புல எண் 11/2E(0.52.0)ஏர்ஸ், புல எண் 11/2F(0.23.0), பல எண் 11/2G(0.62.25)ஏர்ஸ், பல எண் 11/2I(0.46.25) ஏர்ஸ் பரப்பு நிலங்களுக்கு திருநெல்வேலி மாவட்டம், கடையநல்லூர், மாவடி கால், கதவு எண்:8/17 என்ற முகவரியைச் சேர்ந்த திரு.லட்சுமணன் மகன் முனியசாமி என்பவருக்கு 25.09.2014 முதல் 24.09.2019 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/522/2004 நாள்:06.01.2005-ன் படி, பல எண் 10/3(0.22.5)ஏர்ஸ், பல எண்:10/4(0.35.5) ஏர்ஸ் புல எண் 10/6(0.09.5)ஏர்ஸ், பல எண் 10/7(0.30.0)ஏர்ஸ் பரப்பு நிலங்களுக்கு திரு.கூழ்வாழவந்தான் என்பவருக்கு 06.01.2005 முதல் 05.01.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/360/2005 நாள்:28.07.2005-ன் படி புல எண்:11/2J2, 15/2B1 மனுதாரர் திரு.தன்னாசிமுத்து என்பவருக்கு 28.07.2005 முதல் 27.07.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. மேற்படி குவாரி உரிமம் பெற்ற பல எண்களில் சுமார் 30 அடி பள்ளம் உள்ளது. மேலும், மனுதாரா் திரு.மாரிமுத்து த/பெ.சுந்நதரம் என்பவர் குவாரி உரிமம் பெற பட்டாதாரர் திரு.செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரிடமிருந்து நோட்டரி பப்ளிக் முன்னிலையில் 12 வருடங்களுக்கு ஒப்பந்த உறுதி மொழி பத்திரம் பெற்றுள்ளார். மேற்படி ஒப்பந்த உறுதி மொழி பத்திர

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எண்:BC371870 மற்றும் BC371871, நாள்:05.11.2020 பேற்படி குவாரிAt உரிமம் கோரியுள்ள புல எண்களுக்கு அனுகு பாதை வசதி உள்ளது. மேற்பட வர் எண்டிதரட்டையூர் பஞ்சாயத்து மற்றும் விருதுநகர் ஊராட்சி எல்கைக்கு உட்பட்டது. ஏ1 நோட்டேல் விள்ளுக்கு செய்யப்பட்டதில் பொது மக்களிடமிருந்து ஆட்சேபணை ஏதும் வர்ப்பெறவில்லை.

எனவே மனுதாரர் சமர்பித்துள்ள ஆவணங்களின்படியும், சம்பந்தப்பட்ட கிராம நிர்வாக அலுவலர், வருவாய் ஆய்வாளர், குறுவட்ட நில அளவர் மற்றும் <u>விருதுந</u>கர் மண்டல துணை வட்டாட்சியரின் பரிந்துரையின்பேரிலும், புலத்தணிக்கையின் அடிப்படையிலும், கதவு எண்:4/117, மேலத்தெரு, காடனேரி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் சேர்ந்த திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் _ பட்டா எண:1067-ல் பல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2G(0.62.25),11/2H(0.45.0), 11/2I(0.46.25)மற்றும் பட்டா எண்.1608-ல் பல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு நிலத்தில் 10 வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க பரிந்துரை செய்கிறேன்.

> வருவாய் வட்டாட்சியர் விருதுநகர்.

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பணிந்தனுப்பப்படுகிறது:-

விருதுநகர் மண்டல துணை வட்டாட்சியர் அறிக்கை:--

விர<u>ுக</u>ுநகர் மாவட்டம் ம<u>ற்று</u>ம் வட்டம், கோட்டையூர் SINA எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல 4(0.35.5). பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் புல எண்கள்:11/2A(0.27.0),11/2C(0.24.5),11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் பல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டோ் பரப்பு நிலத்தில் 10 வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க கோரி, கதவு எண்:4/117, காடனேரி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் மேலத்தெரு, சேர்ந்த திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் மனுச்செய்துள்ளது தொடர்பாக புலத்தணிக்கை செய்து எனது அறிக்கை கீழ்க்கண்டவாறு பணிந்து சமர்பிக்கிறேன்.

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விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண்:1067-ல் புல எண் 10/3(0.22.5)ஏர்ஸ், புல எண் 10/6(0.09.5)ஏர்ஸ், புல எண் 10/7(0.30.0)ஏர்ஸ் பரப்பு நிலங்கள் செல்லமுத்து செல்வராஜ் மகன் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. பட்டா எண். 1573-ல் புல எண்:10/4(0.35.5) ஏர்ஸ் பரப்ப நிலங்கள் செல்லமு<u>க்</u>து செல்வராஜ் மகன் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது, பட்டா எண்.1629-ல் புல எண்:10/12(0.58.0) ஏர்ஸ் பரப்பு நிலங்கள் செல்லமுத்து செல்வராஜ் மகன் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. ULLE எண்:1493-ல் எண்:11/2A(0.27.0) பல ஏர்ஸ், பல **लक्कां** 11/2C(0.24.5)ஏர்ஸ், பல எண் 11/2D(0.24.5)ஏர்ஸ், பல எண் 11/2E(0.52.0)ஏர்ஸ், பல எண் 11/2F(0.23.0), பல எண் 11/2G(0.62.25)ஏர்ஸ், பல எண் 11/2H(0.52.5)ஏர்ஸ், பல எண் 11/2I(0.46.25) ஏர்ஸ் பரப்பு நிலங்கள் செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. பட்டா எண்.1608-ல் புல எணா்:11/2J2B(0.24.5)ஏா்ஸ், 15/2B1(0.37.0)ஏா்ஸ் பரப்பு நிலங்கள் செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. மேற்கண்ட புல எண்களுக்கு நான்குமால் விரும் கீழ்க்கண்டவாறு.

புல எண்:10/3 - நான்குமால் விபரம்:-

வடக்கு	:	4/7 - புஷ்பம்மாள் புஞ்சை நிலம்
தெற்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஹட(ம) வண்டிப்பாகை
மேற்கு		10/2 - பல்பம்மாள் பஞ்சை நிலம்

வடக்கு		10/7 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/1 - வண்டிப்பாதை
கிழக்கு		10/8- அசசு புறம்போக்கு கடை(ம) வண்டிப்பாகை
மேற்கு	1	10/5 - ரஞ்சிதம்மாள் பஞ்சை நிலம்

புல எண்:10/7 - நான்குமால் விபரம்:-

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வடக்கு	1000	10/4 - செலவராஜபாண்டி புருமைச நமைய
கொர்கு	:	10/6 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிமக்கு		10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம

புல எண்:10/4 - நான்குமால் விபரம்:-

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	1.	10/2 – செல்வாரற்பாண்டி புஞ்சை நிலம்
வடக்கு	18.6	10/3 - ald total in 2 th and the flows
தெற்கு	1	10/5 - ரஞ்சதேமமாள புஞ்சை நடை
கிழக்கு	;	10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/2 - புஷ்பம்மாள் புஞ்சை நிலம

புல எண்:10/12 - நான்குமால் விபரம்:-

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ை க்கு	1:	10/11 - காசி வகை புஞ்சை நிலம
Qamia	5.0	11/2எ - செல்வராஜ்பாண்டி புஞ்சை நிலம
- Ologing		11/2னி - செல்வார்ஜ்பாண்டி புஞ்சை நிலம்
கழக்கு	<u>N</u>	10/2 காச பலம்போக்கு வை (ம) வண்டிப்பாதை
மேற்கு		10/8- Miler rillingen eile Bench and 1

புல எண்:11/2ஏ - நான்குமால் விபரம்:-

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வடக்கு	;	10/12 - பகேஷவாட்புஞ்சை நல்ய
கெற்கு	:	11/2பி - முனியராஜ் புஞ்சை நிலம
கிழக்கு		11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம
மேற்கு	:	11/1 - வண்டிப்பாதை

புல எண்:11/2C - நான்குமால் விபரம்:-

வடக்கு	:	11/2B - மனியராஜ் புஞ்சை நிலம்
தெற்கு		14/2 - கிருஷ்ணசாமி புருசை நிலம
கிழக்கு		11/2D - செல்வராஜபாண்டி புருசை நலய
மேற்கு	:	11/2B - முனியராஜ் புஞன்ச் நிலய

புல எண்:11/2D - நான்குமால் விபரம்:-

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வடக்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்
கெற்கு	:	14/2 - கிருஷ்ணசாயி புஞ்சை நிலய
கிழக்கு	1	11/2E - செல்வராஜ்பாண்டி புஞ்சை நலய
மேற்கு	:	11/2C - செல்வராஜ்பாண்டி புஞசை நலம

5. prices

இயக்குநா அலுலலைக புல எண்:11/2E - நான்குமால் விபரம்:-கிறதுநகர் பாவட்டம் 11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலப் வடக்கு : 2022 14/2 - கிருஷ்ணசாமி புஞ்சை நிலம் தெற்கு 4 11/2J1 - கிருஷ்ணசாமி புஞ்சை நிலம் கிழக்கு 1 விருதாதா Willia & Unillian 11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம் மேற்கு :

புல எண்:11/2F - நான்குமால் விபரம்:-

வடக்கு	:	11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு		11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	11/2I - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்

புல எண்:11/2G - நான்குமால் விபரம்:-

வடக்கு	1	10/12-	மகேஷ்வரி புஞ்சை நிலம்	
தெற்கு		11/2F	- செல்வராஜ்பாண்டி புஞ்சை நிலம்	
கிழக்கு	4	11/2H	- செல்வராஜ்பாண்டி புஞ்சை நிலம்	
மேற்கு	1	11/2A	- செல்வராஜ்பாண்டி புஞ்சை நிலம்	

புல எண்:11/2H - நான்குமால் விபரம்:-

வடக்கு	191	11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	11/2I - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு		28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2I - நான்குமால் விபரம்:-

	வடக்கு	30	11/2日 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
. [தெற்கு	1.	11/2J1 - கிருஷ்ணசாமி புஞ்சை நிலம்
T	கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
	மேற்கு	:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2J2B - நான்குமால் விபரம்:--

வடக்கு		11/2ஐ - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு		15/2ஏ - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு	1	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்

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புல எண்:15/2B1 - நான்குமால் விபரம்:-

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வடக்கு	:	11/2J2 - செல்வராஜ்பாண்டி புஞ்சை நலய
தெற்கு	6	.15/2B2 - ராஜேந்திரன் புஞ்சை நல்க
கிழக்கு		27/1 - ஓனட
மேற்கு		15/2A – கிருஷண்சாயா புருலாச நாண

மேற்படி புல எண்ணை புல தணிக்கை செய்யும் போது 300 மீட்டர் சுற்றளவில் குடியிருப்பு பகுதிகள் ஏதும் இல்லை. 50 மீட்டர் சுற்றளவில் சாலைகள், ரயில் இருப்பு பாதைகள், புராதானச்சின்னங்கள், மின் கம்பிகள், நீர் நிலை ஆதாரங்கள் மற்றும் வேறு நிரந்தர அமைப்புகள் ஏதும் இல்லை. மேற்படி உரிமம் கோரியுள்ள புல எண்.11/2H-ன் வடகிழக்கு மூலையில் பங்காளிகளுக்கு பாத்தியப்பட்ட பேச்சியம்மன் கோவில் உள்ளது. உரிமம் கோரியுள்ள புல எண்கள்: 10/3, 10/4, 10/6, 10/7 ஆகிய புல எண்களுக்கு கிழக்கில் புல எண்:10/8-ல் ஒடை மற்றும் வண்டிப்பாதை செல்கிறது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் 11/2A(0.27.0) நாள்:24.09.2014-ன் 11/2C(0.24.5)ஏர்ஸ், புல எண் 11/2D(0.24.5)ஏர்ஸ், புல எண் 11/2E(0.52.0)ஏர்ஸ், புல எண் LIG. ந.க.கேவி1/620/2014 11/2F(0.23.0), புல எண் 11/2G(0.62.25)ஏர்ஸ், புல எண் 11/2I(0.46.25) ஏர்ஸ் பரப்பு நிலங்களுக்கு திருநெல்வேலி மாவட்டம், கடையநல்லூர், மாவடி கால், கதவு எண்:8/17 என்ற முகவரியைச் சேர்ந்த திரு.லட்சுமணன் மகன் முனியசாமி என்பவருக்கு 25.09.2014 முதல் 24.09.2019 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/522/2004 நாள்:06.01.2005-ன் படி, புல எண் 10/3(0.22.5)ஏர்ஸ், புல எண்:10/4(0.35.5) ஏர்ஸ் புல எண் 10/6(0.09.5)ஏர்ஸ், புல எண் 10/7(0.30.0)ஏர்ஸ் பரப்பு நிலங்களுக்கு திரு.கூழ்வாழவந்தான் என்பவருக்கு 06.01.2005 முதல் 05.01.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் மனுதாரர் புல நாள்:28.07.2005-ன் LILO குவாரி உரிமம் திரு.தன்னாசிமுத்து என்பவருக்கு 28.07.2005 முதல் 27.07.2010 வரை வழங்கப்பட்டுள்ளது. மேற்படி குவாரி உரிமம் பெற்ற புல எண்களில் சுமார் 30 அடி பள்ளம் உள்ளது. மேலும், மனுதாரா் திரு.மாரிமுத்து த/பெ.சுந்நதரம் என்பவா் குவாரி உரிமம் பெற பட்டாதாரா் திரு.செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரிடமிருந்து நோட்டரி பப்ளிக் முன்னிலையில் 12 வருடங்களுக்கு ஒப்பந்த உறுதி மொழி பத்திரம் பெற்றுள்ளார். ஒப்பந்த உறுதி மொழி பத்திர எண்:BC371870 மற்றும் BC371871, நாள்:05.11.2020 மேற்படி ்குவாரி உரிமம் கோரியுள்ள புல எண்களுக்கு அனுகு பாதை வசதி உள்ளது. மேற்படி புல எண் கோட்டையூர் பஞ்சாயத்து மற்றும் விருதுநகர் ஊராட்சி எல்கைக்கு உட்பட்டது. ஏ1 நோட்டிஸ் விளம்பரம் செய்யப்பட்டதில் பொது மக்களிடமிருநது ஆட்சேபணை ஏதும் வரப்பெறவில்லை. மேற்படி மனுதாரா் திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவருக்கு குவாரி உரிமம் வழங்க பரிந்துரை செய்கிறேன் என்பதை பணிவுடன் தெரிவித்துக்கொள்கிறேன்.

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பணிந்தனுப்பப்படுகிறது:-

விருதுநகர் வட்டம் வச்சக்காரப்பட்டி குறுவட்டம் கோட்டையூர் கிராம நிர்வாக அலுவலர் அறிக்கை:-

இயக்குநர் ஆலுலுலை க நகுநகர் மாவட்டு

MAY 2022

விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல-எண்:10/4(0.35.5), பட்டா எண்.1629-ல் பல எண்:10/12(0.58.0), பட்டா எண்:1493-ல் பல எண்கள்:11/2A(0.27.0),11/2C(0.24.5),11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எண்.1608-ல் பல எண்கள்:11/2J2B(0.24.5), 15/2B1(0.37.0) மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு நிலத்தில் 10 வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க கோரி, கதவு எண்:4/117, மேலத்தெரு, காடனேரி கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் சேர்ந்த திரு.மாரிமுத்து த/பெ.சுந்தரம் என்பவர் மனுச்செய்துள்ளது தொடர்பாக புலத்தணிக்கை செய்து எனது அறிக்கை கீழ்க்கண்டவாறு பணிந்து சமாபிக்கிறேன்.

விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா எண்:1067-ல் புல எண் 10/3(0.22.5)ஏர்ஸ், புல எண் 10/6(0.09.5)ஏர்ஸ், புல எண் 10/7(0.30.0)ஏர்ஸ் பரப்பு நிலங்கள் செல்லமுத்து மகன் செல்வராற் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. பட்டா எண். 1573-ல் புல எண்:10/4(0.35.5) ஏர்ஸ் பரப்பு நிலங்கள் செல்லமுத்து மகள் செல்வராஜ் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. பட்டா எண். 1629-ல் பல எண்:10/12(0.58.0) ஏர்ஸ் பரப்பு நிலங்கள் செல்லமுத்து மகன் செல்வராஜ் என்பவர<u>க</u>ு பாண்டி பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. பட்டா எண்:1493-ல் புல eremi:11/2A(0.27.0) ஏர்ஸ், นุญ எண் 11/2C(0.24.5)ஏர்ஸ், பல எண் 11/2D(0.24.5)ஏர்ஸ், பல எண் 11/2E(0.52.0)ஏர்ஸ், பல எண் 11/2F(0.23.0), புல எண் 11/2G(0.62.25)ஏர்ஸ், புல எண் 11/2H(0.525)ஏர்ஸ், புல எண் 11/2I(0.46.25) ஏர்ஸ் பரப்பு நிலங்கள் செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. பட்டா எண்.1608-ல் புல எண்:11/2J2B(0.24.5)ஏர்ஸ், 15/2B1(0.37.0)ஏர்ஸ் ஆக மொத்தம் 5.21.5 ஹெக்டேர் பரப்பு நிலங்கள் செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரது பெயரில் கிராம கணக்கில் தாக்கலாகியுள்ளது. மேற்கண்ட புல எண்களுக்கு நான்குமால் விபரம் கீழ்க்கண்டவாறு.

பல எண்:10/3 - நான்குமால் விபரம்:-

வடக்கு		4/7 - புஷ்பம்மாள் புஞ்சை நிலம்
தெற்கு	3.5	10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு		10/8- அரசு புறம்போக்கு ஒடை(ம) வண்டிப்பாதை
மேற்கு	:	10/2 - புஷ்பம்மாள் பஞ்சை நிலம்
பல என் 10/	6 - IE	ကြော်(குமால்) வியாம்:-

புல எண்: 10/6 - நான்குமால் விபரம்:-

வடக்கு	100	10/7 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு		11/1 - வண்டிப்பாதை
கிழக்கு		10/8- அரசு புறம்போக்கு ஒடை(ம) வண்டிப்பாகை
மேற்கு	:	10/5 - ரஞ்சிதம்மாள் புஞ்சை நிலம்

S. Lonfr Gige

் புல எண்:10/7 - நான்குமால் விபரம்:-

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வடக்கு		10/4 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	1	10/6 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு	:	10/4 – செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:10/4 – நான்குமால் விபரம்:-

வடக்கு	:	10/3 - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	10/5 - ரஞ்சிதம்மாள் புஞ்சை நிலம்
கிழக்கு	:	10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை
மேற்கு		10/2 - புஷ்பம்மாள் புஞ்சை நிலம்

புல எண்:10/12 - நான்குமால் விபரம்:-

வடக்கு	1	10/11 - காசி வகை புஞ்சை நிலம்
தெற்கு	1.	11/2ஏ - செல்வராஜ்பாண்டி புஞ்சை நிலம்
கிழக்கு	108	11/2ஜி – செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு		10/8- அரசு புறம்போக்கு ஓடை(ம) வண்டிப்பாதை

புல எண்:11/2ஏ - நான்குமால் விபரம்:-

வடக்கு	1	10/12 - மகேஷ்வரி புஞ்சை நிலம்
தெற்கு	1	11/2பி - முனியராஜ் புஞ்சை நிலம்
கிழக்கு		11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/1 - வண்டிப்பாதை

புல எண்:11/2C - நான்குமால் விபரம்:-

வடக்கு		11/2B - முனியராஜ் புஞ்சை நிலம்
தெற்கு		14/2 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு		11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்

புல எண்:11/2D - நான்குமால் விபரம்:-

வடக்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்
தெற்கு	:	14/2 - கிருஷ்ணசாமி புஞ்சை நிலம்
கிழக்கு	:	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்
மேற்கு		11/2C - செல்வராஜ்பாண்டி புஞ்சை நிலம்

S. Lonfitting

இயக்குநர் அலுலு பூல எண்:11/2ஐ - நான்குமால் விபரம்:-பிரைகள் மான 11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம் வடக்கு 2 7 MAY 2022 : 14/2 - கிருஷ்ணசாமி புஞ்சை நிலம் தெற்கு : கிழக்கு றியியல் & சுரங்கள் வருதுநகர் 11/2J1 - கிருஷ்ணசாமி புஞ்சை நிலம் : மேற்கு : 11/2D - செல்வராஜ்பாண்டி புஞ்சை நிலம்

புல எண்:11/2F - நான்குமால் விபரம்:-

வடக்கு		11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
தெற்கு	1	11/2E - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
கிழக்கு	:	11/2I - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
பேற்கு	:	11/2B - முனியராஜ் புஞ்சை நிலம்	

