# Executive Summary For Public Hearing

Thiru. P. Ramachandran Multi Colour Granite
Quarry
2.84.5 Ha

At

S.F.No. 407/1, 407/2, 407/3 (P), 407/4, 408/3, 408/4 (P) of K.Pitchampatti Village, Karur taluk, Karur District

Sector No. 1(a) (Sector No. 1 as per NABET)
Category of the Project: B1 (Cluster Mining)

# **Project Proponent:**

P. Ramachandran
S/O Paramasivam,
12, Bharathiyar 5th street,
SS Colony Ward- 18,
Madurai District - 625 016

# **Prepared By:**

M/s Ecotech Labs Pvt. Ltd. 
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**JULY 2023** 

#### **EXECUTIVE SUMMARY**

#### 1. Project Background:

Proposed proposal pertains to Multi Colour Granite mining project by open cast semi mechanized method on allotted mine lease area at K.Pitchampatti Village, Karur taluk of Karur District, Tamil Nadu. It is a Plain terrain.

Proposed quarry was existing quarry and lease was granted in favour of P. Ramachandran, the Lessee had obtained lease for quarrying granite vide Government Order.(3D) No. 37, Industries (MMB.2) Department dated 19.07.2016 for a period of twenty years and the lease deed was executed on 05.08.2016 and the lease will expire on 04.08.2036.

The Proposed Multi Colour Granite Quarry over an extent of 2.84.50 Ha at S.F.No. 407/1, 407/2, 407/3 (P), 407/4, 408/3, 408/4 (P) of K.Pitchampatti Village, Karur taluk, Karur District, Tamilnadu. Based on the 500m radius letter obtained from geology of mining, Karur vide letter no Rc.No.248/Mines/2021 dated 27.10.2022 proposal coming under Cluster of mine exceeding more than 5 Ha and the total cluster area is 9.52 Ha. We have submitted our fresh application for ToR to SEIAA vide Proposal No: SIA/TN/MIN/408532/2022 on 29.11.2022.

The category of the project is B1 (cluster), the lease area exhibits Plain terrain and sloping towards south-west side covered with Multi Colour Granite. The quarry operation is proposed to carry out with conventional open cast semi mechanized mining with 5.0-meter vertical bench with a bench width of 5.0 meter. In addition to the above the Quarry operation involves Diamond wire saw cutting, loading and transportation.

The quarry operation is proposed up to depth for 25 m (1.0 m Top Soil + 4 m Weathered granite + 20 m Multi colour Granite) below ground level. The total Geological Reserves is 98680 m<sup>3</sup> and Mineable Reserves is 49220 m<sup>3</sup>. The Geological reserve in ROM is about 98680 m<sup>3</sup>. Geological reserve at 35% reserves is about 34538m<sup>3</sup>. The Mineable Reserves in ROM is about 49,220 m<sup>3</sup>. Mineable reserve at 35% reserves is about 17228 m<sup>3</sup> and Proposed Yearwise production is carried

out as 7559 m<sup>3</sup> at 35 % reserves to be mined for (Sixty months) Five years only.

The Mining Plan was approved by Director of Geology and Mining, Guindy, Chennai-32 vide letter No. 503/MM2/2016 dated 06.02.2016. The lessee has obtained Environmental clearance from SEIAA-TN vide letter no. Lr.No.SEIAA-TN/F.No.5073/1(a)/EC.No.3293/2016 dated 11.07.2016.

The 1st scheme of mining for the period from 05.08.2021-04.08.2022 to 05.08.2025-04.08.2026 is now being prepared and submitted under rule 18(2) of GCDR 1999 for approval on 29.03.2021.

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.

#### 2. Nature & Size of the Project

The proposed Multi Colour Granite Quarry over an extent of 2.84.50 Hectares land is located at K.Pitchampatti Village of Karur taluk, Karur District.

Mineral intends to quarry : Multi Colour Granite

District : Karur
Taluk : Karur

Village : K.Pitchampatti

S. F. Nos. : 407/1, 407/2, 407/3 (P), 407/4, 408/3, 408/4 (P)

Extent : 2.84.50 Hectares

**Table 1: Brief Description of the Project** 

S. No.	Particulars	Details
1	Latitude	10°46'54.76"N to 10°46'47.80"N
2	Longitude	78°04'07.23"E to 78°04'15.25"E
3	Site Elevation above MSL	206 m from MSL
4	Topography	Plain terrain
5	Land use of the site	Patta land
6	Extent of lease area	2.84.50 На
7	Nearest highway/Road	<ul> <li>SH74 - Dindugal- Karur Road6.3 km, E</li> <li>NH 44 - Karur Main Road - 12.6km, NW</li> </ul>
8	Nearest railway station	Palaiyam Railway Station – 9.3 km, SE