புல எண்:11/2G - நான்குமால் விபரம்:-

வடக்கு	:	10/12- மகேஷ்வரி புஞ்சை நிலம்
தெற்கு		11/2F - செல்வராஜ்பாண்டி பன்சை நிலம்
கிழக்கு	:	11/2H - செல்வராற்பாண்டி பஞ்சை நிலம்
மேற்கு	:	11/2A - செல்வராற்பாண்டி பஞ்சை நிலம்

புல எண்:11/2H - நான்குமால் விபரம்:-

4	11/2G - செல்வராஜ்பாண்டி பன்சை நிலம்	
:	11/2I - செல்வராஜ்பாண்டி பஞ்சை நிலம்	
:	28/12 - பெருமாள் பஞ்சை நிலம்	
:	11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்	
	:	 : 11/2G - செல்வராஜ்பாண்டி புஞ்சை நிலம் : 11/2I - செல்வராஜ்பாண்டி புஞ்சை நிலம் : 28/12 - பெருமாள் புஞ்சை நிலம் : 11/2F - செல்வராஜ்பாண்டி புஞ்சை நிலம்

பூல எண்:11/2I - நான்குமால் விபரம்:-

வடக்கு	:	11/2H - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு		11/2J1 - கிருஷ்ணசாமி பஞ்சை நிலம்
கிழக்கு	2	28/12 - பெருமாள் புஞ்சை நிலம்
மேற்கு	:	11/2F - செல்வராஜ்பாண்டி பன்சை நிலம்

பல எண்:11/2J2B - நான்குமால் விபரம்:-

வடக்கு		11/2ஐ - செல்வராஜ்பாண்டி புஞ்சை நிலம்
தெற்கு	:	15/2ஏ - கிருஷ்ணசாமி பஞ்சை நிலம்
கிழக்கு	30	28/12 - பெருமாள் பஞ்சை நிலம்
மேற்கு	1	11/2E - செல்வராற்பாண்டி பஞ்சை நிலம்

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புல எண்:15/	2 B 1	- நான்குமால் விபரம்:-
வடக்கு	:	
தெற்கு		15/2B2 - 110 Conce 2000
கிழக்கு		27-1 200
மேற்கு	:	15/2A - 2022 ADIA

மேற்படி புல எண்ணை புல தணிக்கை செய்யும் போது 300 மீட்டர் சுற்றளவில் குடியிருப்பு பகுதிகள் ஏதும் இல்லை. 50 மீட்டர் சுற்றளவில் சாலைகள், ரயில் இருப்பு பாதைகள், புராதானச்சின்னங்கள், மின் கம்பிகள், நீர் நிலை ஆதாரங்கள் மற்றும் வேறு நிரந்தர அமைப்புகள் ஏதும் இல்லை. மேற்படி உரிமம் கோரியுள்ள புல எண்.11/2பு-ன் வடகிழக்கு மூலையில் பங்காளிகளுக்கு பாத்தியப்பட்ட பேச்சியம்மன் கோவில் உள்ளது. உரிமம் கோரியுள்ள புல எண்கள்: 10/3, 10/4, 10/6, 10/7 ஆகிய புல எண்களுக்கு கிழக்கில் புல எண்:10/8-ல் ஒடை மற்றும் வண்டிப்பாதை செல்கிறது. விருதுநகா் மாவட்ட ஆட்சியா் அவா்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/620/2014 நாள்:24.09.2014-ன் LIQ, 11/2A(0.27.0)ஏர்ஸ், பல எண் 11/2C(0.24.5)ஏர்ஸ், புல எண் 11/2D(0.24.5)ஏர்ஸ், புல எண் 11/2E(0.52.0)ஏர்ஸ், புல எண் 11/2F(0.23.0), புல எண் 11/2G(0.62.25)ஏர்ஸ், புல எண் 11/2I(0.46.25) ஏர்ஸ் பரப்பு நிலங்களுக்கு திருநெல்வேலி மாவட்டம், கடையநல்லூர், மாவடி கால், கதவு எண்:8/17 என்ற முகவரியைச் சேர்ந்த திரு.லட்சுமணன் மகன் முனியசாமி என்பவருக்கு 25.09.2014 முதல் 24.09.2019 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/522/2004 நாள்:06.01.2005-ன் படி, பல எண் 10/3(0.22.5)ஏர்ஸ், புல எண்:10/4(0.35.5) ஏர்ஸ் புல எண் 10/6(0.09.5)ஏர்ஸ், புல எண் 10/7(0.30.0)ஏர்ஸ் பரப்பு நிலங்களுக்கு திரு.கூழ்வாழவந்தான் என்பவருக்கு 06.01.2005 முதல் 05.01.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. விருதுநகர் மாவட்ட ஆட்சியர் அவர்களின் செயல்முறை ஆணைகள் ந.க.கேவி1/360/2005 நாள்:28.07.2005-ன் Цlø புல **எண்:11**/2J2, 15/2B1 மனுதாரர் திரு.தன்னாசிமுத்து என்பவருக்கு 28.07.2005 முதல் 27.07.2010 வரை குவாரி உரிமம் வழங்கப்பட்டுள்ளது. மேற்படி குவாரி உரிமம் பெற்ற புல எண்களில் சுமார் 30 அடி பள்ளம் உள்ளது. மேலும், மனுதாரர் திரு.மாரிமுத்து து⁄பெ.சுந்நதரம் என்பவர் குவாரி உரிமம் பெற பட்டாதாரர் திரு.செல்லமுத்து மகன் செல்வராஜ் பாண்டி என்பவரிடமிருந்து நோட்டரி பப்ளிக் முன்னிலையில் ஒப்பந்த உறுதி மொழி பெற்றுள்ளார். மேற்படி குவாரி உரிமம் கோரியுள்ள புல எண்களுக்கு அனுகு பாதை வசதி உள்ளது. மேற்படி புல எண் கோட்டையூர் பஞ்சாயத்து மற்றும் விருதுநகர் ஊராட்சி எல்கைக்கு உட்பட்டது. ஏ1 நோட்டிஸ் விளம்பரம் செய்யப்பட்டதில் பொது மக்களிடமிருநது ஆட்சேபணை ஏதும் வரப்பெறவில்லை.

1110 UII 20 20 கோடடையுள் விருதுரகள் வட்

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ର୍ଯାର୍ଯ୍ୟର),

Monalegatuuu

សព្រាស

பட்டா நிலத்தில் கனிம உரிமம் (கல், மண், கருங்கல், கிரானைட்) செய்து(கொலினுய் குறித்து ஆட்சேபணை இல்லை என்பதற்கான அறிக்கை

\$ 659

காடனேரி இதனால் அறிவிக்கப்படுவது என்னவென்றால், கதவு எண்:4/117, மேலத்தெரு, கிராமம், வத்திராயிருப்பு வட்டம் என்ற முகவரியைச் சேர்ந்த தி**ரு.மாரிமுத்து த/பெசுந்தரம்** என்பவர் உரிமம் கோரியள்ள கீழ்கண்ட புல எண்களின் நான்கு மால் விபரம்

				செற்கு	கிழக்கு	GUIDO
តារា	சாவே எண்	மற்றும்	வடக்கு	Outer		
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			10/4	10/6	10/8	10/4
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	0 200		10/3	10/5	10/8	10/2
•	10/4 (0-3	5-5)	MENZ ANZ LIDIO	4 Bostquisani	Barly Ing	Hazzolorm
		-	1.1.1.	11/201	11/2027	10/8
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14	LI /2 T	(0.46	-25) 11/2H	11/2]	28/12	mc hain a la
	- IIIAL	(nen 2non	Unon Britingranter	on oneun	11/25
15	11/2-	12 0.	24.5 11/22	15/20	7 28/13	
		al v	neizza	1 man Athaisonto	on nitroni	DE TON DIJO 4 LA

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விருதுநகர் வட்டம் வச்சக்காரப்பட்டி குறுவட்டம் கோட்டையூர் கிராமம் பட்டா எண:1067-ல் புல எண்கள்:10/3(0.22.5), 10/6(0.09.5), 10/7(0.30.0), பட்டா எண்.1573-ல் புல எண்:10/4(0.35.5), பட்டர் எண்.1629-ல். பல எண்:10/12(0.58.0), பட்டா எண்:1493- புலஎண்கள்:11/2A(0.27.0), 11/2C(0.24.5), 11/2D(0.24.5), 11/2E(0.52.0), 11/2F(0.23.0), 11/2G(0.62.25), 11/2H(0.45.0), 11/2I(0.46.25) மற்றும் பட்டா எணி.1608-ல் புல எணிகள்:11/2J2B(0.24.5), 15/2B1(0.37.0) பொத்தம் 5.21.5 ஹெக்டேர் நிலத்தில் உள்ள உடைகல் மற்றும் கிராவல் பணி விபரத்தை அதன் ஆட்சேபணையுடைய நபர்கள் பிரசுரிக்கப்படும் (5- 10- 2-2 தேதியில் இருந்து பதினைந்து தினங்கள் கொண்ட கால அளவிற்குள் மேற்படி கிராமத்தில் கிராம நிர்வாக அலுவலர் மற்றும் வட்டாட்சியரிடம் தெரிவிக்க வேண்டும்.

GBB and SIO DOD -1. Selleand 510 Mandel Pallens so assand 2. 56 621 Q Q B B â. 4. J. galoons Olerri 5/0 (gan wond) 5. m. reaf 3/2° and in And 6. Avilgine

7. Numetrate de 8. Madalpa-

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குராம நீர்வாக அலுவலா கோடடையுள் விருதுநகர் வட்டம்

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S. banges











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வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை ஷிபரங்கள்





தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : விருதுநகர்

வருவாய் கிராமம் : கோட்டையர்

வட்டம் : விருதுநகர்

μίι π. σούπ - 1403

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			உர	மையாளர்ச	ன் பெயர்									
କଟ	ல்லமுத்து		மகன்	ទេ ត	லராஜ் பாண்	ίφ	-							
பல எண்	ல எண் உட்பிரிவு		ៀមឃុំ	நன்(செய்	ற்ற	குறிப்புரைகள்							
			தீர்வை	սդմպ	தீர்வை	uņúų	தீர்வை							
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை							
11	2A	0 - 27.00	0.54				-	TPT2765/13						
11	2C	0 - 24.50	0.49					TPT2765/13						
11	2D	0 - 24.50	0.49				2 	TPT2765/13						
11	2E	0 - 52.00	1.04				-	TPT2765/13						
11	2F	0 - 23.00	0.46				-	TPT2765/13						
11	2G	0 - 70,00	1.41	3 44 1	·			TPT2765/13						
11	2H	0 - 52.50	1.04		(##			TPT2765/13						
11	21	0 - 53.00	1.06	(-			TPT2765/13						
15	5	1 - 16.50	1.61	22				TPT2765/13						
18	3	0 - 42.00	0.58		-			TPT2765/13						
20	1	0 - 35.50	0.49	-	-	2 		TPT2765/13						
28	11A1	0 - 40.50	0.60	(2127)	12222		80	TPT2765/13						
28	4	0 - 35.00	0.49					TPT2765/13 31-01-2005						

குறிப்பு2 :

1.மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 26/05/050/01493/20087 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

https://eservices.tn.gov.in/eservicesnew/land/chittaExtract_en.html?lan=en

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9/18/2020

എള്ളിരുത്തുക ගණා வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள் MAY 2022 6.5415 38 DAUSULIOU & OFTIMION



தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : விருதுநகர்

வருவாய் கிராமம் : கோட்டையூர்

வட்டம் : விருதுநகர்

பட்டா எண் : 1608

1. Ga	ல்லமுத்து		م	கன்		-		
புல எண்	உட்பிரிவு	புன்(செய்	நன்	செய்	ற்ற	ഞഖ	குறிப்புரைகள்
		սդնպ	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரூ - பை	
15	2B1	0 - 37.00	0.50					2017/0103/26/020777- 05-06-2017
11	2J2B	0 - 24.50	0.50		-	-		2017/0103/26/020777- 05-06-2017
		0 - 61.50	1.00					

உரிமையாளர்கள் பெயர்

குறிப்பு2 :

the second s		
	1	மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 26/05/050/01608/20035 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
	2	இத் தகவல்கள் 18-09-2020 அன்று 03:19:14 PM நேரத்தில் அச்சடிக்கப்பட்டது.
	3	கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

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https://eservices.tn.gov.in/eservicesnew/land/chittaExtract_en.html?tan=en

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள் வருக



தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : விருதுநகர்

வருவாய் கிராமம் : கோட்டையூர்

வட்டம் : விருதுநகர்

பட்டா எண் : 1629

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KINALDent UMIANTIC

印度西西西南 WILLIOD & BATTER

MAY 2027.

உரிமையாளர்கள் பெயர்

1. Gச	ல்வராஜ் பா	ண்டி		LC	തെങ്ങഖി	மலே	∎ஸ்வரி	
புல எண்	உட்பிரிவு	புன்	செய்	நன்	ரசார	மற்ற	തഖ	குறிப்புரைகள்
		սյնկ	தீர்வை	սյոր	தீர்வை	սյնկ	தீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரூ - பை	
10	9	0 - 3.00	0.06					2017/0103/26/025858- 16-10-2017
10	12	0 - 58.00	1.16		1797 S		1 55	2017/0103/26/025858- 16-10-2017
10	14	0 - 21.00	0.42		-			2017/0103/26/025858- 16-10-2017
		0 - 82.00	1.64					

குறிப்பு2 :

1.	மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 26/05/050/01629/20048 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2.	இத் தகவல்கள் 18-09-2020 அன்று 03:20:06 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3.	கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்
3.	கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

5. Lonfiegg

									/	2 Sol Buselon Anglievald	1
	(1)		58°				a A		• • ((*	(12 7 MAY 2022)))
	·	-11	17 ^{- 110}		ः , <u>, </u> , , , , , , , , , , , , , , , , , ,	* 58 (в 10) Свп	ு டன டபூர்		BUTWED & BUTWED BURN	the strength
i j	2	3	4	5	6	7	8	9	10	11	
				İ		1	ரு. பை.	ஹ.ஏ.	ரு. ஃப		k
\$ 2	\$-2		цp			••	.*	1 31.5	-	••••	ls:
* 3	3	ø	Ч		7-3	4	2 00	0 32.5	0 65	188, ம. இதம்பர நாடார்	
- 4	%. 4	a	ц	6 6 1	7-3	4	1 00	0 17.5	0 35	31, ச. அழகுமீனம்மாள	1.00
× 5-	5	σ	Ч		7-3	4	2 00	0 19 5	0 39	639, வா. தேன்னரசு ('), கா. லட்சுமித் தாய் (2).	
ر تر میں ***	6	- 31 	°. ≁ų,		7-3		2 00	0 20 0	04	518, மா. இசாமசாயி நாடார்.	
. 7	T	8	H	(3.0	7-3	4	2 00	0 19-5/	0 39	31, ச. அழகுமீனம்மாள்	
6 ^V	8	. σ	-4	.		¢ 4 .	2 i 00°	0 02/5	Q 06,	869, ம, சதம் பரம் ச மற்றும் நால்வர்*	
۲	9	8	Чp			5 4 4		0.04.0			
10	10	.σ	÷, Ч	••	7-3	4	2 00	0 22 5	0 45	188, ចុះ ទិដ្ឋ៤០០ គ្នា៤៧៥	-
11	11	Ŧ	புற –		**	••	a	0 12-0		189 16 Gathin Sarah	A P
15 15	13	0 0	4 4		7-3	: 4	2 00	0 02-0	0 13	639, வா, தென்னரசு (1), தர குட்காகள்	
		1.		8 11 <u>11</u>	-			a ^a	94 - 3	தாய் (2).	
Î	14		3=3 4 {	- 2. 30	\$7-3	24	2 2 00	10.03.0	0 218	் \$1, ச. அழகுமீனம் மாள்	
18	15	σ	4		7-3	4	2 00	0 08.0	0 16	514, மா. இராடிசாமி கேடிதாடால்,	
10	16 16	σ	ų		7-3	4	2 00	0 09.5	0_10	31, ச. அழகுமீனம்மான	in the second second
0(^{- 25}	. **						-1	4 .08.5	5 24		10 P 20 20 -
1 ♦-1	16-1	σ	4		7-3	4	. 2 00	0 770	1 54	531, ஐ. மஞ்சன்கள்க் கர்னன நாடார்.	5
3	. 9	ø	4		7-3	4	2 00	0 38.0	0 76	348; மா. பாண்டி நாடார்.	
3	8		4.	·**	7-3	1	2,00	0 22.5	0 45	290, s. Cermongran	- Angles La
4	4		ų		7-8	4	2.00	0 35.5	0 71	442, த. மீனம்மான	
8	5	σ	4		7-3	. 4	2 00	0 10.5	5 0 21	489, த. இரஞ்சி தம்மான	
6	6		4		7-3	1	2 00	0.09.0		442, த. மீனம்மாள் 200 க சோகாகாக	
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<u>Gruptin Ind</u>		12	 (c ພາງເານ ຫຼື	மிலை	al office	សា	indù UC	.പ്രധങ്ങ്	_µnn#ssb 	Lon Fr @ 3 5	a far strate a

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ł	8	4	- 5	6	7	8	9	10	11	12	
			-	, i - 1		கு. அப்.	ஹெ. எ.	ஞ. வ.			8
10-9	σ	ч		7-8	4	2 0 00	0 03.0	1	191. 5. Seisma	7. 1. 1.	
10	σ	4	`*	7-3	-4	2,00	0, 31,5	0 ₁₀ 63	600, e. an@ (1), @gam	* × ×	OK .
11	0	4		7-3	4.	2, 90	0.75:0	1 50	606, 5, 5 nB (1), gona.		8
12	. F	ų		7-3	54	2 00	0,58 0	名1章 16 第二	191, 5. வெசால் நாடார்.	· · · /	allen 1 Frank
18	-	g n.s.	*	P7-3		2 00	0 14.5	0 42	191, Depend	പടഞ്ഞ്.	
15		ר. נו		7-3	4	1 00	0 08.0	0 16	ธุตน. ก. 348, เอส, บกัสสิตเตม		
									தாடார்.	á.	
					Ĩ	- /	1, 16 0)	81 883 			
11-1	1	、相用		10	4 - 1		0 03.0	. *	ta na ≉na ja a	வன்ற்ற பாதை:	
dia		4	- 10 - 11	7-8		3 00	0 27,9	• 84	78, பா. கந்தசாமி, காரி . டியன் தாயார் கிருஷ்	2	
1 07	σ	4.2		¥8	5	99 E	0 90.0	1 80	ைம்மாள. ப 479, க. முனிராஜ், நுடார்,	νð _a	
1	σ	ુ. જીલ્લા		7-8	4	2 60	0 24.5	0 49	75, பர். கந்தசாமி கார் டியன் தாயார் இருஷ் எப்பமான்.		
1 07	σ	4	• • • •	7⊷5.	4	2 60	0 24.0	0 49			
1	Ð	ч		7-3	4	2 00	0 52.0	1 04	488, க. மாரிப்பாண்டி நிடாரி.	J.	
3 UN	σ	ч	•*	7-3	÷	2 ; 00	8 23 0	0 46	209, க. தத்தப்பாண்டி நாடார்.	5	
2::#	σ	4	••	7+8	4	2 00	Q 70.0	1 41	438, ៩. ស្រាក់ដែយពេសាវេ ត្រាយពេល	F Bit d Bern gil	
2 07	σ	4		7-3	4	2 00	0.52.5	1 04	299, சு. தங்கப்பான்பு	₽ CON 29 .	
t un	• ø	ц		7-3	. 4	2 60	0 53.0	1 06	75, ன்றனர் பர. கந்த சாமி, கார்டியன் தாயார் _ கிருஷ்ணம்மாள்.		
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5. wonhait





2022ம் வருஷம் பிப்ரவரி மாதம்,4ம் தேதிக்கு தமிழ் ஸ்ரீபிலவ வருஷம்

தை மாதம் 22ம் தேதி 2வது பார்ட்டியார் 1வது பார்ட்டியார் (குத்தகை பெறுபவர்) (குத்தகை கொடுப்பவர்) S. Lorn Egit c. selvarnije S. Maheswan ... புத்தகம்ம் வருடத்தியம் ஆவணம்தாள்களைக் கொண்டது.]...வது நாள் ग्रमीश स्थरगुराणा 5.600 5035

விருதுநகர் மாவட்டம், வத்திராயிருப்பு தாலுாகா, குன்னூர் – 626138 ஆண்டாள் நகர் 2வது தெரு கதவு எண் 5/676டி நம்பருள்ள வீட்டில் வசி<u>த்து</u> வரும் திரு.செல்லமுத்து அவர்களின் குமாரர் சுமார் 44வயதுள்ள திரு.C.செல்வராஜ்பாண்டி – (1) (ஆதார் அட்டை எண். 712654702269)

மேற்படி 1வது நபரின் முகவரியில் வசித்து வரும் மேற்படி 1வது நபரின் மனைவி சுமார் 38வயதுள்ள திருமதி.S.மகேஸ்வரி – (2) ஆகிய 1.2 நபர்கள் இருவரும் 1வது பார்ட்டியாராகவும் (ஆதார் அட்டை எண். 660465411211) (இருவருக்கும் செல் நம்பர் – 9842209119)

விருதுநகர் மாவட்டம், வத்திராயிருப்பு தாலுாகா, காடனேரி – 626149 அ.துலுக்கப்பட்டி காடனேரி மேலத்தெரு கதவு எண் 4/117 நம்பருள்ள வீட்டில் வசித்து வரும் திரு.சுந்தரம் அவர்களின் குமாரர் சுமார் 46வயதுள்ள திரு.S.மாரிமுத்து அவர்கள் 2வது பார்ட்டியாராகவும் (ஆதார் அட்டை எண். 547624106736) இருந்து நாமிரு பார்ட்டியார்களும் சேர்ந்து எழுதிக் கொடுத்த குத்தகை ஒப்பந்த ஆவணம்.

இதன் தபசில் கண்ட 1முதல் 8வது லக்கச் சொத்தைப் பொறுத்து 1வது பார்ட்டியாரில் 1வது நபர் பெயருக்கு கடந்த 16.09.2013ம் தேதியன்று எழுதி வாங்கியிருக்கிற கிரையப் பத்திரம் பந்தல்குடி சப்ரி ஆபீஸ் 1.2083/2013 நம்பராகப் பதிவு செய்யப்பட்டுள்ள கிரையப் பத்திரப்படி 1வது நபருக்குப் பாத்தியப்பட்டு எங்களில் 1வது நபர் பெயரால் 1493 நம்பர் பட்டா தாக்கலாகியும்,

2வது பார்ட்டியார் 1வது பார்ட்டியார் (குத்தகை பெறுபவர்) (குத்தகை கொடுப்பவர்) C. Selvanjpa S. Lond Log on S. Maheswan 20 .ග් ළැකින්නේ ..ம் வருடத்திய ... 以南西西边 18. தாள்களைக் கொண்டது.

2 வது நாள

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இதன் தபசில் கண்ட 9, 10வது லக்கச் சொத்தைப் பொறுத்து ஷெ 1வது நபர் பெயருக்கு கடந்த 08.03.2017ம் தேதியன்று எழுதி வாங்கியிருக்கிற கிரையப் பத்திரம் பந்தல்குடி சப்ரி ஆபீஸ் 1.104/2017 நம்பராகப் பதிவு செய்யப்பட்டுள்ள கிரையப் பத்திரப்படி 1வது நபருக்குப் பாத்தியப்பட்டு எங்களில் 1வது நபர் பெயரால் 1608 நம்பர் பட்டா தாக்கலாகியும்,

இதன் தபசில் கண்ட <u>11வக</u> லக்கச் சொத்தைப் பொறுத்து 1வக பார்ட்டியாரில் 2வது நபர் பெயருக்கு கடந்த 18.09.2017ம் தேதியன்று எழுதி வாங்கியிருக்கிற கிரையப் பத்திரம் பந்தல்குடி. சப்ரி ஆபீஸ் 1.703/2017 நம்பராகப் பதிவு செய்யப்பட்டுள்ள கிரையப் பத்திரப்படி 1வது பார்ட்டியாரில் 2வது நபருக்குப் பாத்தியப்பட்டு 2வது நபர் பெயரால் 1629 நம்பர் பட்டா தாக்கலாகியும் நாளது தேதி வரை 1வது பார்ட்டியார் சர்வ சுதந்திர பாத்தியத்துடன் நிராட்சேபணையாய் ஆண்டு அனுபவித்து வருகிற இதன் தபசில் கண்ட சொத்தை எங்களில் 1வது பார்ட்டியாரிடம் 2வது பார்ட்டியார் பெயரால் அரசு உரிமம் பெற்று கல் தோண்டி எடுத்து குவாரி பணி சம்பந்தப்பட்ட சகல காரியங்களையும் செய்து கொள்வதற்காக குத்தகைக்கு விடுமாறு கேட்டுக் கொண்டபிரகாரம் 2வது பார்ட்டியார் 1வது பார்ட்டியாரிடம் கேட்டுக் கொண்ட பிரகாரம் 1வது பார்ட்டியாரும் மனப்பூர்வமாய் சம்மதித்து நாளது தேதி முதல் எதிர்வரும் 8 எட்டு வருட தவைணக்கு தபசில் கண்ட சொத்தில் 2வது பார்ட்டியாருக்கு மேற்படி காரியங்களுக்காக வருடம் 1க்கு குத்தகை ரூபாய்.12,500/- (பனிரெண்டாயிரத்து ஐநூறு) வீதம் 8 வருட சங்கைக்கு குத்தகைக்கு விடுவதற்காக 1வது பார்ட்டியார் 2வது பார்ட்டியாரிடம் ஒப்புக் கொண்டிருக்கிறார்.

1வது பார்ட்டியார் 2வது பார்ட்டியார் (குத்தகை கொடுப்பவர்) (குத்தகை பெறுபவர்) S. Londositsம் ஆவணம் .. புத்தகம் ம் வருடத்திய 18 தாள்களைக் கொண்டது.

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இந்த குத்தகை ஒப்பந்த ஆவணத்திற்கு நம்மில் 2வது பார்ட்டியாரிடம் நம்மில் 1வது பார்ட்டியார் அட்வான்ஸ் தொகை ஏதும் பெற்றுக் கொள்ளவில்லை.

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இன்று முதல் எதிர்வரும் 8 வருட தவணைக்கு நம்மில் 2வது பார்ட்டியார் தபசில் கண்ட சொத்தில் மேற்படி தொழில் செய்தாலும் தொழில் செய்யாவிட்டாலும் அந்தந்த வருட குத்தகைத் தொகையை அந்தந்த வருடம் 2வது பார்ட்டியார் 1வது பார்ட்டியாருக்கு தவறாமல் செலுத்தி நம்மில் 2வது பார்ட்டியார் தபசில் கண்ட சொத்தில் கல் தோண்டி எடுத்து குவாரி பணி நடத்தி 1வது பார்ட்டியாரிடம் ஆதரவு பெற்றுக் கொள்ள வேண்டியதென்றும்.

ஷெ சங்கைக்குள் ஷெ கல் குவாரி குத்தகையை 2வது பார்ட்டியார் 1வது பார்ட்டியாரின் அனுமதியின்றி வேறு நபருக்கு மறு குத்தகைக்கு விடக் கூடாதென்றும்.

தபசில் சொத்துக்களுக்குரிய அடிமனை வரியை 1வது பார்ட்டியாரே செலுத்திக் கொள்ள வேண்டியதென்றும். *குத்ததைக் கொலம் இடுத்த பிண்ணர்* திபதின் அமைத்தை புறைமும் நிலை விலே விது பார் பிருவது வசம் செய்கைக்கேண்டியது. ஷெ சங்கைக்குள் ஏற்படும் தொழில் வரி, மின் கட்டண வரி மற்றும் அரசு அலுவலக வரிகள் முதலியவைகளை 2வது பார்ட்டியாரே செலுத்தி சங்கை முடிவில் வரி பாக்கியின்றி தபசில் கண்ட சொத்தை 2வது பார்ட்டியார் 1வது பார்ட்டியார் வசம் ஒப்படைத்து விட வேண்டியதென்று நாமிருவரும் மனப்பூர்வமாய் சம்மதித்து இந்த குத்தகை ஒப்பந்த ஆவணம் எழுதிக் கொண்டுள்ளோம்.

1வது பார்ட்டியார் (குத்தகை கொடுப்பவர்) C. Sehary Pardi	2வது பார்ட்டியார் (குத்தகை பெறுபவர்) டி. டி.ரிடுத்த
S. Maheswan'	
பட்ட புத்தகம் 22 ம் வருடத்திய ம் தாள்களைக் கொண்டது.	2.20 2.20 Statesonic
	uger Different

லைக்கும் HUDSEN (D)

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தபசில் சொத்து விபரம்

1. விருதுநகர் ரீடி பந்தல்குடி சப்டி விருதுநகர் வட்டம் கோட்டையூர் கிராமம் காட்டில் 1493 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே 11/2A நம்பர் புஞ்சை ஹெக்டேர் 0.27.0க்கு செண்டு 67ம்

2. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1493 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே 11/2C நம்பர் புஞ்சை ஹெக்டேர் 0.24.5க்கு செண்டு 61ம்

3. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1493 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே **11/2D** நம்பர் புஞ்சை ஹெக்டேர் 0.24.5க்கு செண்டு 61ம்

4. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1493 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே **11/2E** நம்பர் புஞ்சை ஹெக்டேர் 0.52.0க்கு ஏக்கர் 1 செண்டு 28ம்

5. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1493 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே **11/2F** நம்பர் புஞ்சை ஹெக்டேர் 0.23.0க்கு செண்டு 57ம்

1வது பார்ட்டியார் 2வது பார்ட்டியார் (குத்தகை கொடுப்பவர்) (குத்தகை பெறுபவர்) S. Log AGgods C. Schanjpardi c. Mahaswani 10 .ம் வருடத்தியம் ஆவணம் .. புத்தகம் இதாள்களைக் கொண்டது. ≳....வது நாள் 5-ontraja 1

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6. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1493 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே **11/2G** நம்பர் புஞ்சை ஹெக்டேர் 0.70.0க்கு ஏக்கர் 1 செண்டு 73ம்

7. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1493 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே **11/2H** நம்பர் புஞ்சை ஹெக்டேர் 0.52.5க்கு ஏக்கர் 1 செண்டு 30ம்

8. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1493 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே **11/2I** நம்பர் புஞ்சை ஹெக்டேர் 0.53.0க்கு ஏக்கர் 1 செண்டு 31ம்

9. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1608 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே 11/2J2B நம்பர் புஞ்சை ஹெக்டேர் 0.24.5க்கு செண்டு 61ம் (முன்பு சர்வே 11/2ஜே நம்பர் புஞ்சை ஏக்கர் 1 செண்டு 36ல் தென்புறம் செண்டு 60ஆக உள்ளது.)

10. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1608 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே **15/2B1** நம்பர் புஞ்சை ஹெக்டேர் 0.37.0க்கு செண்டு 91ம் (முன்பு சர்வே 15/2 நம்பர் புஞ்சை ஏக்கர் 2 செண்டு 70ல் வடபுறம் செண்டு 90ஆக உள்ளது.)

11. மேற்படி கோட்டையூர் கிராமம் காட்டில் 1629 நம்பர் பட்டாவில் கண்ட புதுச்சர்வே **10/12** நம்பர் புஞ்சை ஹெக்டேர் 0.58.0க்கு ஏக்கர் 1 செண்டு 43ம்.

2வது பார்ட்டியார் 1வது பார்ட்டியார் (குத்தகை கொடுப்பவர்) (குத்தகை பெறுபவர்) MARIN 12 . 2 C.S.e c. Maheswa 45360/ ம் வருடத்திய ப் ஆவணம் தரள்களைக் கொண்டது. டு.வது நாள்

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ஆக 1 முதல் 11லக்கச் சொத்தின் கூடுதல் மொத்தம் புஞ்சை ஏக்கர் 11 செண்டு 03ம் அதற்குண்டான சகல பாத்தியங்களும் சேர்ந்தது.

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தபசில் சரி.

1வது பார்ட்டியார் (குத்தகை, கொடுப்பவர்) Maheswa Q.

2வது பார்ட்டியார் (குத்தகை பெறுபவர்)

S. Lond God to

சாட்சிகள்

1. ரீ. சிறைகும் ^{மாது இ} (க.தங்கப்பாண்டி) (வயது 26) த.பெ.கருப்பையா க.எண்.5/305 மாரியம்மன் கோவில் தெரு கலிங்கபட்டி துலுக்கபட்டி விருதுநகர் மாவட்டம் (ஆதார் அட்டை எண். **413572301426**) (செல் நம்பர் - 8695787270)

2. பிருத்து கு.மருதப்பராஜ்) (வயது 59) த.பெ.சுப்புத்தேலர் க.எண்.7/84 எஸ்.கே.பசும்பொன்புரம் சென்னல்குடி மெட்டுக்குண்டு (ஆதார் அட்டை எண். 351468592201) (செல் நம்பர் - 9843270868)

சான்று செய்தவர் 👘 🗄



(ச.இராஜகுரு) ஆவண எழுத்தர் பந்தல்குடி. உரிமம் எண். B-43/VGR of 1984. (Cell No. 7358907842)

7 MA My no & any made 短期选用2 医病性1113 இந்திய அரசாங்கம் 35,2 SOOT O Identification Authority of 🛛 ஆதார் அடையாளத்திற்கான சான்று, குடியுரிமைக்கு அல்ல. 🗉 அடையாள சான்றை ஆன்லைன் ஆதன்டிகேஷன் மூலமாகட Government of India பெறவும். பதிவேட்டு எண்/ Enrolment No.: 2193/13219/93774 🕫 இது எலக்ட்ரானிக் செயல்முறை மூலம் தயாரிக்கப்பட்ட கடிதமாகும். செல்வராஜ் பாண்டி செ Selvaraj Pandi C S/O: Chellamuthu load b Machalut is a proof of identity, not of citizenship. 5/676 D a To establish identity, authenticate online. andal nagar 2 st street II This is electronically generated letter. Kunnur 22/01/2019 Virtidhunagar Tamil Nadu - 626138 9842209119 🎚 ஆதம் நாடு முழுவதிலும் செல்லுபடியாகும். ு வருங்காலத்தில் அரசு மற்றும் அரசு சாரா Generation Date: 07/12/2013 சேவைகளை பயன்படுத்திக் கொள்ள ஆதும் உதவிகரமாக இருக்கும். # Aadhaar is valid throughout the country. Addhaar will be helpful in availing Government. and Non-Government services in future. Signature valid **உங்கள்** ஆதார் **எண் / Your** Aadhaar No. : 7126 5470 2269 VID : 9147 5907 1506 7156 எனது ஆகார், எனது அடையாளம் இந்திய அரசாங்கம் Government of India Linden and the second second strength and the செல்வராஜ் பாண்டி செ Selvaraj Pandi C பிறந்த நாள்/DOB: 20/04/1978 ஆண்/ MALE (in the second Unique Identification Authority of India முகவரி: முகவா: தந்தை / தாய் பெயா: செல்லமுத்து, 5/676 டி, ஆண்டாள் நன் 2 வது தெரு, ரூன்னூர், விருதுதகர், தமிழ நாடு - 626138 Code Address: S/O: Chellamuthu, 5/676 D, andal nagar 2 st street, Kunnur, Virudhunagar, Tamil Nadu - 626138 ž 7126 5470 2269 VID: 9147 5907 1506 7156 எனது ஆதார், எனது 29100 யாளம் 7126 5470 2269 VID: 9147 5907 1506 7156 1047 15 2 www C. sehre αD புத்தகம் ? இ. ம வருடத்திய டம் ஆவணம் 🕺 தாள்களைக் கொண்டது. 8..வது நாள 5.008032

RUIS OFT OIN ő 2 400 & BIG TENES இந்திய அரசாங்கம் Government of India மகேல்வரி செ Maheswari S அறத்த நாக்/DOB: 29/05/1985 பெண்/ FEMALE 6604 6541 1211 VID: 9162 3611 9927 7138 ஆதார். எனது அடையாளம் எனது ழந்திய தனிப்பட்ட அன் மான ஆக்கலாள தன்பா Canal Canal Unique Identification Authority of India முகவரி: கண் வர் தொரர்: செல்லராஜ் பாண்டி, 5/676 டி. ஆண்டாப் நகர் 2 வகு கெரு, குன்குரர், பிருவராக, சுயிழ நடு - 626138 OB Carte with Disorograph Address: W/O: Selvaraj Pandi, 5/676 D, andal nagar 2 nd street, Kunnur, Virudhunagar, Tamil Nadu - 626138 6604 6541 1211 VID: 9162 3611 9927 7138 www ⊳-⊲ 2010 S. Maheswani புத்தகம் ம் வருடத்திய 1 ்.வது நாள் 1.42

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புத்தகம் ..ம் வருடத்தியம் ஆவலைம் 10 வது நான் - ARA

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Unique Identification Authority of India

முகவரி தந்தை / தாய் பெயர் கப்பத்தேவர், 784 எஸ் கேபசம்பொன்புரம், சென்னல்குடி மெட்டுக்குண்டு, விருதுதகர் தமிழ் நாடு, கலை4 Address: S/O: Subbuththevar, 7/84, S.K. PASUPONPURAM. Sennalkudi, Mettukkundu, Virudhunagar, Virudhunagar, Tamil Nadu, 826004

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இந்திய அரசாங்கம்

Government of India

மீறத்த நான் , DOB 12/01/1963

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ஆதாடு - சாதாரண மனிதனின் அதிகாரம்

மருதப்பராஜ் க

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தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

உரிமையாளர்கள் பெயர்

ராவட்டம் : விருதுநகர்

பட்டா எண் : 1493

வட்டம் : விருதுநகர்

<u> வருவாய் கிராமம் : கோட்டையூர்</u>

្រភទ	ப்ல ம <u>ுத்து</u>		மகன் செல்வராஜ் பாண்டி 									
புல எண்	உட்பிரிவு	புன்	சய்	நன்)ម្កាញ	மற்ற	തഖ	குறிப்புரைகள்				
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை					
		வெறக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரூ - பை					
11	2A	0 - 27.00	0.54				1.55	TPT2765/13 18-01-1998				
11	2C	0 ~ 24.50	0.49	-			-	TPT2765/13 18-01-1998				
11	2D	0 - 24.50	0.49	-	1227			TPT2765/13 30-10-2001				
11	2E	0 - 52.00	1.04		1000			TPT2765/13				
11	2F	0 - 23.00	0.46		1225	1447	**	TPT2765/13				
11	2G	0 - 70.00	1.41		-	al est en		TPT2765/13				
11	2H	0 - 52.50	1.04		1 Aar	- 1		TPT2765/13				
11	21	0 - 53.00	1.06				(****)	TPT2765/13				
15	5	1 - 16.50	1.61		The second secon	KER ALS		TPT2765/13				
18	3	0 - 42.00	0.58			1.20	Idiment	TPT2765/13				
20	1	0 - 35.50	0.49	H UGBEID	To it all	A ALL		TPT2765/13 18-01-199				
28	11A1	0 - 40.50	0.60	18 5460 56	ைக் கொண்ட	-	hat	TP72765/13				
28	4	0 - 35.00	0.49			Liệlei	GIGUALANK]	TPT2765/13 31-01-200				
		5 - 96.00	10.30	1	-							

குறிப்பு2 :

1.மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 26/05/050/01493/20087 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

tps://eservices.tn.gov.in/eservicesnew/land/chitlaExtract_en.html?lan=en C-Selvers.pmm S-Maheswan'

S. WITA GATO

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வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்





C-schanjfordi S. Maheswani S. LONA TOR BO , புத்தகம் AM ம் வருடத்தியி المجددان والمعادين 8 தாள்களைக் கொண்டது.

trs://eservices.tn.gov.in/eservicesnew/land/chittaExtract_en.html?lan=en

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தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

ாவட்டம் : விருதுநகர்

வட்டம் : விருதுநகர் பட்டா எண் : 1629

்ருவாய் கிராமம் : கோட்டையூர்

உரிமையாளர்கள் பெயர்

1. ៨៩	ல்வராஜ் பா	ഞ്ഞപ		م	തെബി	យ៤ខ	ஸ்வரி	65	
புல எண்	உட்பிரிவு	புன்(செய்	நன்	செய்	மற்ற	തഖ	குறிப்புரைகள்	
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை		
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை		
10	9	0 - 3.00	0.06					2017/0103/26/025858- 16-10-2017	
10	12	0 - 58.00	1.16		(##2)		1929) 	2017/0103/26/025858- 16-10-2017	
10	14	0 - 21.00	0.42				944) 	2017/0103/26/025858- 16-10-2017	
1		0 - 82.00	1.64						

குறிப்பு2 :



1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 26/05/050/01629/20048 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

இத் தகவல்கள் 01-02-2022 அன்று 05:00:56 PM நேரத்தில் அச்சடிக்கப்பட்டது.

3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரியார்க்கவும்

c. selvaispardi S. Maheswari

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வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்





தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : விருதுநகர்

வட்டம் : விருதுநகர்

விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை.