9	Nearest airport	Tiruchirapalli International Airport – 68.8km, E			
		Town - K.Pitchampatti-2.3 km -NE			
10	Nearest town / city	City - Karur–11.8Km -NE			
		District - Karur–11.8 Km -NE			
		Amaravathi river- 9 km, W			
11	Rivers / Canal	Kudaganar River- 8.8 km, NW			
		Kudaganar Check Dam- 10.4 km, W			
		Kandedutha Manickam Lake- 3.1 km, SW			
		• Edayapatti Lake- 5.7 km, SW			
		<ul> <li>Vellaiyanai Kulam- 7.5 km- NE</li> </ul>			
12	Lake	• Poove Kulam – 11.7 km, E			
		Alamarathupatti Kanmai- 0.6 km- N			
		<ul> <li>Pitchampatti Kanmai- 0.9 km, N</li> </ul>			
		Seasonal Odai- 40 m, E			
		• Vellariyan Kulam- 8.2 km, N			
13	Hills / valleys	Nil in 15 km radius			
14	Archaeologically places	Nil in 15 km radius			
15	National parks / Wildlife	Kadavur Slender Loris Sanctuary- 14.8 km, S			
15	Sanctuaries				
16	Reserved / Protected				
10	Forests	Nil in 15 km radius			
17	Cojemicity	Proposed Lease area come under Seismic zone-II			
1/	Seismicity	(low risk area)			
18					

# 3. Need for the Project

The demand for granite increased due to rapid industrialization and growth in infrastructure. So the number of granite producing quarries is increasing in India. Granite is the chief material for the export industries like monuments, flooring slabs, Kitchen articles, sculptures & export. Based on the demand of Granite, the lessee intends to produce the required quantity of Multi Colour Granite for domestic market.

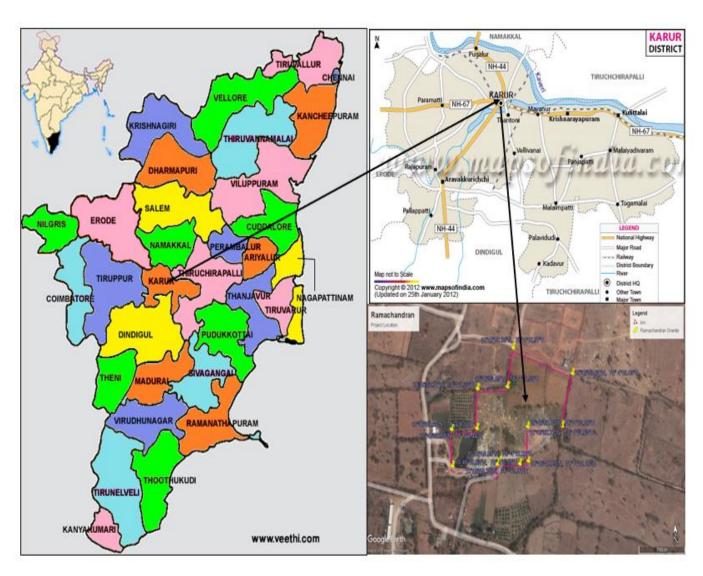


Figure 1: Location Map of the Project Site

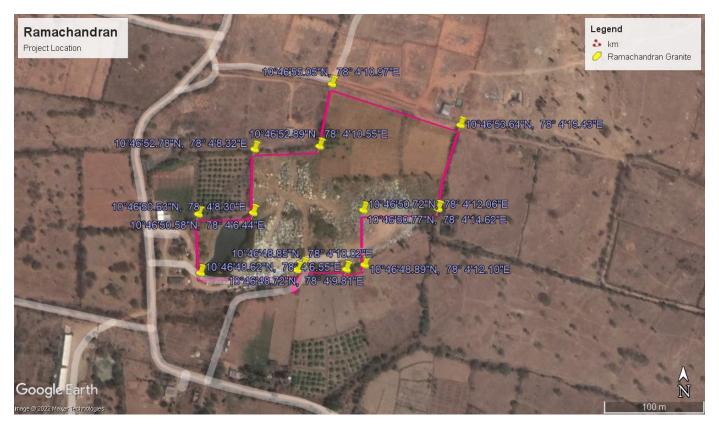


Figure 2: Google Image of the Project Site

#### 4. Multi Colour Granite

The Multi Colour Granite and granite gneiss is mainly composed of medium to fine grained with feldspar and quartz are main constituents, garnet and other mafic minerals are secondary minerals. It has commercially called as 'Paradiso' which is widely used for Slabs, Tiles and Monuments after cutting and polishing.

#### 5. Geological Resources

The Geological reserve is estimated as **98680 m**<sup>3</sup>upto a depth of 25.0m (1.0m Top Soil + 4.0m Weathered Granite + 20.0m Multi Colour Granite), by area cross sectional method.

Project Name	Thiru.P.Ramachandran Multicolour Granite Quarry - 2.84.50 Ha	Final EIA Report
Project Proponent	Thiru.P.Ramachandran	
Project Location	K.Pitchampatti Village, Karur taluk, Karur District.	