பட்டா எண் : 1608

வருவாய் கிராமம் : கோட்டையூர்

உரிமையாளர்கள் பெயர்

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 மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 26/05/050/01608/20035 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 01-02-2022 அன்று 05:02:37 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

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யுக்குநர் அலுவு งษณิเวา 12 7 MAY 2022 6mile Barbara யால் & சுராங்கத்த Mining Plan: Thiru.S.Marimuthu Rough Stone & Gravel Quarry: ANNEXURE VII **<u>Copies of previous</u> Enviromental Cearance, Proceedings & Lease Deed of Quarry Workings**
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Dr. H.MALLESHAPPA, I.F.S., MEMBER SECRETARY



இயக்குநர் அதுடு TOBINON UTRON rd Aloor, Panag 1, Jeenis Road, Saidapet MUGD & Chennald 5 Telephone :044 -7435

Lr. No.SEIAA-TN/F.No. 2503 /EC/1(a)/ 1500 /2014 dated: 14.08.2014

To Thiru S. L. Muniyasamy, No 8/17, Mavadi Kaal Kadayanallur Post Thenkasi Taluk Tirunelveli - 627 751

Sír,

- Sub: SEIAA-TN –Proposed Rough Stone Blue Metal and Gravel Quarrying at S.F.No.11/2A, 2C, 2D, 2E, 2F, 2G, 2I, Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District by Thiru S. L. Muniyasamy- Environmental Clearance Regarding
- Ref: 1. Your Application for Environmental Clearance dt: 09.04.2014
 2. Minutes of the SEAC meeting held on 31.07.2014
 3. Minutes of the SEIAA meeting held on 08.08.2014

1. Preamble:-

This has reference to your application first cited. The proposal is for obtaining environmental clearance for Rough Stone Blue Metal and Gravel Quarrying at S.F. No. 11/2A, 2C, 2D, 2E, 2F, 2G, 2I, Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District. The mine lease area of 2.74.0 ha. The proposed mining area is reported as lying in Latitude - 09°26'12"N to 09°26'18"N; Longitude 77°58'49"E to 77°58'57"E in Topo Sheet No.58/G-15.

No forest land is involved. Mine working will be open cast semi-mechanised mining and is proposed upto a depth of 8 metres. The production would be 42810 cu.m of Rough Stone & 17966 cu.m of Top Soil & Gravel over a period of 5 Years. Water requirement of 0.500 KLD for drinking purposes will be sourced through Packed Drinking Water and 1.200 KLD required for dust suppression and green belt will be sourced from Near by bore wells. The proponent has submitted the mining plan approved by the Deputy Director, Geology and Mining, Virudhunagar District vide Rc. KV1/620/2014 dated 27.03.2014. The precise area communication has been approved by the District Collector, Virudhunagar in letter KV1/620/2014 dated 21.02.2014. The project cost is Rs. 72.40 lakhs. EMP cost is Rs.1.20 lakhs.

The proponent has furnished sworn affidavits in the Non judicial stamp paper stating the following:

- 1. The total area of all quarries located within 500 meter radius from the periphery of my quarry does not exceed 5 hectares.
- $\overline{2}_{*-}$ No habitations are located within 500 meters radius from the periphery of my quarry.

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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

The proposal was considered and examined by the SEAC on the directions of the Hoh'ble Supreme Court on bringing all mines within the fold of prior EC, irrespective of theiz Mining Lease (ML) size. Thus the present proposal, though of less than 5 ha lease area (and hence not covered under the EIA Notification 2006) was appraised based on the project documents furnished and the explanation made before the Committee in its 58th meeting held on 31.07.2014. The SEAC has recommended for the grant of environmental clearance for the said Rough Stone Blue Metal and Gravel quarry project.

The proposal was placed before the SEIAA in its 112nd meeting held on 08.08.2014 and the Authority considered the proposal and noted that the size of the mine, production rate, the mineral mined in less than 5 ha area brought under the EC regime on the directions from Hon'ble Supreme Court and hence decided to grant environmental clearance to the said project. Accordingly, the SEIAA hereby accords environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to strict compliance of the terms and conditions as follows:-

2. Conditions to be Complied before commencing mining operations:-

- The project authorities should advertise with basic details at least in two widely circulated local newspapers, one of which shall be in the vernacular language of the locality concerned, within 7 days of the receipt of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at the web site of the SEIAA,TN at http://seiaa.tn.gov.in and a copy of the same is being sent to the Regional Office of Ministry of Environment and Forest, Government of India located at Bangalore.
- ii. Quarry lease area should be demarcated on the ground with wire fencing to show the boundary of the lease area on all sides with red flags on every pillar shall be erected before commencement of quarrying.
- iii. Copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchayat, Town Panchayat/Panchayat union, Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the proponent and also kept at the site, for the general public to see.
- iv. Provision shall be made for the housing of construction labour nearby the site with all necessary infrastructure and facilities such as fuel for cooking, toilets, safe drinking water, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. The proponent shall ensure that First Aid Box is available at site.

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3. Specific Conditions:

i. The environmental clearance will be coterminous with the mine lease period, however limited in to a maximum period of 5 Years from the date of issue of EC.

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- ii. The Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No, 460 of 2004, as may be applicable to this project.
- iii. The proponent shall take necessary measures to ensure that there shall not be any adverse impacts due to quarrying operation on the nearby human habitations, by way of pollution to the environment.
- iv. Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- v. It shall be ensured that quarrying shall not be carried out below ground water table under any circumstances. If ground water table occurs/intervenes within the permitted depth, then also quarrying shall be stopped.
- vi. At the end of mine closure, the Proponent shall immediately remove all the sheds put up in the guarry and all the equipment in the area at the time of closure of the operation of quarry.
- vii. At the end of mining operations and wherever the mined out pit has to be left open as water reservoir, the Proponent shall immediately fence the entire area and access to the public is to be restricted. If the eater accumulated has to be used by the nearby inhabitants, then the water has to be tested periodically for potability and only when all parameters are within the prescribed limit it could be allowed for public consumption. A sign board indicating the potability of the water is to be erected for public information.
- viii. The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM10) and NOX in the ambient air within the core zone shall be monitored periodically. The monitored data shall be uploaded on the website of the proponent as well as displayed on a display board at the project site. The Circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred to in this regard for its compliance.
 - ix. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Regional Office of the Ministry of Environment and Forests, Bangalore.
 - x. Drilling and blasting shall be done only either by licensed explosive agent or by the proponent after obtaining required approvals from Competent Authorities.
 - xi. The explosives shall be stored at site as per the conditions stipulated in the permits issued by the licensing Authority.
- xii. Blasting shall be carried out after announcing to the public through adequate public address system to avoid any accident.

MEMBER SECRETARY

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- A study has to be conducted to assess the optimum blast parameters and blast design to keep the vibration limits less than prescribed levels and only such design and parameters should be implemented while blasting is done. Periodical monitoring of the vibration at specified location to be conducted and records kept for inspection. XIV.
- The Proponent shall take appropriate measures to ensure that the GLC shall comply with the revised NAAQ norms notified by MoEF, Gol on 16.11.2009. XV,
- The following measures are to be implemented to reduce Air Pollution during transportation of
- Roads shall be graded to mitigate the dust emission.

xiii.

- Water shall be sprinkled at regular interval on the main road and other service roads to XVÎ.
- The following measures are to be implemented to reduce Noise Pollution .
 - Proper and regular maintenance of vehicles and other equipment
 - Limiting time exposure of workers to excessive noise.
 - The workers employed shall be provided with protection equipment and earmuffs etc.
- Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks. XVII
- Measures should be taken to comply with the provisions laid under Noise Pollution (Regulation and Control) (Amendment) Rules, 2010, dt: 11.01.2010 issued by the MoE&F, Gol to control noise to the prescribed levels.
- Suitable conservation measures to augment groundwater resources in the area shall be planned xviii. and implemented in consultation with Regional Director, CGWB. Suitable measures should be taken for rainwater harvesting.
- XIX. Permission from the competent authority should be obtained for drawal of ground water, if any, required for this project.
- Topsoil, if any, shall be stacked properly with proper slope with adequate measures and should XX. be used for plantation purpose.
- The following measures are to be adopted to control erosion of dumps:-XXI
 - Retention/ toe walls shall be provided at the foot of the dumps.
 - Worked out slopes are to be stabilized by planting appropriate shrub/ grass species on the .
- Waste oils, used oils generated from the EM machines, mining operations, if any, shall be XXII disposed as per the Hazardous Wastes (Management, Handling, and trans boundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by TNPCB. XXIII
- Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

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- Rain water harvesting to collect and utilize the entire water falling in land area should be xxiv. provided.
- Rain water getting accumulated in the quarry floor shall not be discharged directly to the nearby XXV. stream or water body. If it is to be let into the nearby water body, it has to be discharged into a silt trap on the surface within the lease area and only the overflow after allowing settling of soil be let into the nearby waterways. The silt trap should be of sufficient dimensions to catch all the silt water being pumped out during one season. The silt trap should be cleaned of all the deposited silt at the end of the season and kept ready for taking care of the silt in the next season.
- The lease holder shall undertake adequate safeguard measures during extraction of material xxvi. and ensure that due to this activity, the hydrogeological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area during the mining operation. If at any stage, if it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out. District Collector/mining officer shall ensure this.
- xxvii.

No tree-felling shall be done in the leased area, except only with the permission from competent Authority.

- xxviii. It shall be ensured that the total extent of nearby guarries located within 500 meter radius from the periphery of this quarry is not exceeding 5 hectares.
- It shall be ensured that there is no habitation is located within 500 meter radius from the xxix. periphery of the guarry site.

4. General Conditions:

- i. The project proponent shall obtain Consent to Establish and Consent to Operate from the Tamil Nadu Pollution Control Board and effectively implement all the conditions stipulated therein.
- No change in mining technology and scope of working should be made without prior approval of ii. the Ministry of Environment & Forests.
- iii. No change in the calendar plan including excavation, quantum of mineral should be made.
- The project proponent shall ensure that the plan of mining is in conformity with the mine lease iv. conditions and the Rules prescribed in this regard, clearly showing the no work zone in the mine lease i.e. the distance from the bridges structures adjacent private land, streams river lake etc.
- ٧. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision insurance thereof shall be strictly followed.
- vi. The project proponent shall ensure that child labour is not employed in the project as per the sworn affidavit furnished.
- vii. The project proponent shall undertake plantation/afforestation work by planting the native species on all side of the lease area and the approach road as per the sworn affidavit furnished.
- viii. The proponent shall maintain the village road through which transportation of mineral is carried out at his own cost. The roads shall be blacktopped to the extent required.

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- ix. Quarrying should enrich rather than deplete the biodiversity as a corollary to their intervention in the ecology of their area of activity.
- x. EC is given only on the factual records, documents and the commitment furnished in nonjudicial stamp paper by the Proponent particularly in respect of
 - Aerial distance of the nearest village is as mentioned in the proposal from the mining site boundary
- No structure is located within 500 m from the quarry site boundary.
- Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.
- xii. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Bangalore.
- xiii. The Regional Office of the Ministry located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- xiv. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bangalore, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bangalore, the respective Zonal Office of the Control Board and the State Pollution Control Board.
- XV. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bangalore by e-mail.

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- vvi. Precise mining area will be jointly demarcated at site by officials of Mining 7 Revenue department prior to mining operations for all proposals under consideration. Such site plan, duly verified by competent authority shall be submitted to Environment Department.
 vvii. All necessary statutory clearances shall be obtained before start of mining operations. Completent
- xviii. Mining shall be limited to 7 AM to 5 PM only. The loading shall not be done during night hours.
- xix. Waste water, if any, shall be properly collected and treated so as to conform to the standards prescribed by MoEF/CPCB.
- xx. No wildlife habitat will be infringed.
- Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act,
 1972 from the competent authority, if applicable.
- xxii. Parking of vehicles should not be made on public places.
- xxiii. Transportation of materials shall be done by covering the trucks / tractors with tarpaulin or other suitable mechanism so that no spillage of mineral/dust takes place. No overloading of trucks shall be allowed.
- xxiv. Any change in mining area, SF numbers, entailing capacity addition with change in process and or mining technology, modernization and scope of working shall again require prior Environmental Clearance as per provisions of EIA Notification, 2006 (as amended from time to time)
- xxv. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
- xxvi. This Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
- xxvii. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

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- xxviii. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
- xxix. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules , 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.

xxxi. Hill area conservation Authority approval where ever necessary shall be obtained before commencing the quarrying operation.

xxxii. Any other conditions stipulated by other Statutory/Government authorities shall be complied.

- xxxiii. If the periphery of any other quarry (sand, savudu, rough stone, granite etc.,) is located within 500 mts. from the periphery of this site and if the total extent of both the existing quarry and the quarry now cleared for Environmental Clearance exceeds 5 ha. of mining area, then this Environmental Clearance is not valid, since the activity shall become Category 'B1" project under the EIA Notification, 2006.
- xxxiv. In the event of the above condition is applicable, then the proponent concerned, is to file a fresh application under EIA Notification, 2006, seeking Environmental Clearance in respect of the cluster. [A cluster of mines is defined wherein more than one mining site is located within 500 mts., from the periphery of another nearby mining site and the total area of these mining sites exceeds 5 ha. Then a EIA study report along with Public Consultation are necessitated].

XXXV.

As CSR activity the project proponent shall take care of the needs of a nearby Government school by providing essential amenities.

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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

xxxvi. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

MEMBER SECR

SEIAA-TN

Copy to:

- 1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- 2. The Secretary, Department of Environment and Forests, Government of Tamil Nadu, Tamil Nadu.
- 3. The Secretary, Department of Mines and Geology, Government of Tamil Nadu, Tamil Nadu.
- 4. The Chief Conservator of Forests, Ministry of Environment & Forests, (SZ) Kendriya Sadan, IV Floor, E&F Wings,17th Main Road, Koramangala II Block, Banagalore-560034
- 5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- 6. The Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-32.
- 7. The District Collector, Virudhunagar District
- 8. The Controller of Geology and Mines, Guindy, Chennai-32.
- 9. El Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.

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கவிலங்களும் தவார்களும் - விருதருகர் மாவட்டம் மற்றும் Geneticit: வட்டம் - கோ.டையர் கிராமம் - பட்டா பல என்கள். 11/2A. 11/2C, 11/2D, 11/2E, 11/2F, 11/2G. நிலங்களில் 11/2I-où மொத்தம் 2.74.0 ஹெக்டோ இத்து வருடங்களுக்கு <u>திக S.L.முகிய</u>சாமி என்பவருக்கு கற்குவாரி குத்தகை உரிமம் வழங்கி உத்தரவிடுதல் -Gostinas.

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mmin: 22-09-2014

- unitedal: 1. தாடை பிரையியால், த.பெலெட்சுமணன், கதவு என் 8/17, மாவடி கால், கடையதல்லூர், தென்காசி வட்டம், திருதெல்வேலி மாவட்டம் என்பவரது விண்ணப்பும் earch 03-01-2014.
 - 2. Animproves sugar and 5.5.3.6. 1/620 /2014-1.2 Barch 03-01-2014.
 - 3. விருதுநகர் ஊராட்சி ஒன்றிய ஆணையாளர் கடித எண் ந.க.அ2/3943/2013 நாள் 08-01-2014.
 - 4. விருதநகர் வட்டாட்சியர் கடித எண் நக. அ5/69/2014 mash 13.01.2014.
 - மற்றும் தனித்துணை துணைஇயக்குநர் (கனிமம்) 5. (සක්කාර්) தனிவருவாய் வட்டாட்சியர் ப்யுற் ஆய்வாளர் (கனிமம்) கூட்டுப்புலத்தணிக்கை அறிக்கை marsh. 15.02.2014.
 - 6. விருதாகர் மாவட்ட ஆட்சியர் அவர்களின் குறிப்புரை Grah. 20-02-2014.
 - 7. மாதில கற்றுச்சூழல் பாதிப்பு மதிப்பீட்டு ஆணையம், SEIAA-TN/F.No.2503/ 61688 Geraltenan 5405 EC/1(a)/ 1500/2014, நாள. 14.08.2014.
 - 8. இல்லதுவலக குறிப்பானை எண் ந.க.கேஷி1/620/2014, BITGIT: 25.08.2014.
 - தினபூமி 9. 27.08.2014 நாளிதழ் மற்றும் நாளிட்ட நாளிட்ட தினவணிகம் நாளிதழ் 28.08.2014 ஆகியவற்றில் வெளியிடப்பட்ட பொது அறிவிப்பு.
 - 10. மாவட்ட சுற்றுச்சூழல் பொறியாளா, மாசுக்கட்டுப்பாட்டு வாரியம், விருதுநகர் அவர்களின் ஒப்புதல் உத்தரவு stear 1189, grait. 12.09.2014.

glabout-

திருநெல்வேலி மாவட்டம், தென்காசி வட்டம், கடையதல்லூர் கிராமம் கதவு எண். 8/17 மாவடிகால் என்ற முகவரியில் வசித்து வரும் திரு.லெட்சுமணன் மகள் S.L.முனியசாறி என்பவர் விருதந்தர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராலம் பட்டா பல எனங்கள். 11/2A, 2C, 2D, 2E, 2F, 2G மற்றும் 11/2I-ல் மொத்தம் 2.74.0 ஹெக்டோ பரப்பில் உடைகல் / ஐல்லிகற்கள் மற்றும் கிராவல் ஐந்து

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வருடங்களுக்கு எடுத்துக்கொள்ள பார்வை 1-ல் காணும் மனுலில் கற்குவாரி உரிமம் வழங்கக் கோரியுள்ளார்.

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தொடங்க விண்ணப்பதாரா Curricula ച്ചങ്ങൾ வழங்குவது பெயரிலோ, அவரது குடும்ப உறுப்பினர்கள் பெயரிலோ அரசுக்கு செலுத்த வேண்டிய ஏதேனும் நிலுவையில் உள்ளதா? என்பது குறித்து அறிக்கை பாக்கித்தொகை ູດສຳເງີແມ வட்டாட்சியர் 1 விருதுநகர் ஊராட்சி சமர்பிக்கும்படி விருதுதுகர் பலத்தணிக்கை ஆணைபாளர் ஆகியோடிமும், வின்னப்பிக்கப்பட்ட பலங்களை செய்து அறிக்கை சமர்ப்பிக்குமாற விகுதுதகர் வட்டாட்சியரிடமும் பார்வை 2-ல் காணும் இவ்வலுவலகக் கடிதங்களின்படி கேட்டுக்கொள்ளப்பட்டது.

பார்வை 3-ல் காணும் விருதுநகர் வட்டார வளர்ச்சி அலுவலரின் கடிதத்தில், விண்ணப்பதாரர் பெயரிலோ அவரது குடும்ப உறுப்பினர்கள் பெயரிலோ அரசுக்கு செலுத்த வேண்டிய பாக்கித்தொகை ஏதும் நிலுவையில் "இல்லை" என்று அறிக்கை செய்துள்ளார்.

பார்வை 4-ல் கானும் விருதநகர் வட்டாட்சியரின் கடிதத்தில், மேற்கண்ட இடம் 08.01.2014 அன்று புலத்தனிக்கை செய்யப்பட்டது என்றும், மேற்கண்ட புல என்கள் கணினி பட்டாவில் கீழ்க்கண்டவாறு தாக்கலாகியுள்ளது என தெரிவித்துள்ளார்.

ରା.ଗର୍ଭା.	୍ୟର୍ଭ୍ ଗଙ୍ଗା.	விஸ்திரணம் (ஹெக்டோ)	டட்டா என்.	பட்டாதாரர் பெயர்
I.	11/2A, 2C, 2D, 2E, 2F, 2G uyyub 11/2I	2.74.0	1493	செல்லமுத்து மகன் செல்வராஜ்பாண்டி

தரிசாக <u>p_</u>्रांताला என்றும், மேற்கண்ட நிலம் unonb மேலும், தனக்கு செல்வராஜ்பாண்டி என்பவர் Rebaringed, திரு.செல்லமுத்து 105.61 திரு.லெட்கமணன் DESCR நிலத்தினை மணைகாரர் CLOTHER பாத்தியப்பட்ட S.L.முனியசாமி என்பவருக்கு 7 வருட காலங்களுக்கு குவாரி பணி செய்ய நோட்டரி மேற்படி கற்குவாரி செய்வதற்கு பப்ளிக் முன்பு சம்மதம் தெரிவித்துள்ளார் என்றும், உரிமம் கோரும் புல எண்ணின் நான்குமால் விபரம் பின்வருமாறு உள்ளது எனத் தெரிவித்துள்ளார்.

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புல என். 11/2A-க்கு தான்குமால் : வடக்கு 10/12 அ.காவல்சாமி தேற்கு 11/2B முனியதாசு தாடார் கிழக்கு 11/2G தனது கைவசம் உள்ள இடம் மேற்கு . 11/2B கூழ்வாழத்தன்

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yeo coair.	11/2C-des protestoreb :
M.55	11/2B confuging garan'
ම නුණු ම	14/2 கிருஷ்ணசால் நாடார்
තිගුස්ල 👘	11/2D தனது கைவாம் உள்ள இடம்
Cups-	11/2B gooliugra gaunt

LIED GIGHT.	11/2D-des protegionib :
வடக்கு	11/2B (pallinging) marint
ඉහර	14/2 Basebanond Balat
கிழக்கு	11/2E SHEEL BEALTH & STATE ON ID
and a	11/2C தனது கைவசம் உள்ள இடம்

പ്പരം எண்.	11/2E-க்கு நான்குமால் :
வடக்கு	11/2B தனது கைவசம் உள்ள இடம்
	11/2G
G505	14/2 கிருஷ்ணசாமி நாடார்
கிழக்கு	11/2J தனது கைவசம் உள்ள இடம் 15/1 பானை
மேற்கு	11/2D தனது கைவசம் உள்ள இடம்

பல என். 11/2F-க்கு நான்குமால் : வடக்கு. 11/2B முனியராஜ் நாடார் தெற்கு 14/2 விருஷ்ணசால் நாடார் கிழக்கு 11/2E தனது கைவசம் உள்ள இடம் மேற்கு 11/2C தனது கைவசம் உள்ள இடம்

uso ant. 11/2G-46 preingtoneb :

வடக்கு	10/12, 13, 14 அழகர்சாமி பாறை	S.
தெற்கு	14/2F தனது கைவசம் உள்ள இ	dub
கழக்கு	11/2E தனது கைவசம் உள்ள இ	Lio
மேற்கு	11/2A தனது கைவசம் உள்ள (ALIO
	11/2B	

ମ୍ପର) ସଙ୍ଗ୍ୱା.	11/2I-க்கு நான்குமால் :
வடக்கு	11/2H முனியராஜ் நாடார்
தெற்கு	2J1, கிருஷ்ணசாமி நாடார்
	2.J2 முனியராஜ் நாடார்
கிழக்கு	28/1 ஐக்கம்மாள் கோவிலும், ஒடையும்
மேற்கு	11/2F தனது கைவசம் உள்ள இடம்

5.6002633

மேலும், மேற்கண்ட புல எண்ணில் 300 மீ கற்றளவில் குடியிருப்பு பக்கிகள் இல்லை என்றும், 50 10 சுற்றைவில் சாலைகள், Anula Amin கோவில்கள். மின்கம்பிகள், பாகைகள். திரதிலைகள், வேற் நிரந்தர அமைப்புகள் இல்லை GGT MAD. 6 HILLO GLE5 AL GELISTICTION STAND மக்களிடமிருந்து வரப்பெறவில்லை என்றும்,

புல எனர். 11 புல எனர். 11/21-க்கு சமாது உள்ள தூரம் புல எனர். 11/2G-க்கு சமாது உள்ள தூரம் புல எனர். 11/2G-க்கு கிணது உள்ள தூரம் புல எனர். 11/2G-க்கு கிணது உள்ள தூரம் புல எனர். 11/2I-க்கு கிணது உள்ள தூரம் புல எனர். 11/2A குவாரி உள்ள தூரம் to

61.8 Ư 186.0 Ư 78 Ư 48 Ư 8 Ư

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பட்டா புல எண்கள். 11/2A, 11/2C, 11/2D, 11/2E, 11/2F, 11/2G, 11/2I-ல் மொத்தம் 2.74.0 ஹெக்டோ பரப்பளவில் 5 வருடங்களுக்கு சாதாரண கற்கல், ஐல்லி மற்றும் கிராவல் எடுத்துக்கொள்வதற்கு உரிமம் வழங்கலாம் என பரித்துரை செய்துள்ளார்.

பார்வை 5-ல் கானும் துணைஇயக்குதர் (களிமம்) மற்றும் தனித்துனை வட்டாட்சியர் (களிமம்) மற்றும் தனிவருவாய் ஆய்வாளர் (களிமம்) ஆகியோரின் கூட்டுப்பலத்தனர்க்கை அழிக்கையில், விண்ணப்பிக்கப்பட்ட புல எனக்கள் 15.02.2014 அன்று புலத்தனரிக்கை செய்யப்பட்டது என்றும், மலுதாரர் விண்ணப்பம் செய்துள்ள புல எண்கள் கிராமக் கணக்கில் கீழ்க்கண்டவாறு தாக்கலாகியுள்ளது எனத் தெரிவித்துள்ளனர்.

<u>ରା.ସମ</u> .	Liso ennit.	விஸ்தீரணம் (ஹெக்டோ்)	பட்டா என்.	பட்டாதாரர் பெயர் செல்லமுத்து மகன் செல்வராஜ்பானிடி	
1.	11/2A, 2C, 2D, 2E, 2F, 2G with 11/21	2.74.0	1493		

மேலும், மேற்கனர், நிலம் unanb தரிசாக உள்ளன என்றும், BioGriada), திரு.செல்லமுத்து 056 செல்வராஜ்பாண்டி **GRATLIGUT** 历间基因 LRSSMILL'L GLODLED BRUS BEDER រហាមកាត់ திரு.லெட்சுமனான் மகன் S.L.முனியசாமி என்பவருக்கு 7 வகுட காலங்களுக்கு குவாரி பணி செய்ய நோட்டரி பல்ளிக் முன்பு சம்மதம் தெரிவித்துள்ளார் என்றும், மேற்படி கற்குவாரி பணி

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செய்வதற்கு அறுமதி கோகும் புல என்னின் நான்குமால் உள்ளது எனத் தெரிவித்துள்ளனர்.

ରା.ଗଙ୍ଖା.	புю எண். உட்பிரிவு எண்.	LIFLICTION	GL 65	தெற்கு	(14)	கிழக்கு
1	11/2A	0.27.0	10/12	11/2B	11/2G	11/2B
2	11/2C	0.24.5	11/2B	14/2	11/2D	11/2B
4	11/2D	0.24.5	11/2B	14/2	11/2E	11/2C
4.	11/2E	0.52.0	11/2B 11/2G	14/2	11/2J 15/1	11/2D
5	11/2F	0.23.0	11/2B	14/2	11/2E	. 11/2C
6.	11/2G	0.70.0	10/12, 13,	14/2F	11/2E	11/2A, 11/2B
7	11/2I	0.53.0	11/2H	2,11, 2,12	28/1	11/2F
	மொத்தம்	2.74.0				te als e

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லமுடை நிலுக்கும் குறுகர் மாவும்

12 7 MAY 2022

பின்வருமாறு

UNUIOU & BATTELES

வியரம்

மேலும், மேற்கள்ட பல எண்ணில் 300 மீ சுற்றளவில் குடியிருப்பு 50 மீ சுற்றளவில் சாலைகள், இரயில் இருப்பு ഉർത്ത ഒങ്ങൾ, பக்திகள் பாதைகள், கோவில்கள், மின்கம்பிகள், நீரநிலைகள், வேறு நிரத்தர அமைப்புகள் இல்லை எளத் தெரிவித்து, மனுதாரர் S.L.முளியசாமி என்பவருக்கு, விருதுநகர் மாலட்டம் மற்றும் கட்டம், கோட்டையுர் கிராமம் பட்டா புல எனக்கள். 11/2A, 2C, 2D, 2E, 2F, 2G மற்றும் 11/2I-ல் மொத்தம் 2.74.0 ஹொக்டோ பரப்பு நிலங்களில் கிராவல் wheel கற்கள், ஜல்லி சாதானக் (ஜக்து) வருடங்களுக்கு 5 எடுத்துக்கொள்ள 1959-ம் வருடத்திய சிறுகலிம் சலுகைகள் விதி எஸ். 19 மற்றும் 20-ன்.ஷ அதுவதி ஷுங்கலாம் என பரிந்துரை செய்துள்ளனர்.

பானவ 6ல் கானும் விருதாதன் மாவட்ட ஆட்சியர் அவர்களின் குறிப்புறையில், விருதாதன் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா புல எனக்கள். 11/2A (0.27.0), 11/2C (0.24.5), 11/2D (0.24.5), 11/2E (0.52.0), 11/2F (0.23.0), 11/2G (0.70.0) மற்றும் 11/2I (0.53.0)-ல் மொத்தம் 2.74.0 ஹெக்டேர் பரப்பில் ஐக்கு வருடங்களுக்கு கற்குவளி உரிமம் வழங்க கற்றுச்சூழல் பாதிப்பு மதிப்பிடு ஆணையத்தின் பரித்துரை பெற்று வரும்படி அறிவுறுத்தியுள்ளார். அதனைப்படையில் விண்ணப்பதாரரை சென்னையிலுள்ள சுற்றுப்புறச்சூழல் பாதிப்பு மதிப்பிடு ஆணையத்தின் பரித்துரை பெற்று வரும்படி கேட்டுக்கொள்ளப்பட்டது.

らいのあしかか

பார்வை 7-ல் காணம் மாநில சுற்றப்பறச்சூழல் பாதிப்பு மதிப்பிட்டு ஆணையத்தின் உத்தரவில், விருதருகர் மாவட்டம் மற்றும் வட்டம், கோட்டையுர் கிளமும் பட்டா பல எண்கள். 11/2A, 2C, 2D, 2E, 2F, 2G மற்றும் 11/2I-ல மொத்தம் 2.74.0 ஹெக்டோ நிலங்களில் 5 வருடங்களுக்கு கற்குவாரி உரிமம் வழங்க நிபந்தனைகள் விதித்து அனுமதி வழங்க பரிந்துரை செய்யப்பட்டுள்ளது. மேற்படி நிடந்தனைகளில் வரிசை எண் பிரஸ்தாப இடத்தில் 2(1)-ல் அணையத்தின் 90 நாளிதழ்களில் Statini (விற்பனையாகும் பேசப்படும் மொழிகளில் திட்டத்தை நடத்த உத்தேசித்துள்ளவர் விளம்பரப்படுத்த வேண்டும் என்றும், வரிசை Gumphunguph மாசுக்கட்டுப்பாட்டு வாரியத்தின் பரிந்துரையினை STORE 3(1)-ல் அறிவாத்தப்பட்டுள்ளது.

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BON BELIEVE C. D.A. Cheguerere

பார்வை 8-ல் கானும் இவ்வலுவலகக் குறிப்பாணையில், மாநில கற்றுப்புறச்சூழல் பாதிப்பு மதிப்பிட்டு ஆணையத்தின் உத்தரவில் தெரிவித்துள்ளபடி விண்ணப்பதாரரை மேற்படி புல எண்களில் கற்குவாரி உரிமம் தொடர்பாக, தமிழ் மொழியில் அச்சிடப்பட்டு விற்பனையாகும் இரு தமிழ் நாளிதழ்களில் திட்டத்தை நடத்த விளம்பரப்படுத்துமாறும், விருதுதகர் மாசுக்கட்டுப்பாட்டு வளியத்தின் பரிந்துரை பெற்றுவருமாறும் கேட்டுக்கொள்ளப்பட்டது.

பார்வை 9-ல் காணம் 27.08.2014 நாளிட்ட தினபுமி நாளிதழ் மற்றும் 28.08.2014 நாளிட்ட தினவணிகம் நாளிதழ் ஆகியவற்றில் மேற்படி புல எண்களில் கற்குவாரிப்பணி மேற்கொள்வது தொடர்பாக விண்ணப்பதாரர் பொது அறிவிப்பு செய்துள்ளார்.

பார்வை 10-ல் காணும் விருதுநகர் மாவட்ட மாசுக்கட்டுப்பாட்டு வாரிய சுற்றுச்சூழல் பொறியாளர் அவர்களின் ஒப்புதல் உத்தரவில், விருதுநகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமம் பட்டா புல எண்கள். 11/2A, 2C, 2D, 2E, 2F, 2G மற்றும் 11/2I-ல் மேற்குறிப்பிட்ட விண்ணப்பதாரர் கற்குவாரிப்பணி மேற்கொள்ள நிபத்தனைகள் விதித்து அனுமதி வழங்க பரிந்துரை செய்துள்ளார்.

எனவே, விருதுநகர் வட்டாட்சியர், மாநில சுற்றுச்சூழல் பாதிப்பு மதிப்பீட்டு ஆணையம், விருதுநகர் மாசுக்கட்டுப்பாட்டு வாரியம் ஆகியோரின் பரித்துரையினை ஏற்றும், நிபத்தனைகளுக்குட்பட்டும், திருநெல்வேலி மாவட்டம், தென்காசி வட்டம், கடையரல்லூர் கிராமம் கதவு எலர். 8/17 மாவடிகால் என்ற முகவரியில் வசித்து வரும் லெட்சுமணன் மகன் திரு.S.L.முனியசாமி என்பவருக்கு. விருதுருகர் மாவட்டம் மற்றும் வட்டம், கோட்டையூர் கிராமல் பட்டா புல எண்கள்.

らいしのあしうと

11/2A (0.27.0), 11/2C (0.24.5), 11/2D (0.24.5), 11/2E (0.52.0), 11/2F (0.23.0), 11/2G (0.70.0) where 11/2I (0.53.0) a Guessi 2.74.0 Gama CLi uniuman 42810 56000 L it நிலங்களில் இருந்து, மைனிய் பிளான்-ல் தெரிவித்துள்ளபட அல்லது 15127 யூவிட் உடைகல் மற்றும் 17966 களமிட்டர் அல்லது 6348: யூவிட் கிராவலை 1959ம் வருடத்திய தமிழ்நாடு சிறுகளிம் சலுகை விதிகள் விதி எண்: ஒப்பந்தப்பத்திரம் அட்சியருடன் 19 மற்றும் 20-cir.mg LORGR குத்தகை நிரைவேற்றும் FLERO CONTRACT 1265 வகுடங்களுக்கு கழ்க்கண்ட டுபந்தனைகளுக்குட்பட்டு எடுத்துக்கொள்ள கற்குவாரி குத்தகை உரியம் வழங்கி உத்தரவிடப்படுகிறது.

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Budden and an

Lignman

1. குத்தகைதாரர் இந்த உத்தரவு கிடைக்கப் பெற்றவுடன் 5ஆண்டுகளுக்கான பரப்புவரித் தொகை ரூ.1375/-ஐ சலான் மூலம் வங்கியில் செலுத்தி அசல் சனானையும், காப்புத் தொகை ரூ.5000/-ஐ கீழ்க்குதிப்பிட்டுள்ள கணக்குத் கலைப்பில் செலுத்தி அசல் செனானையும் ஆறிபடுத்த வேண்டும்.

> aniugiQymus Qoguig Comingu anniogi ganniu 8443 Civil Deposits 103 Security Deposits D.P.Code 8443-00-103-AA-010005

- பேலும், 1959ம் ஆண்டு தமிழ்நாடு சிறுகனிம் சலுகை விதிகள் அனுபந்தம் 4ல் கண்ட நமுனாவில் ரூ.23850/- முத்திரைத்தாளில் குத்தகை ஒப்பந்த பத்திரம் நிறைவேற்றி அதனை அவரது சொந்த செலவில் பதிவு செய்து கொடுக்க வேண்டும்
- 3. சரியான முறையில் குறிப்பிட்ட படிவத்தில் கணக்குகள் பராமரிக்க வேண்டும் தினந்தோறும் வெட்டி எடுத்துக் கொண்டு செல்லப்பட்ட கனிம அளவைக் குறித்த பதிவேடுகள் வைத்திருக்க வேண்டும். அவைகளை தணிக்கை செய்யும் அதிகாரிகளுக்கு தவறாமல் காண்பிக்க வேண்டும்
- 4. சொந்த செலவிலேயே குறிப்பிட்ட படிவத்தில் நடைச்சிட்டு அச்சிட்டு நடைச்சிட்டில் துணை இயக்குநர் (புவியியல் பற்றும் சுரங்கத்துறை விருதுநகர் அலுவலக முத்திரையுடன் கையொப்பமும் பெறவேண்டும். குவாரியில் இருந்து களியல் ஏற்றிச் செல்லும் ஒவ்வொரு வாகனத்திற்கும் கண்டிப்பாக நடைச்சிட்டு வாங்கப்படவேண்டும் சோதனையின்போது நடைச்சிட்டு இல்லையென்று கண்டுபிடிக்கப்பட்டால் வாகனங்கள் பறிமுதல் செய்யப்படுவதோடு குவாரி குத்தகைதாரர் மீது நடவடிக்கையும் எடுக்கப்படும்
- குவாரி செய்ய அனுமதிக்கப்பட்ட குறிப்பிட்ட புல எண் மற்றும் குறிப்பிட்ட விஸ்தீரணத்திற்குள் தான் குவாரி செய்ய வேண்டும்

6. குத்தகைதாரர் குவாரியை வேறு யாருக்கும் உள் குத்தகைக்கு விடலாகாது.

7. ஒப்பத்தப் பத்திரத்தில் கண்டுள்ள நிபந்தனைகளுக்கு அவர் கட்டுப்பட்டு நடக்க வேண்டும்.

5. レクタ しょうか

8. பிரதிமாதமும் 5ம் தேதிக்குள் முந்தைய மாதத்தில் குவாரி செய்து எடுக்கப்பட்ட களிம அளவு வெளியில் அனுப்பப்பட்ட களிம அளவு குவாரியில் வேலை செய்யவும் கூலி ஆட்களின் எண்ணிக்கை முதலிய விபரங்களை விருதாகள் மாவட்ட புவியியல் மற்றும் கரங்கத்துறை துணை இயக்குநருக்கு அனுப்பி வைக்க வேண்டும்

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- 9. குத்தகை ஒப்பந்தப் பத்திரம் நிழைவேற்றப்பட்ட பின்புதான் குவாகியில் வேலை செய்யத் தொடங்க வேண்டும்.
- 10. காலை 7.00 மணி மூதல் மாலை 5.00 வரை தான் குவாரிபணி செய்யவேண்டும். இரவு நேரங்களில் களிம பாரங்களை வாகனங்களில் ஏற்றக் கூடாது.
- 11. குத்தகை பற்றிய முழு விபரங்கள் அடங்கிய தகவல் பாகை ஒன்று குவாரியில் கண்டிப்பாக வைத்திருக்க வேண்டும்
- 12. சொந்த செலவிலும் மூயற்சியாலும் குவாரிக்குச் செல்லும் சாலைகள் மற்றும் பாதைகள் மற்றும் வசதிகள் அமைத்துக் கொள்ள வேண்டும்
- 13. தன் சொந்த செலவிலேயே குவாரியில் குத்தகை வரங்கப்பட்ட விஸ்தீரணத்தை வட்ட அளவர் மூலம் அளந்து நான்கு எல்லைக்கும் கல்தான்கள் நட்டு அமைத்துப் பராமரித்து வர வேஸ்டும்.
- 14. குவாரிக்குரிய நடைச்சீட்டுகளை கண்டிப்பாக குவாரியில் இருந்துதான் வழங்க வேண்டும். நடைச்சீட்டுக்களின் அடிக்கட்டைகளை குவாரியில் வைத்திருக்க வேண்டும்.
- 15. குவாரிக்கு அருகில் வீடுகள், சாலைகள், பாதைகள், பின்சாரக்கம்பிகள், பிள்சார டிரான்பார்மர்கள் கோவில், ஒடை, குடிநீர் ஆதாரங்கள் மற்றும் சரித்திரப் புகழ் பெற்ற ஸ்தலங்கள் போன்றவை அமைந்திருந்தால் அவைகளுக்கு சேதம் ஏற்படாதவாறு தேவையான அளவு பாதுகாப்பு இடைவெளி விட்டு குவாரி செய்ய வேள்டும்
- 16. அனுமதி பெறாமல் குவாரியில் வெடிமருந்துகள் பயன்படுத்தக்கூடாது. வெடிபொருட்கள் சட்டம் கண்டிப்பாக கடைப்பிடிக்கப்பட வேண்டும். குறைந்த அழுத்தமுள்ள வெடிமருந்துகளை பயன்படுத்தி குவாரிப் பணி செய்ய வேண்டும்.
- 17. கூளியில் வேலை செய்யும் தொழிலாளர்களின் நலன் பேணப்படவேண்டும். குழுந்தைத் தொழிலாளர்களை குவாரிப் பணியில் ஈடுபடுத்தக்கூடாது.
- 18. அனுமதிதாரர் புராதனச் சின்னங்களுக்கோ, அரசாங்க சொத்துக்களுக்கோ எவ்வித சேதமும் இன்றி குவாரி செய்ய வேண்டும். அருகாமையில் உள்ள பட்டா நிலங்களுக்கு எவ்வித சேதமுயின்றி குவாரி செய்ய வேண்டும்.
- 19. அருகில் அமைத்துள்ள விவசாய **தினங்களுக்கு எவ்வித** பாதிப்பும் இல்லாத வகையில் குவாரிப்பளரி வேற்கொள்ள வேண்டும்.
- 20. அருகில் உள்ள நிலங்களுக்கு 7.5 மீட்டர் பாதுகாப்பு இடைவெளி தூரம் கடைப்பிடிக்க வேண்டும்.

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- 21. மாநில சுற்றுச்சூழல் பாதிப்பு மதிப்பீட்டு ஆணையம், சென்னை கடித எண் SEIAA-TN/F.No.2503/EC/1(a)/1500/2014, நாள். 14.08.2014-ல் தெரிவிக்கப்பட்டுள்ள அனைத்து நிபந்தனைகளையும் தவறாது கடைப்பிடிக்க வேண்டும்.
- 22. விருதுநகர் பாசுக்கட்டுப்பாட்டு வாரிய செயற்பொறியாளர் ஒப்புதல் ஆணை எண் 1189, நாள். 12.09.2014-ல் தெரிவிக்கப்பட்டுள்ள அனைத்து நிபந்தனைகளையும் தவறாது கடைப்பிடிக்க வேண்டும்.

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7 MAY 2022

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திரு.S.L.முளியசாமி, த.பெ.லெட்சுமணன், கதவு எண் 8/17, மாவடி கால், கடையநல்லூர், தென்காசி வட்டம், திருநெல்வேலி மாவட்டம்.

நகல் வருவாய் கோட்டாட்சியர், அருப்புக்கோட்டை.

நகல் வட்டாட்சியர், விருதுநகர்.

நகல் கிராம நிர்வாக அலுவலர், கோட்டையூர்.

நகல் ஊராட்சி மன்றத் தலைவர், கோட்டையூர்.

நகல் கேவி 1 இருக்கைக்கு.

5 Confairs

1188010A A 1012 44 MAY देश हजार रुपये 160 South ITALS TEN THOUSAND RUPE மிழநாடு तमिलनाँडु TAMILNADU D 115 2 2 SEP 2014. S.L. (Plast w Frid) Brook wy angeni APPENDIX-IV (See Rule 19, 20 & 22 of the Tamil Nadu Minor Minerals Concession Rules, 1959) FORM OF AGREEMENT FOR QUARRYING AND CARRYING AWAY MINOR MINERALS FROM RYOTWARI LANDS IN WHICH THE MINERALS BELONG TO GOVERNMENT 22222 Collector's Proceedings No. KV1/620/2014, Dated: 22-09-2014 AGREEMENT MADE THIS day of September 2014 between Thiru.S.L.Muniyasamy, S/o.Lakshmanan residing at Door No. 8/17, Mavadikaat, (Stiving Ligna No. TN 59 2006 00 23376) Kadayanallur Post, Tenkasi Taluk, Thirunelvell District (hereinafter referred to as "the registered holder") which term shall include in these presents where the context so admits include also his heirs, executors, administrators, legal representatives and assigns of the one part and the Collector of Virudhunagar District (hereinafter called "the

Government" which term shall where the context so admits, include his successors in office and assigns) of the other part.

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WHEREAS the registered holder holds (amongst others) the lands described in

the schedule hereunder written (hereinafter referred to as the said lands).

AND, WHEREAS, the registered holder has made application to the Collector of the District of Virudhunagar (hereinafter referred to as "The Collector") seeking grant of quarrying lease for quarrying Rough Stone, Jelly and Gravel in the said lands and has longed with the Collector an accurate map or sketch of the said lands.

AND, WHEREAS, the Collector, acting for and on behalf of the Government, has granted a quarrying lease to the registered holder and allowed him to commence quarrying operations for Five years in the said lands and to deposit mining waste there on by registered holder.

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AND WHEREAS the registered holder has deposited with the Collector the sum of Rs.5,000/- as security against any loss or damage which may be incurred by the Government by reason of any of the said lands being rendered utifit for cultivation by any mining operations therein of the registered holder or by the deposit of mining waste therein by the registered holder.

INOW THESE PRESENTS WITNESS AND the registered holder do here by agreet with the Government in the manner following that is to say:-

1. The registered holder shall be at fiberty at all times during the period of the lease to carry on mining operations for Five years in the said lands in a proper and workman like manner and to deposit mining waste on the said lands and shall at all times, be answerable and accountable to the Government for all acts and defaults by any & his nominees, servants or agents in carrying on such operations or in making

suchiteposit

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2. The said premises shall be held by the lessee for a term of Five years from the flay of September 2014 to the day of September 2019. The registered holder shall pay to the Collector for and on behalf of the Government in addition to the land assessment for the time being payable in respect of the said lands, seightorage on the minor minerals viz. Rough Stone, Jetly and Gravel at the rate specified in Appendix-II to the Tamlinadu Minor Minerals Concession Rules, 1959.

3. The registered holder shall and will keep correct accounts in such form as the Collector shall from time to time require and direct showing the quantities and other particulars of all minerals obtained by the registered holder from the said lands and also the number of persons employed in carrying on the said mining operations therein and

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shall from time to time when so directed by the Collector prepare and maintain complete and correct plans of all mines and workings in the said lands and shall allow any officer hereunto authorized by the Director of Geology and Mining, Chennal-32 from time to time and at any time to examine such accounts and any such plans and shall when so required supply and furnish all such information and returns regarding all or any of the matter aforesaid as the Government shall, from time to time require and direct.

4. The registered holder shall and will at all times, allow any Officer authorized by tile Director of Geology and Mining, Tamilnadu in that behalf to enter upon any part of tile said lands where any mining operations may be carried on for the purpose of insplecting the same.

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> 5 The registered holder shall forthwith sent to the Collector a report of any accuration may occur at or in the said lands and also the discovery of any minerals other than Rough Stone, Jelly and Gravel.

> 6. It shall be tawful for the registered holder at any time to cease mining operations under these presents provided he shall pay to the Collector, for and on behalf of the Government land assessment, cess and seigniorage due to the Government and shall restore the said lands or fence or fill in abandoned pits and excavations therein if required by the Collector and upon his so doing these presents shall cease and determine.

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7. In case the registered holder shall relinquish the whole or any part of the said lands or in case of expline or sconer determination of this agreement then and in any such case, he shall restore the lands so relinguished or so much thereof as the Collector shall require to be restored to a state fit for cultivation or shall securely and permanently fence or fill in all such abandoned pits and excavations therein as the Collector shall require to be so fenced or filled in and in case the registered holder shall fall or neglect to restore any such lands which he shall be required to restore to a state fit for cultivation, or to so fence or fill in any such abandoned pit ogencavation which he shall be required to so fence or fill in them and in such case, it shall be lawful for the Collector

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uncultivable, it shall be lawful for the Government to recover the balance by resort to

Civil Court.

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10 -211 1131 एक सौ रुपये Rs. 100 St orgrowthe **ক. 100** HUNDRED RUPEES सत्यमेव जयते भारत INDIA INDIA NON JUDICIAL தமிழீநாடு तमिलनाडु TAMILNADU S-L War War S AV 689799 DIRAN and a constant which accounted িন্দ্রা গ 1.01.2012/01/20 1-1/2-2-02 8. The registered holder shall not be entitled to any remission of assessment in respect of any of the said lands which shall be rendered unfit for surface cultivation by the carrying on of any mining operations or by the deposit of mining waste, unless thirty times the assessment thereon has already been deducted under the proceeding clause.

9. The registered holder shall not assign lease or part with the possession of the said lands or any part thereof for the whole or any part of the said term without previous intimation in writing to the Collector. He also shall not produce dimensional stones fit for polishing purpose.



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10. If the registered holder does not intend to carry on mining operations himself, but intends to lease out the right to do so to another person the registered holder and his lessee shall enter into an agreement with Government binding themselves jointly and severally to accept the conditions and stipulations herein contained which agreement shall be in the form set out in Appendix-V to the Tamilnadu Minor Mineral Concession Rules, 1959.

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11. All land assessment, cess and seigniorage payable, under these present shall be recoverable under the provisions of the Tamilnadu Revenue Recovery All 1864, as if they were arrears of land revenue.

12. In the event of any breach by the registered holder by any of the conditions of this agreement, it shall be lawful for the Government to levy enhanced seignlorage fee or for the Collector to give notice in writing to the registered holder of his intention to cancel these presents whereupon the same shall stand cancelled but without prejudice to any rights which the Government may have against the pattadar in respect of any antecedent claim of breach of covenant or condition.

13. Any notice to be given to the registered holder may addressed to his last known place of abode and where a notice has been so addressed it shall be deemed to have been duly served for the purpose of these presents.

14. Should any question or dispute arises regarding the agreement executed in pursuance of these rules or any matter or thing connected therewith or the powers of the registered holder there under, the amount or payment of the Seigniorage fee or Area. Assessment made payable thereby, the matter in issue shall be decided by the Director of Geology and Mining. In case the registered holder is not satisfied with the decision of the Director of Geology and Mining, the matter shall be referred to the State Government for decision.

15. The registered holder shall abide by the conditions laid down in the payment of wages Act 1936 (Central Act IV of 1936), the Mines Act, 1952 (Central Act XXXV of 1952) and the Indian Explosives Act, 1884 (Central Act IV of 1884).

16. The registered holder should demarcate the lease hold area at his own cost and shall quarry Rough Stone, Jetty and Gravel only within the area leased out to him and keep the boundary stones; painted and maintained at all times.

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17. The registered holder shall make his own arrangementations cather, bather, s channels and ramp etc. to the quarry at his own cost.

18. The registered holder shall obtain the permits and dispatch slips to the transport of Rough Stone, Jelly and Gravel from the Deputy Director of Geology and Mining Virudhunagar. The despatch slips shall be kept in the quarry site and be issued to all the vehicles while transporting the Rough Stone, Jelly and Gravel from the quarry.

19. The registered holder should leave necessary safety distance from the features like road, low tension and high tension power lines, transformers, temples, villages, place of Historical importance and Archaeological importance, Highways habitations etc., as per relevant Mettalliferrous Mines and Minerals Regulations Act, 1961 and as per Tamilnadu Minor Mineral Concession Rules, 1959.

20. The registered holder shall put up a board at the entrance of the lease hold area showing very clearly the details of the S.Nos., Villages, Extent of the Area, Period of Lease, the authority granting the lease etc.

21. The registered holder shall immediately report any accident that may occur at the quarry site to the District Collector, Deputy Director of Geology and Mining and other authorities concerned including the Director of Mines Safety, Ooragaum, Kolar District, Karnataka State.

22. The registered holder should strictly adhere to the conditions and rules stipulated by the Government for the minor minerals from time to time.

23. Quarrying should be done without any hindrance to the adjacent pattadars.

24. Quarrying should be done 7.5 mins away from the boundaries of the area granted for quarry lease.





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the lease shall become liable for automatic termination without any phor notice

25 in case event of any preach of rules g

26. The Lessee should do quarrying operation as per the Mining Plan, Environmental Clearance Letter No. SEIAA-TN/F.No.2503/ EC/1(a)/1500/2014, Dated 14.08.2014 and Proceedings No. 1189, Dated: 12.09.2014 of Tamil Nadu Pollution Contro Board, Virudhunagar,

THE SCHEDULE

DISTRICT : VIRUDHUNAGAR

TALUK: VIRUDHUNAGAR

e lease states app. e

Survey No	Applied	Safety	Safety Lease area in granted Nectares Area in Hectares	Four Boundaries			
	area in hectares	area in hectares		North	South	East	West
11/2A	0.27.0		0.27.0	10/12	11/2B	11/2B	11/20
11/2C	0.24.5		0.24.5	11/2B	14/2	11/2B	11/20
11/2D	0.24.5		0.24.5	11/2B	14/2	11/2C	11/28
11/2E	0.52.0	•••	0.52.0	11/2B 11/2G	14/2	11/2D	11/2J 15/1
11/2F	0.23.0		0.23.0	11/2B	14/2	11/2C	11/28
11/2G	0.70.0		0.70.0	10/12, 13, 14	14/2F	11/2A, 11/2B	11/2E
11/21	0.53.0		0.53.0	11/2H	2JI, 2J2	11/2F	28/1
TOTAL	2.74.0		2.74.0			5	

VILLAGE : KOTTAIYUR

All that pieces and parcels of land situated in Kottaiyur Village in Sub Registration Taluk of Pandalkudi within the Registration District of Virudhunagar.

For the purpose of stamp duty the anticipated Five Years Seignlorage Fee from the

demised land is Rs. 23,715, 600/ 1465 IESSEE! S.605635 Chon SAD 382

GOL Hrudhunagar District i fradhunagara

IN WITNESS WHEREOF Thiru.S.L.Muniyasamy, So Laisense ar residing at Do: No. 8/17, Mavadikaal, Kadayanallur Post, Tenkasi Taluk, Thiruneiveli District the registere holder and the Collector, Virudhunagar District acting for and on behalf of and by the orde and direction of the Governor of Tamilnadu have hereunto set their respective hands.

SLOOM

Signed by bearby named

Sigr enamed Virudhunagar in the presence of

Ji C. Scharjeh Jigis Dami Barn.

1. S. SYED BASHEER AHAMED DEPUTY DIRECTOR GEOLOGY AND MINING VIRUDHUNAGAR DISTRICT VIRUDHUNAGAR

2. Chill Gon A HADER SAN Sto V.P. charan Yirrone sinson MADURA1-107

2. G. LOGANATHAN SPECIAL DEPUTY TASHILDAR, MINES Virudhunagar District Virudhunagar

Drafted by :- Rig (H.K.MARAVEW, LNDIA122/VQR/99 PANDAL GIDI) \$ 6166308 States 2014 1.15 12

CERTICATE UNDER SECTION LE DE STAME ADT in saidet of 2014 _ english account of that a sum of Rs. 2450/ Rupers 11- Thousands Nine - - from MUNIYASAMY residing at S/17, Maladycal / Karton pariod Signature of SUBREGISTRAR & Collector =anthalkudi Under Section 41 of the Indian Stamp Ach Date: 26/09/2014 ியல் & சுராங்கத்

Presented in the Office of SUBREGISTRAR of Panthalkudi and fee of Rs. 20300 paid between hours of and apply on 26/09/2014 by



· S. Cladua

Additions as per the recitals of the document.

Execution Admitted by

I have satisfied my self as to the execution of the Instrument by Thiru THE COLLECTOR.VIRUDHUNAGAR who is exempted from Personal Appearance under Section 88(1) of the Registration Act.

Stan Below S.B-REGISTRA

PANDALGUC



Sheet no. 1 of 2

5-60/038

C California C SIL MAI Additions As per the recitats of the document ியல் & சுரங்கள் Identified by Enz C Name : மகாராஜன் ச 1 S/o சந்திரன் 1/126 அழகர்தகர் Y.நரசிங்கம் மதுரை 2 12 Carin (Name : Cougiernal Gur S/o போத்துலிங்கம் யாவாடிக்கால் கடையல்தல்லூர் 26th day of September 2014 State States இ. முருகேசன் SUBREGISTRAR Panthalkudi Registered as No 1465 of 2014 of Book I மீ. முருகேசன்) Date : 26/09/2014 SUBREGISTRAR Panthalkudi 96 96 91 90 9 Brain: 1405 abatin 2014 uss and lb Change 12 Sheet no. 2 of 2 S. Conficings

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accounty = TV (S	ice mula 19,30622 of the	e remit Nada Minor	Minerals Conc	ession_gules,1959)_EORE_CZ
12250210 200 0	MARRYING AND CARRYING AN	AY MINOR MINERALS	PROM RYOTHAS	LANDS IN WHICH THE MINERAL
VIRENIENT FUR US	wrat collector's Proces	dings No. KVI/360/	2005 pated 20.	7.2005 AGREENENT MADE THIS
SEPONG TO GOARN	at 2005 berugan Thiru	v. Thennesimuthu S	o.veerakon re	siding at galaperunelpatti
nillete, virudbi	ail frank Card	20161026014 par District inste	Porter reter	red to as "the registered
holder") which	term shall I include in	these presents whi	ere the contex	t so admits include also
his heirs, exact	itors, administrators,	legal representait	vas and ession	13, on the one part and the
collector of Vi	rudhunagar District (ha	re in sitter called	the Governmen	at which term shall where a
the context so i	idmits, include his suc	cessors in office	and assigns) (30 the other Parts
ARES V. ALMONT	DOWN LESSON MAR	a-road Adama	(2)	WHEREAS the registered
bolder holds (9	monget others) the land	s described in the	schadule hor	aunder written (herein aft-
- referred to :	a the seid lends) ABD.	WHEREAS, the regis	tered holder	has made application to the
and Looper of the	e pistrict of Virudhune	iger (herein after	referred to a	s "the collector" seeking.
orant of quarry	ing lesse for querrying	Rough Stone in th	e said lands	and has lodged with the st
milector en.es	curate map or akatch of	the said lands A	D, MHEREAS, t	he collector acting for an
on behalf of th	e government has grants	ed a querrying less	ie to the regi	stered holder and allowed
him to commence	quarrying operations i	for five years in	the said lands	and to deposit mining wasth
there on by ret	istered holder	SBEE V. Brang-D G	LESSOR	Malormeral Astorno -2
(3)	MEREAS the registered	holder has deposit	ed with the Co	illector the sum of Rs.5000/
as security ag	sinst any loss of demag	e which may be inc	arred by the c	soverment by reason of any
of the said la	nds being rendered unfi	t for cultivation	by any mining	operations dieler www.russe
registered hol	der or by the deposit o	f mining wasta the	reon by the r	IGISCHEN HOADELL ADD THANK
PRESENTS WITH	iss and the registered b	older both here by	<u>sorae with t</u>	ha covertment in the manner
following that	t is to sys-1, the regist	bergd holder shell	be at liberty	at all times during the per
Lind pf t a lai	<u>ise to carry on minion (</u>	operations for five	years in the	said lamis in a proper and
workpan like a	wanner and to deposit m	ining wasts on the	said lands an	d shalt at all times be answ
erable and sca	countable to the Governi	ment for all acts a	nd defaulta b	y any of his nominees serven
ts or agents i	n carrying on such ope	rations or in makin	ig such deposi	Comment of Monthered Presses
Malanogad	Adam 125508 (4) 2.	The said permises	snali be heid	by the lesses for the term
AT FINE YEARS	From the day of 04 Aug	at 2005 to the 03	day of August	2010 The registered holder
shell pay to t	he collector for an on	behalf of the Gove	rment in add	ition to the land assessment
for the time b	eing payable in respect	of the said lands	scigniorage	on the minor minerals viz Ro
uch Stope at t	ne rate specified in Ap	opendix II to the 1	Mailnadu Mino	r Minerals Concession Rules
Anderio Dawynai a	walaction + V Jonas P	FD . FR		
spine (w Griegoni (cz	used : A all		1949)-2 <u>005</u> ₁₉₆ 6 д Д. дляканта С) Б. С.	ysing 228 anin ng ging ginin lansin an the second
Regalt - 2(c) - 10	98.009 Cps C.B.R 53dir - 2985.	- Stade		

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1959.3. The suistered holder shall and will keep correct accounts in such from as the Collector shall from time to time required and direct shawing the quantities and other particulars minersis obtained by the egictered holder for the said lands and also the mumber of persons empl oyed in carrying on the said mining operations therein and shall from time to time when so direc toed by the Collector prepare and maintain complete and correct plans of all mines and working in the sid lands and whall allow any officer hereunto sutherized by the Director of Geology and mining Chemnai 32 from time to time and of any time to exemina such acounts and any such plans and shell when so required supply and furnish all such inform action and roturns regarding all or any of the matter aforesal as the government shall for time to time would and direct the Director of a registered molder shall and will at all times ellow any officer authorised by ology and Mining Temilnadu in that behalf to enter upon any part of the said lands ing operations may be carried on for the purpose of inspecting same.5. The registered holder and apa wil forthwith sent to the Collector report of any accident which may prour at or in the lands and also the discovery therein of any minerals other than Rough Stone.6. The It shall be lewful for the egistered holder at any time to cease mining operating under those presents prov ideo he shall to the Collector for and on behalf or the Government lan assessment cess and self niorage due to the government and shall restore the said tan a or fence of fill in abandoned gi and exacuations therein if equired by the collector and upon his so doing presents shall cause -7. TO CASE registered holder shall relinquish the whole or any part of the aid lands or in case experior sooner determination of this agreement then and in any such case he shall restore the lands sol elinquianed or so much thereof as the Collector shall require to be restored to as state fit for cuitivation or shall securety and personently fance of fill in all such shandoned of to add ations there in as the Collector shall require to be so fenced or filled in and incase the real tered holder shall fail or neglect to estore to a state fit for cultivation in any such pits or excaustion at the expense of the egispered holder and to of Rs.5000/- so deposited in or towards the cost of so doing and to deduct the said deposit and retain on behalf of the government & sum equal to thirty times the assess of thesaid lands.which shall have been rendered unfit for cultivation If however the amount of deposit is not sufficient to mover the cost of such restoration of filling in or to meet thirts times the essessment on the area rendered uncultivable if Sheil be lawful for the Government to recover the balance by resort to Civil Court.8. The registered holder shall not be entitled to a any remission of assessment in respect of any of the said lands which shall be endered unfit for and and an examine mattine means Variant BB-

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rations or by the deposit of mining Wast	rface cultivation by thecarrying on of
peen deducted under the proceeding claus	less thirty times the assessment there of
ith the possession of the said lands or	me contractor holder shall not assign 1
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produce dimensionals stone fit for poli	hy part thereof for the the collector He
to carry on mining operations himself	10 TE the revistaned holder
rson the registered holder and his lease	wing pirpose 10.11 the right to do ad
maselves jointly and severally to accept	it intend to rease out the tith doverna
greement shall be in the form set out in	hall anter into an equivalent the herein con
as 1959	The conditions and complete Minor Mineral
ess and seigniorage payable under these	(1.85508(6)
Tamilnadu Revenue Recovery Act 1864 as	Multimet and the receiverable inder the Dri
any breach by the registered holder by	resent ones of land revenue 12.
ul for the covernment to levey enhanced	an of the conditions of this agreement i
riting to theregistered holder of his in	in for the collector to g
nd cancelled but without prejudice to to	there are the second state presents whereupo
tadars in respects of any antecedent cla	any rights which the Government may have
ce to be given to theregistered holder	m of hyperch of convenient or condition 1
a notice has been an addressed it stall	addressed to bits last known place of
pr sents 14, Should anyquestion or disput	and as have been duly sorved for the Di
these rules of any matter or thing connec	tions remerfine the arreament executed 1
were under the amount of payment of the	1 2000 Teges wante site - growthing of the sector
here have the matter in issue shall be de	tied therewith of the powers of the regis
registered holder is not satisfed with	of the Seigniorage fee or Area Assessment
	cided by the Director of neology and mini
natter shall be referred to the Statugova	the decision of the Director of Geology a
by the condition laid down in the payment	ment for decision 15. The registered hold
: 1952 (Central Act XXXV of 1952) and the	of Wages Act 1936 (Central Act 19 of 1938
the registered holder should demarcate th	Indian Explosives Act 1884 (Central Act 1
itone only withing the area leased out to	lease hold ares of his own cost and shall
t all times 17. The registered holder sha	his and keep theboundary stones painted a
and ramp storto the quarry at his own co	il make his own arrangements for road pat
www.18.The registered holder shall obtai	st
augh Stone from the Assistant Director of	n the permits and despatch alips for the
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18auer Geology and Mining Virudhunagar The depatch slips shall be kept in the gu to all the vehicles while transporting the rought Stone from the quarry 19. The registered holder shall loave a safety distance from the features like road low rension and high-tension power lin es transformers temples villages place of Historical importance and Archaeological importance Highways habitations at as per relevantregulations Mataliferrous Mines and Regulations Act 1961 and as per Tamilnadu Minor Minerals Conncession rules 1959.20. The registered holder shall put up a board at the entrance of the lease holds area of showing very clearly the details of his S.Nos villages Extent of the Area Pariod of Lease the authority granting the lease stc.21. The register ed holdershall immediately report any accident that may occur the quarry site to the district o liector Assistant Director of Ceology and Mining and other Authorities concerned including the b tractor of Mines Safety Oorsgamm Kolar District Karnataka State 22. The registered holder shall strictly adhere to the conditions and rules stipulated by the Government for the Minor Minerals from time to time.23. In case even of any breach of rules or the conditions of the lease stated shows the leaseshall become liable for automatic termination without any prior notice.24. The registered holder lease shall not disturb the Odal situated on the and the adjointing parts land IN MANAGER THE SCHEDULE DISTRICT VIRUDHINACAR PALKKIVIRUDHINAGAR VILLACE KOTTAIYUR your poundaries Lease Area in _ Applied Area in Safety Area in Survey East Hactares Hectares North South _ Hectares NO .___ 9.37.0 0,37.0 15/2Bl 0.27.5 0.27.5 11/2.72 0.64.5 0.64.5 ratal --- V. Imma AGis LESSEE Hahamer Allan LESSOR (8) ---- All that incos and parcels of land situated in Virudhunager in Sub Registration Taluk of Virudhunager withing the Registration District of virudhunagar for the purpose of stamp duty the anticipated Annual Seigniorage Fae if on the demisedlands is Rs.34000/A DO WITWESSESS WHERE OF Thiru V.Thennesimuthu S/O Vearskon iding at Kalaperumalpatti village Virudhunagar Taluk Virudhunagar District the registered holds and the collector virudhunager District Acting for and on behalf of any by the order and direct ion of the covernor of Tamilhadu have hereunto set their respective hands V dynu to good by signa by the above named in the presence of Mahamera to law LESSOR COLLECTOR Virudhun agar District rudhunagar Signed by the above named in the present of loy 1.3.Syed Bashear Ahamed (1.5.Syed Bash Abaned) ASSISTANT DIRECTOR GEOLOGY AND MINING VIRITHAMAGAR DIST .VIRIDHAMAGAR CONTRACTOR OF A CONTRACTOR OF A CONTRACT OF redad Govinud water ustor : V. 2003 0 anitan ((undani) :

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ஓயக்குநர் ச ð WILLIED & ATTITUES BY Mining Plan: Thiru.S.Marimuthu Rough Stone & Gravel Quarry: ANNEXURE VIII VAO – CERTIFICATE WITH SITE PHOTO 395



மேற்கண்ட புகைப்படம், விருதுநகர் மாவட்ட துனை இயக்குனர், கனிமம் மற்றும் சுரங்கத்துறை அவர்களின் கடிதம் ந.க. எண்: கேவி1/519/2020-நாள்: 25.02.2021–ன் படி, விருதுநகர் வட்டம், கோட்டையூர் கனிமம் கிராமம் புல எண்கள் 10/12, 11/2A,2C,2D,2E,2F,2G(P),2H(P),2I(P),2J2B மற்றும் 15/2B1 மொத்த பரப்பளவு 4.24.0 ஹெக்டேர் உள்ள இடத்திற்கு வத்திராயிருப்பு வட்டம், விருதுநகர் மாவட்டம், காடனேரி கிராமம், <u>அ துலுக்கப்பட்டி</u> **அஞ்சல்**-626149 மேலத் தெரு **डाळंग**.4/117 கதவு இல்லத்தில் வசிக்கும் திரு. சு.மாரிமுத்து த/பெ. திரு.சுந்தரம் அவர்களுக்கு 5-வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவாரி செய்ய அங்கீகரிக்கப்பட்ட இடம் என்பதை இதன் மூலம் சான்றளிக்கிறேன்.

மேற்படி இடத்திற்கு 500மீ சுற்றளவில் புராதனக்கோவில், பள்ளிக்கூடம் மற்றும்; புரதானச்சின்னங்கள் ஏதும் இல்லை என்றும் மேற்படி இடத்திற்கு செல்வதற்கு சாலை வசதி உள்ளது என்றும் சான்றளிக்கிறேன்.

கிராம நிர்வாக இலுவலா மன்னார்கோட்டை கிராமல விருதுதகர் வட்டம் FIC Banion us

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(RQP/MAS/224/2010/A)



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தமிழ்நாடு तमिलनाडु TAMILNADU

SRIMANGALASUNDARIEXPLOSIN

SIVANDIPATTI

Jale :21/02/2022

Value: 23. 1001 -

AGREEMENT

This agreement made on the day of 21.02.2022 between Thiru S.Mari muthu S/O Sundaram,4/117,Mela Street,Kadaneri Village, A. Thulukkapatti Post, Watrap Taluk, Virudhunagar district (here after called the owner of quarry)

And

Ę Sri Mangala sundari Explsoives, 105/2.Mudukkalan s kulam Road, Sivanthipatti Village ,Mudukkalan kulam post, Sivanthipatti -628720, Kovilpatti Taluk, Thoothukudi District, having Explosive License B No. E/SC/TN/22/33/E10121 and E/ HQ /TN22/ 175/E43562 and explosive magazine situated at Sivanthipatti village here after referred as dealer of explosives.

Whereas the owner of the quarry having Rc No.KV1/519/2020-Mineral -25/02/2021, quarry survey No. 10/12(0.58.0),11/2A (0.27.00), 11/2C(0.24.50),11/2D (0.24.5), 11/2E(0.52.0) ,11/2F(0.23.0), 11/2G(P)(0.62.25), 11/2H (P) (0.45.0), 11/2I (P) (0.46.25),11/2J2B (0.24.5), 15/2B1 (0.37.0)- 4.24.0 Hec the survey numbers are within Kottaivur Village, Virudhunagar Taluk & District.

And whereas the dealer of explosives have agree to carry out the blasting operation with skillful short firer with in valid date.

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KOVILPATTI L.NO: 11/2021

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Whereas the Party of the second Part has decided to entrust the work of conducting blasting operation in his/their quarry work to/the party of the first part on contract basis as per mutually agreed terms and conditions.

Whereas the party of the second part is responsible for blasting operation and also making his own agreements for the explosives and exploding machines/equipments required for the work. The entire blasting in the above quarry and the posses of blasting equipments will be handled by the party of the second party having valid license and short firer permits under the Explosives Rules,2008 issued by the Department of Explosives and here by undertake the responsibility for the work entrusted.

where as payments will be made periodically by the Party of the first part for the quantity of explosives used and hours & time of the exploding equipments put into use calculations will be made and element will be arrived at on the completion of blasting operations.

SIGNED BY BOTH PARTIES

PARTY 1 :

S. Loria Sig

For Thiru S.Mari muthu avl,

PARTY 2:

K. Baar

For Sri Mangala Sundari Explosives,

SIGNATURE

WITNESS: 1. K. B. Mulil K. B. Mural Krishnan, Sto. K. Baskar,

85, New Yourd, Kovilpatti.

2.

S. Lonhazz

Cert No. MR/SZ/ 56t

भारत सरकार/Government of India खान अधिनियम, 1952/Mines Act, 1952 खनन परीक्षा बोर्ड/Board of Mining Examinations खनन मेट सक्षमता प्रमाण-पत्र MINING MATE'S CERTIFICATE OF COMPETENCY (क्रेवल ओपेनकास्ट जानों तक सीसित) (Restricted to mines having opencast workings only) (धात्विकीय खान विनियम, 1961 के अन्तर्गत) (Under the Metalliferous Mines Regulations, 1961)

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Board of Mining

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जिनको जन्म तिथि हत अनुभव का सन्तोषजनक प्रमाण आयु, स्वस्थता, सदाचार, साधारता और शालिकीय खानी प्रस्तुत करने एवं दिनांक col विहित परीक्षा में उत्तीर्ण होने यस एतद्वास केंसल ओपेनकास्ट खाने तक समित मेंट संश्वमता प्रमाण-पत्र प्रदान किया जाता है।

अचल साचव

खनन परीक्षा बोर्ड

दक्षिणी अचल, बेयलूर

Zonal Secretary

son of BASKAR K Shri MURALI KRISHNAN K.B. ofst MARCH, 1988 (EIGHTY EIGHT) having given satisfactory evidence of his age, born on medical fitness, good character, literacy and prescribed experience of working in metalliferous mines and having passed the prescribed examination held at MVTC. SANDUR is herby granted MINING MATE'S CERTIFICATE OF centre on 19.03.2015

बाएं हाथ के Left hand thumb impression

अंचल सचिव खनन परीक्षा बोर्ड Zonal Secretary Board of Mining Board of Mining Examination Southern Zone, Bengaluru Examinations

Signed and Sealed Date 10/07/2015 .1. ...

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CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON TO PREPARE MINING PLANS (Under Rule 22 C of Mineral Concession Rules 1960)

Shri R. Gururamachandran resident of G-2, Sree Apartments, 4, 29th Cross, Avvai Nagar, Lawspet, Puducherry – 605 008, son of Shri K. Rengasamy having given satisfactory evidence of his qualifications and experience is hereby granted recognition under Rule 22C of the Mineral Concession Rules, 1960 as a Qualified Person to prepare Mining Plans.

His registration number is

RQP/MAS/224/2010/A

recognition is valid for a period of ten years ending 24/11/2020.

Regional Controller of Mines Indian Bureau of Mines Chennai Region

R. GURURAMACHANDRAN. M.Sc., Qualified Person (RQP/MAS/224/2010/A)

Place : Chennai Date : 25.11.2010

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7 MAY 2022 KUGU & 85 MITEL 841120 The Senate of the Statistic of St hereby makes known that R. Gururamachandran has been admitted to the Degree of Master of Science, he having been certified by duly appointed Examiners to be qualified to receive the same, and having been by them placed in the First Class, at the Examination held in the month of April 1986 in Branch VII- A. Spplied Geology Given under the seal of the University.

Sennie Hense, September 20, 1986

Registrar.

B.E. M Sc. Ph D (Florida, M.A.S.C.E., F.I.E. (I) Vice - Chancellos

R. GURURAMACHANDRAN. M.Sc., Qualified Person (RQP/MAS/224/2010/A)

5.6000033



The Syndicate of the Anna University hereby makes kuntun that

R. GURURAMACHANDRAN

has been admitted to the Degree of Bachelor of Science in Applied Geology, he having satisfactorily completed the prescribed course of study at the College of Engineering, and having been certified by duly appointed Axaminers to be qualified receive the same and having been placed by them in the to FIRST APRIL. min the year 1983.



Iniversity Muildings, Andras - 600 025 26 FEB 1984 Bated ...



UCKL

Nice-Chancellor

MACHANDRAN. M.Sc. R. GURUR Qualified Person (RQP/MAS/224/2010//

S Lonfoigg

M.M. Detergents Company (P) Ltd

No.1, Race Course Road, Nagalakshmi Theatre Complex, Dindigue Banings Phone : 0451 - 2422286 Fax 0451 - 2410122

MMD/DGL/2010-11

23rd June 2010.

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CERTIFICATE

This is to certify that Mr. R.Gururamachandran M.Sc., working at our Nadumandalam Mines, Natham taluk, Dindigul district as Manager - Geology & Exploration since June 2008. He is also responsible for development of new mines for Lime Stone, Calcite and Dolomite at various districts.

For M.M.Detergent Company (P) Ltd,

(M.SUGUMAR) AGENT

R. GURUR/ MACHANDRAN. M.Sc Qualified Person (RQP/MAS/224/2010/A)

SECTIONSE

VEMBANUR SILICA SAND MINES

Office : O/ 60, Cheran Street, Paari Nagar, CHENNAI 600083. Mines at Vembanur village, Cheyyur taluk, Kancheepuram district.

01-05-2006

EXPERIECNE CERIFICATE

Name and Address	1	R.GURURAMACHANDRAN M.Sc. 5, 23 rd Cross, Avvai Nagar, Lawspet, PONDICHERRY 605 008.
Position	8	Geologist cum Manger
Date of Joining	:	02-12-2002
Date of Leaving	:	30-04-2006
Conduct	3	Good.

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(ROPIMAS/224/2010/A)	. R. GURUA JACHANDRAN. M.Sc., Qualified Person	KEY PLAN (SCALE:-1:50.000) PREPARED BY:-	CONVENTIONAL SYMBOLS	S KM RADIUS	LATITUDE :-09 26'11.60"TO 09 26'19.15" LONGITUDE :-77 58'45.20" TO 77 58'56.07"	TOPO SHEET NO:-58 G/15 & 58 K/3	VIRUDHUNAGAR DISTRICT. LOCATION OF THE APPLIED AREA:- EXTENT :4.24.0 HECTERS VILLAGE :KOTTAIYUR TALUK :VIRUDHUNAGAR DISTRICT :VIRUDHUNAGAR	NAME OF THE APPLICANT:- S.MARIMUTHU,S/o.SUNDARAM, No.4/117, MELATHERU, KADANERI VILLAGE, A.THULUKKAPATTI Post-626149, WATHRAYIRUPPU TALUK,	PLATE - II	W R HAT MAY LL	
	2									*	

S.Nos. 10/12 11/2A 11/2C 11/2C 11/2C 11/2F 11/2F 11/2F 11/2H(p) 11/2I(p) 112J2B 15/2B1 TOTAL AREA DETAILS 0.52.0 0.23.0 0.62.25 (0.70.0) 0.45.0 (0.52.0) 0.46.25(0.53.0) 0.24.5 & 0.37.0 0.27.0 Hc. 0.24.5 0.24.5 4.24.0 Hc. 0.58.0 Hc. EXTENT

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PILLAR	LATTITUDE	LONG
H	9"26" 18.60" N	2° 77
2	9"26' 15.15" N	5. 44
ω	9°26' 15.20" N	77 .5
4	9"26' 14.20" N	3. 44
S	9"26' 12.80" N	. 11
6	9"26' 12.30" N	77.
7	9"26' 11.95" N	77.
8	9"26' 13.30" N	77
9	9"26' 13,35" N	77
10	9"26' 14.45" N	77
=	9°26' 14.35" N	77
12	9"26' 13.65" N	77
13	9"26' 13.56" N	77
14	9°26' 11.76" N	77
5	9°26' 11.60" N	77
16	9°26' 11.70" N	77
17	9"26' 14.65" N	77
18	9"26' 14.50" N	77
19	9"26' 16.03" N	77
20	9"26' 16.20" N	77
21	9°26' 17.60" N	77
22	9'26' 17.85" N	77
23	9'26' 18.80" N	77
24	9"26' 19.15" N	77
25	9°26′ 19.07* N	77
26	9°26' 18.50" N	77
27	9°26' 18,45" N	77



ROP/MAS/224/2010/A)	MINE LEASE PLAN SCALE: - 1: 2000 ALL PLANS AND SECTIONS ARE PREPARED BASED ON LEASE MAP AUTHENTICATED BY GOVERNMEN R. GURURAM CHANDRAN, M.Sc.,	NAME OF THE APPLICANT:- S.MARIMUTHU S/o.SUINDARAM, No.4/117, MELATHERU, KADANERI VILLAGE, A.THULUKKAPATTI Post-626149, WATHRAYIRUPPU TALUK, VIRUDHUNAGAR DISTRICT. LOCATION OF THE APPLIED AREA: EXTENT :4.24.0 HECTERS VILLAGE :KOTTAIYUR TALUK :VIRUDHUNAGAR DISTRICT :VIRUDHUNAGAR DISTRICT :VIRUDHUNAGAR INDEX:- LEASE HOLD BOUNDARY BOUNDARY PILLARS SAFETY LINE	PLATE - III	A DATE OF THE STATE OF THE STAT
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URADIACHANDRAN Qualified Person	NDEX:- BOUNDARY BOUNDARY HON ATION VA	PPLICANT:- /o.SUNDARAM, /hERU,KADANERI TI Post-626149, J TALUK, DISTRICT.	CTION SCHEDUL COMMONNER TO SOLUTION COMMONNER TO SOLUTION COMMONN
L. M.Sc.	DON THE	I VILLAGE,	TURNER OF THE PARTY OF THE PART



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(RQP/MAS/224/2010/A)



	S.MAR S/o.SU No.4/1 KADAN A.THUI WATHI VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD VIRUD SAFE TOP S CHOR WATE WATE	MINE MINE
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S/224/2010//	ACHANDRAN	BRVES Envice
	D AREA:	



R. GURURAMACTIVA	ENVIRONMEN SCALE -1: ALL PLANS AND SECTIONS AND ON LEASE MAP AUTHENTICAT	WIND DIRECTION	APPLIED AREA SAFETY LINE 500 M RADIUS	NAME OF THE APPLICA S.MARIMUTHU S/o.SUNDARAM, No.4/117, MELATHERU, KADANERI VILLAGE, A.THULUKKAPATTI Post- WATHRAYIRUPPU TALUK VIRUDHUNAGAR DISTRI LOCATION OF THE A EXTENT :4.24.0 HEC VILLAGE :KOTTAIVUI TALUK :VIRUDHUN, DISTRICT :VIRUDHUN, INDEX:	PLAT
VLJFRAN. M.Sc., rison ' 12010/A)	VTAL PLAN 5000 RE PREPARED BASED ED BY GOVERNMENT			NT:- 626149, CT. PPLIED AREA:- TERS AGAR AGAR	12 T MAY



IE APPLICANT:- U,S/o.SUNDARAM, ELATHERU, LLAGE, PATTI Post-626149, IPPU TALUK, SAR DISTRICT. IF THE APPLIED AREA RUDHUNAGAR RUDHUNAGA	T. NW L L MAN .
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R. GURURAMULTIANDITAN, M.Sc. Qualified Person (ROPIMAS/224/2010/A)	VIRONMENTAL AND ND USE PLAN SCALE 1:10,000 ID SECTIONS ARE PREPARED BASED ON THE JTHENTICATED BY STATE GOVERNMENT	AL CULTIVATION	DISTANCE	IRECTION	JAL STREAM	E ROAD ====	E BOUNDARY	CO CO	(RADIUS)	LEASE APPLIED AREA	REFERENCE	PLATE VII/B THE APPLICANT: THU, S/o. SUNDARA MELATHERU, VILLAGE, VILLAGE, KAPATTI Post-626149, RUPPU TALUK, AGAR DISTRICT. 2 7 WV VIRUPPU TALUK, AGAR DISTRICT. 2 9 WV VIRUPU TALUK, AGAR DISTRICT. 2 9 WV VIRUDHUNAGAR 2 9 WV VIRUDHUNAGAR 2 9 WV	
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			W E S A' TBM P4M		NAME OF THE APPLICANT:- S.MARIMUTHU,S/o.SUNDARAM, No.4/117, MELATHERU, KADANERI VILLAGE, A.THULUKKAPATTI Post-626149, WATHRAYIRUPPU TALUK, VIRUDHUNAGAR DISTRICT///////////////////////////////////
MINE CLOSURE PLAN WITH LAND USE PATTERN	AFFORESTATI	ON DRO	GRAME FOR FIVE YEAR	DC	DDOGDESSTVE MINE
FUTURE MINING = 2.11.5 Ha	YFAR	NO OF	TYPE OF TREES	10	CLOSURE PLAN
STORAGE OF TOP SOLI = 0.00.0 Ha	I-YEAR	150	NEEM TREES	Н	SCALE :-1:2000
STOCKING & MINERAL DRESSING YARD = 0.00.0 Ha	II-YEAR	150	PUNGALTREES		LEASE MAP AUTHENTICATED BY STATE GOVERNMENT
MINE ROAD = 0.03.0 Ha	TILVEAR	150	TAMARIND TREES	A	1.1.
AFFORESTATION&SAFETY = 0.86.3 Ha	IVVEAD	150	SAVINVII TREES	1	1 July Well
UNDISTURBED AREA = 0.00.0 Ha	IV VEAD	150	MEEM TREES	T	HN4.
TOTAI = 4.240 Ha	V-YEAK	150	NEEM IKEES	Λ	D OUDUDALAADUAADOAA
ANNEXURE-VII VAO CERTIFICATE



மேற்கண்ட புகைப்படம், விருதுநகர் மாவட்ட துனை இயக்குனர், கனிமம் மற்றும் சுரங்கத்துறை அவர்களின் கடிதம் ந.க. எண்: கேவி1/519/2020-நாள்: 25.02.2021–ன் படி, விருதுநகர் வட்டம், கோட்டையூர் கனிமம் கிராமம் புல எண்கள் 10/12, 11/2A,2C,2D,2E,2F,2G(P),2H(P),2I(P),2J2B மற்றும் 15/2B1 மொத்த பரப்பளவு 4.24.0 ஹெக்டேர் உள்ள இடத்திற்கு வத்திராயிருப்பு வட்டம், விருதுநகர் மாவட்டம், காடனேரி கிராமம், <u>அ துலுக்கப்பட்டி</u> **அஞ்சல்**-626149 மேலத் தெரு **डाळंग**.4/117 கதவு இல்லத்தில் வசிக்கும் திரு. சு.மாரிமுத்து த/பெ. திரு.சுந்தரம் அவர்களுக்கு 5-வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவாரி செய்ய அங்கீகரிக்கப்பட்ட இடம் என்பதை இதன் மூலம் சான்றளிக்கிறேன்.

மேற்படி இடத்திற்கு 500மீ சுற்றளவில் புராதனக்கோவில், பள்ளிக்கூடம் மற்றும்; புரதானச்சின்னங்கள் ஏதும் இல்லை என்றும் மேற்படி இடத்திற்கு செல்வதற்கு சாலை வசதி உள்ளது என்றும் சான்றளிக்கிறேன்.

கிராம நிர்வாக இலுவலா மன்னார்கோட்டை கிராமல விருதுதகர் வட்டம் FIC Banion us

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ANNEXURE-VIII BLASTING AGREEMENT

prop.K.Baskar, 25, New Road, Kovilpatti, Tuticorin PIN District-THOOTHUKKAUDI, State-Tamil Nadu, Pincode-2. अन्जप्तिधारी की प्रास्थिति / Status of licensee : Individual 3. सड़क वैन की विशिष्टियाँ / Particulars of the road van: पंजीकरण संख्या / Registration No. यान का मेक एवं मॉडल / Make and model of vehicle SC XL लदान रहित वजन / Unladen weight अन्य फिटिंग्स का विवरण / Description of Other Fittings वाहन के लिए अन्मत्य विस्फोटकों की मात्र / Quantity of Explosives permitted to carry 4. अनुजप्त परिसर निम्नलिखित आरेखण (आरेखणों) के अनुरूप होना चाहिए / The licensed आरेखण संख्या / Drawing No : E/SC/TN/25/869(E80370) दिनांक / dated : 03/07/2014 5. समय समय पर यथा संशोधित विस्फोटक अधिनियम, 1884 और उसके अधीन बनाए गए 5.000033 427

अन्जप्ति संख्या / Licence No. : E/SC/TN/25/869(E80370) वार्षिक फीस रूपए / Annual Fee Rs : 2500/-

Endorsed under Rule 107(3) of Explosives Rules,2008 ri Dr. P. K. Rana, Controller of Explosives, Chennai on 03/07/2014

 अन्जप्ति एतदद्वारा जारी की जाती है M/s Mangala Sundari Explosives (Occupier : K Baskar) Licence is hereby granted to :

अनुराप्ति प्ररूप एलई -7| LICENCE FORM LE-7 (विस्फोटक नियम 2008 की अनुसूची 4 के झाग 1 का अनुच्छेद 7 देखें) (See article no 7 of Part 1 of Schedule IV of Explosives Rules, 2008)

Licence to : transport explosives in a road van

अनुज्ञप्तिः सडक वैन में विस्कोटकों के परिवहन के लिए माने

628501,

628501

लदान सहित अधिकतम व्यान / Maximum laden weight परिवहन के लिए अन्जेय विस्तादको के अगवनतम मात्रा Maximum quantity of explosives permitted for transport इंजिन संख्या / Engine No. चैसिस संख्या / Chassis No.

TN-69/AS-0910 MAHINDRA AND MAHINDRA/BOLERO 1510 Kg(s) 2470 Kg(s)

960 Kg(s)

GHD1F40515 MA1ZN2GHKD1F49502 Spark arrestor, Fire Extinguisher etc

27-Mar-1

960 Kg(s)

- premises shall conform to the following drawing(s):
- विस्फोटक नियम, 2008 के उपबन्धों और शतौं एवं निम्नलिखित अनुलग्नकों के अधीन अनुज़प्ति प्रदान की जाती है।

The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed thereunder and the conditions and the following annexures....

(क) उपर्युक्त क्रम संख्या 4 में यथाकथित सड़क वैन का आरेखण / (a) Drawings of the road van an stated in serial no.4 above.

(ख) अनुजापन प्राधिकारी द्वारा हस्ताक्षरित शर्ते / (b) Conditions signed by the licensing authority.

6. यह अनुज़प्ति तारीख 31 मार्च 2018 तक विधिमान्य रहेगी / This licence shall remain valid till 31st day of March 2018

यह अनुजण्ति, अधिनियम या उसके अधीन विरचित नियमों या इस अनुजण्ति की शर्तों के उल्लंधन, अनुस्ची 5 के माग 4 में सन्दर्मित, जहाँ भी लागू हो, या यदि अनुजण्त परिसर आरेखण या उससे संलग्न उपाबदों में दर्शाए गए विवरण के अनुरूप नहीं पाए जाने पर निलम्बित या प्रतिसंहत की जा सकती है।

This licence is liable to be suspended or revoked for any violation of the Act or rules framed there under or the conditions of this licence as set forth under, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and annexure attached hereto.

दिनांक / Date: 03/07/2014

संयुक्त मुख्य विस्फोटक नियंत्रक Joint Chief Controller of Explosives दरिणांचल, चेन्ने South Circle, Chennai मन्त्रप्ति के नवीनीकरण हेत् पृष्ठांकन / Endorsement for renewal of licence:					
नवीनीकरण की तिथि Date of Renewal	वैधता समाप्ति की तिथि Date of Bapity	अनुजापन प्राधिकारी के हस्ताक्षर Signature officensing authority			
27/03/2018	31/03/2023	Jt. Chief Controller of Replosives, South Circle, Chennai			

वैधानिक चेतावनी : विस्फोटकों का सापरवाही से प्रयोग या दुरूपयोग, विधि के अधीन गम्झीर दाण्डिक अपराध होगा । Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

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अनुसारी प्ररूप एलई - 7 | LICENCE FORM LE-7 (विस्फोटक नियम 2008 की अनुसूची 4 के भाग 1 का अनुच्छेद 7 देखें) (See article no 7 of Part 1 of Schedule IV of Explosives Rules, 2008)

अनुजसि : सडक वैन में विस्फोटकों के परिवहन के लिए Licence to : transport explosives in a road van

'जुरुसि संख्या / Licence No. : E/SC/TN/25/350(E38140) वाचिक फीस रूपए / Annual Fee Rs : 2500/-

1. এলুবারি দেবেরেয়ে জারী কী জার্রী ট্ Licence is hereby granted to : Sri Mangalasundari Explosives (Occupier : K. BASKAR) 191,Ledalai Kara Street, Kovilpatti, District-THOOTHUKKUDI, State-Tamil Nada, Placode 628501

- 2. अनुजसिधारी की प्रस्थिति / Status of licensee : Individual
- 3. सड़क चैन की विशिष्टियाँ / Particulars of the road van:

वजीकरण संख्या / Registration No.

यान का मेक एवं मॉडल / Make and model of vehicle लदान रहित वजन / Unladen weight लदान सहित अधिकतम वजन / Maximum laden weight परिवहन के लिए अनुरोय विस्फोटकों की अधिकतम माज Maximum quantity of explosives permitted for transport इंजिन संख्या / Engine No.

चेंसिस संख्या / Chassis No. अन्य फिटिंग्स का विवरण / Desription of other Fittings

वास्त के लिए अनुमत्य विस्फोटकों की माना / Quantity of Explosives permitted to comy

TN.69.W.5751 Mahindra Mahindra 1810 Kg(s) 2750 Kg(s) 940 Kg(s) MARIC-2A-BA21F-17384

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AB.21.F.32466 As mentioned above' 940 Kg(s)

4. अनुशत परिसर जिन्ललिखित आरेखण (आरेखलों) के अनुरूप होना चाहिए / The licensed premiers hall conform to the following drawing(s): आरेखण संख्या / Drawing No : E/SC/TN/25/350(1981)) किन्नां / data / Drawing ()

5. समय समय पर यथा संशोधित विस्पनेटक अधिनियान, 1984 और उसके अधीन बनाए मेंए वस्ताटक नियम, 2008 के उपबन्धों और धरों एवं निम्नलिखित अनुलग्लकों के अधीन अनुलीरी प्रदान की जाती म The licence is granted subject to the provision of Endomes Apr 1884 as amended from time to time and the Explosives Rules, 2008 framed thereunder a the conditions and the following annexures. (क) उपर्युत्त क्रम संख्या 4 में यथाकथित सहक (ख) अनुलापन प्राधिकपी द्वारा हस्लाम्नरित शर्त के Conditions signed by the licensing and the Section of A showe.

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6. यह अन्जरि तारीख 31 मार्च 2004 तक विधिमाल्य रहे

Elst day of March 2004

• यह अनुजति. अधिनियम या उसके अधीन विरचित नियमां या इस अनुजति की शतों के उल्लंघन, अनुस्वी 5 के आज 4 में सन्दर्भित, जहाँ मी लागू हो, या

दे अनुरास परिसर आरेक्षण या उससे संलग्न उपाबढ़ों में दर्शाए गए विवरण के अनुरूप नहीं पाए जाने पर निलम्बित या प्रतिसंहत की जा सकती है । This licence is liable to be suspended or revoked for any violation of the Act or rules framed there under or the conditions of this licence as set forth under erever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and annexure attached hereto.

ोदनीक / Date: 04/09/2002

संयुक्त मुख्य विस्थोटक विश्वमक | Joint Chief Controller of Explusion दकिष्यांगय, भेग्ये | Seath Circle, Ches

अन्तरि के तदीवीकरण हेत् पूर्वकन / Endorsement for resoval of licence:

नवीनीकरण की तिसि	वैधता समासि की लिथि	अन्तुनापन प्राधिकारी के प्रस्थापर		
Date of Renewal	Date of Expiry	Signature of licensing authority		
28/03/2019	31/03/2024	Jt. Chief Controller of Explosives, South Circle, Chennai	5	

वैधानिक चेतावनी : विस्फोटकों का सापरवाही से प्रयोग वा तुल्पावीय, विधि के अपील अभ्योर दाण्डिक उत्पत्तम होया । Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

S. LOALEBY

and / Conditions

यह अनुनसि किसी अन्य सड़क बैन को अंतरणीय नहीं है। 1. This licence is not transferable to any other explosives van.

यान, उसकी बोडी-और अन्य किटिंग्स में कोई भी परिवर्तन, अनुसापन प्राधिकारी के अनुमोदन के बिना नहीं किया जाना चाहिए। No alterations should be made to the vehicle, its body and other fittings without approval from the licensing authority.

यह अनुद्रमि-या इसकी अभिग्रमाणित प्रति सदैव वैन में रखी जाएगी एवं निरीक्षण अधिकारी के मांगे जाने पर उसे प्रस्तुत किया आएगा।

- 3.
- This feetbe or its autoenticated copy shall at all times be kept in the van and produced on demand by an inspecting officer. सड़क यान का, विस्कोटकों के परिवर्तन के लिए तब तक प्रयोग नहीं किया जाएगा जब तक कि वह ठीक हालत में नहीं है और विस्फोटक लियम 2008 का अनुपालन नही सडव
- करती है। The road visitishall not be used for transport of explosives unless it is in a fit condition and complies with the Explosives Rules, 2008. The road visitishall not be used for transport of explosives unless it is in a fit condition and complies with the Explosives Rules, 2008. होईक यानदेखी प्रयोग, के इस अनुवारी दारा प्राधिकृत सामनी से मिल्ल किसी सामग्री के लिए तक तब लॉर्स किया जाएगा जब तक कि अनुजापन प्राधिकारी दारा इसकी Related an aball for the used for transport of any material other than that authorised by this licence, unless permitted by licensing authority in writing.
- सड़क यान में धूमधान नहीं किया जाएगा न उसमें अस्ति या कृंत्रिम प्रकाश या कोई ऐसे बस्तु जिससे आग लग सकती हो की अनुमति दी जाएगी।
- 6. No smoking and no fire or artificial light or any article capable of causing fire shall be allowed on the explosives van. यान का प्रयोग यात्रियों के बहन के लिए नहीं किया जाएगा।
- 7.
- The vehicle shall not be used for carrying passenger.

उस समय सड़क यान ऐसे किसी सडम व्यक्ति के प्रभार में होगी जिने जिस समय सड़क बान पर विस्फोटकों की लटाई या उतराई या परिवहन किया जा रहा हो. 8. परिचित है। जहाँ यान अनुजसिधारी द्वारा न चलाया जा रहा हो वहाँ एक ऐसा दस्तावेज. जिस पर यिस्फोटकों की धरा-उठाई करने का अनुसव है और उनसे पूर्णत: अनुअसिधारी के हस्तावर हो और उन व्यक्तियों का नाम दर्ज हो जिन्हें यान को चलाने के लिए प्राधिकृत किया गया हो, यैन के साथ ले जाया जाएगा और किसी निरीक्षण

Road van, while explosives are being loaded or unloaded or transported shall always be under the charge of competent person who shall be experienced in handling of explosives and fully conversant there under. Where the vehicle is not driven by the licence holder, a document signed by the licensee naming persons authorised to drive an accompany the vehicle shall be carried in the van and produced on demand to an inspecting officer. अधिकारी द्वारा मांग की जाने पर उसे पेश किया जाएगा।

- 9. सड़क यान में किसी भी विस्फोटक का परिवहन तब तक नहीं किया जाएगा जब तक कि वे विस्फोटक नियमों के अनुसार या मुख्य विस्फोटक निबंत्रक द्वारा विनिर्दिष्ट रीहि
- No explosives unless they are packed in accordance with the Explosives Rules or in a manner specified by the Chief Controller shall be transported in the explosives van farefi area fareficent at the explosive ran farefi area fareficent at the explosive ran fareficent at the explosive r
- 10 Detonators shall not be transported with any other explosives.

11. यदि सड़क यान में कोई टूट फूट हो जाती है या उसमें आग लग जाती है या बिस्फोट हो जाता है अथवा सड़क यान इनमें किसी से अंतर्गस्त हो जाती है तो ऐसी टूट फूट दुर्घटना, अग्नि या विस्फोट की पूरी रिपोर्ट के साथ इस तथ्य की जानकारी अनुजापन प्राधिकारी को तुरन्त दी जाएगी । यदि ऐसी दुर्घटना, अग्नि या विस्फोट में किसी

व्यकि की मृत्यु हो जाती है या किसी व्यक्ति या सम्पति को मजभीर हाति पहुँचती है तो उसकी रिपोर्ट निकटतम पुलिस स्टेशन को तुरन्त की जाएगी। Any breakdown, accident, fire or explosion occurring in or involving the road van, shall be immediately reported to the licensing authority together with a full report of such breakdown, accident, fire or explosion. If such accident, fire or explosion is attended with loss of human life or serious injury to person or property, a report shall also be made immediately to the nearest Police Station. 2

12. विस्फोटकों को यान में परेषक के अनुसंस परिसर में ही लादा जाएगा और परेषिती के अनुसंस परिसर पर ही यान से उतारा जाएगा।

- The explosives shall be loaded into the van only at the licensed premises of consignor and unloaded from the van at the licensed premises of the consignce
- 13. अनुनसिधारी, परिवहन किए जाने वाले विस्फोटकों का लेखाओखा प्ररूप आरई-6 में रखेगा और निरीक्षण अधिकारी द्वारा मांगे जाने पर प्रस्तुत करेगा।

The licensee shall maintain account of explosives transported in Form RE-6 and present the same on domand by an inspecting officer. अनुनसिपारी और कर्मचारी परिसर के मौतर आपात के दौरान की जाने वाली प्रक्रिया से अवगत सौंगे i

- 14.
- The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises. 15. विली निरीक्षण करने या मजूना लेने वाले अधिकारी को सभी युक्तियुक्त समय पर अनुरास परिसर में अवाध पहुँच प्रदान की जाएगी और यह अभिनिधित करने के लिए कि अधिनियम और इन नियनों के उपबन्धों तथा सुरक्षा सम्पन्धी चतौं का सम्यक् रूप से पालन किया जाता है, उस अधिकारी को प्रत्येक सुविधा उपलब्ध कराई जाएगी Free access shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act or these rules and these conditions are duly observed.

16. यदि अनुजापन प्राधिकारी या विस्फोटक नियंत्रक, लिखित में अनुम्नशिधारक को ऐसी संस्तुतियों को क्रियान्चित करने के लिए, जो ऐसे प्राधिकारी की राय में अमान्य जोयिए उत्पन्न कर सकता है और स्थल पर या स्थल से बाहर व्यक्तियों की सुरक्षा के लिए आवश्यक है, सूचित करता है तो अनुजसिधारी उन संस्तुतियों को निष्पादित करेगा अ

If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to carry cal recommendations, which are in the opmion of such autooral may pose unacceptable risk and so necessary for the safety of either on-site or off-site persons, the holder of the license shall execute the recommendations and soperation of such authority. ऐसे पाधिकारी द्वारा विनिदिंह अवधि के जीतर अनुपालन की रिपोर्ट देगा।

17. अग्नि या विस्फोटक के कारण रोने वासी दुर्घटना और विस्फोटकों की हानि, कमी वा चोरी के बसे मैं निकटतम पुसिस स्टेशन और अनुजापन प्राधिकारी तथा अनुजाप पार्धिकारी के स्थानीय कार्याखय को तुरन्त रिपोर्ट की जाएगी। Accidents by fire or explosion and losses, shorage or then of explosives shall be immediately reported to the nearest police station and the ticensing authority are loc.

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Right Now Realizes Fring ; Joint Chief Controller of Express. टलिणाचल, चेन्ने (South Circle, Chennas

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Form-18

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Form DE-2

(See rule 113 of the Explosives Rules, 2008) (Distance Form to be attached to the licence)

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/TN/22/33(E10121) in form LE-3 granted to M/s.MANGALA SUNDARI EXPLOSIVES, 105/2.Mudukalankulam road. Sivanthipatti village ,Vijayapuri post, Tamil Nadu- .

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http://10.0.1.11/IntExp/Form18.asp?LetterGeneratedYN=Y

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ANNEXURE-IX NABET CERTIFICATE





National Accreditation Board for Education and Training



Certificate of Accreditation

Eco Tech Labs Pvt Ltd.,

48, 2nd Main Road, Ram Nagar South Extension, Pallikaranai, Chennai- 600100, T.N.

The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3: for preparing EIA-EMP reports in the following Sectors –

S.	Sector Description		Sector (as per)	
No			MoEFCC	Cat.
1	Mining of minerals - including Open cast only	1	1 (a) (i)	В
2	Thermal power plants	4	1(d)	А
3	Coal washeries	6	2 (a)	В
4	Metallurgical industries - Ferrous only	8	3 (a)	В
5	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	21	5 (f)	A
6	Airports	29	7 (a)	А
7	Industrial estates/ parks/ complexes/areas, export processing Zones (EPZs), Special Economic Zones (SEZs), Biotech Parks, Leather Complexes	31	7 (c)	А
8	Building and construction projects	38	8 (a)	В
9	Townships and Area development projects	39	8 (b)	В

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in SAAC minutes dated Apr. 20, 2021 and supplementary minutes dated Oct.19, 2021 posted on QCI-NABET website

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/22/2217 dated Jan. 19, 2022. The accreditation needs to be renewed before the expiry date by Eco Tech Labs Pvt. Ltd., Chennai following due process of assessment.





Sr. Director, NABET Dated: Jan. 19, 2022 Certificate No. NABET/EIA/2124/SA 0147 Valid up to Sep. 15, 2023

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.