Table 2. Geological resources

Section	Bench	L (m)	W (m)	D (m)	Volume in M3	Total Reserve in M3	Multi-Colour Granite Reserve @ 35%	Granite Waste @ 65%	Weathere d Granite	Top soil
	I	63	148	1						9324
	II	63	148	4					37296	
-	III	63	24	5	7560	7560	2646	4914		
XY-AB	IV	63	24	5	7560	7560	2646	4914		
	V	63	24	5	7560	7560	2646	4914		
	VI	63	24	5	7560	7560	2646	4914		
		TOT	ΓAL		30240	30240	10584	19656	37296	9324
	I	83	141	1						11703
	II	83	141	4					46812	
X1Y1-	III	83	24	5	9960	9960	3486	6474		
A111-	IV	83	24	5	9960	9960	3486	6474		
AIDI	V	83	24	5	9960	9960	3486	6474		
	VI	83	24	5	9960	9960	3486	6474		
		TOT	ΓAL		39840	39840	13944	25896	46812	11703
	I	15	42	1						630
	II	15	42	4					2520	
X1Y1-	III	26	4	5	520	520	182	338		
A2B2	IV	78	24	5	9360	9360	3276	6084		
ALDL	V	78	24	5	9360	9360	3276	6084		
	VI	78	24	5	9360	9360	3276	6084		
		TOT	ΓAL		28600	28600	10010	18590	2520	630
	GRA	AND TOTA	AL		98680	98680	34538	64142	86628	21657

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**Table 3. Mineable Resources** 

Section	Bench	L (m)	W (m)	D (m)	Volume in M3	Total Reserve in M3	Multi-Colour Granite Recoverable Reserve @ 35%	Granite Waste @ 65%	Weathere d Granite	Side Burden	Topsoil
	I	36	36	1							1296
	II	34	33	4					4488		
	III	27	10	5						1350	
XY-AB	IV	17	5	5						425	
	III	27	15	5	2025	2025	709	1316			
	IV	17	10	5	850	850	298	552			
		TOT	AL		2875	2875	1007	1868	4488	1775	1296
	I	73	73	1							5329
	II	72	71	4					20448		
	III	68	39	5						13260	
X1Y1-	IV	63	29	5						9135	
A1B1	V	58	19	5						5510	
	VI	53	9	5						2385	
	III	68	24	5	8160	8160	2856	5304			
	IV	63	24	5	7560	7560	2646	4914			

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	V	58	24	5	6960	6960	2436	4524			
	VI	53	24	5	6360	6360	2226	4134			
		TOT	AL		29040	29040	10164	18876	20448	30290	5329
	I	1	16	1							16
	II	1	15	4					60		
	III	12	22	5						1320	
	IV	64	17	5						5440	
X1Y1-	V	59	12	5						3540	
A2B2	VI	54	7	5						1890	
AZDZ	III	12	4	5	240	240	84	156			
	IV	64	24	5	7680	7680	2688	4992			
	V	59	19	5	5605	5605	1962	3643			
	VI	54	14	5	3780	3780	1323	2457			
		TOT	AL	l	17305	17305	6057	11248	60	12190	16
	GRAN	D TOTA	L		49220	49220	17228	31992	24996	44255	6641

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Table 4. Year wise Production Plan

Year	Sectio n	Bench	L (m)	W (m)	D (m)	Volume in M3	Total Reserv e in M3	Colour Granite Recoverable Reserve @ 35%	Granite Waste @ 65%	Weathere d Granite	Side Burden	Topsoil
		I	36	36	1							1296
		II	34	33	4					4488		
	XY-AB	III	27	10	5						1350	
	A1-AD	IV	17	5	5						425	
05.08.2021		III	27	15	5	2025	2025	709	1316			
to		IV	17	10	5	850	850	298	552			
04.08.2022		I	10	44	1							440
		II	10	42	4					1680		
	X1Y1-	III	10	10	5						500	
	A1B1	III	10	24	5	1200	1200	420	780			
			тот	AL		4075	4075	1427	2648	6168	2275	1736
		I	36	44	1							1584
05.08.2022	374374	II	36	42	4					6048		
to	X1Y1-	III	36	10	5						1800	
04.08.2023	A1B1	III	36	24	5	4320	4320	1512	2808			
			TOT	AL		4320	4320	1512	2808	6048	1800	1584

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Year	Section	Bend	ch	L (m)	W (m)	D (m)	Volum e in M3	Total Reserv e in M3	Colour Granite Recoverabl e Reserve @ 35%	Granit e Waste @ 65%	Weathere d Granite	Side Burde n	Topsoi l
05.00.202		I		28	44	1							1232
05.08.202 3 to	X1Y1-	II		27	42	4					4536		
04.08.202	A1B1	III		35	10	5						1750	
4		III		35	24	5	4200	4200	1470	2730			
		TOTAL					4200	4200	1470	2730	4536	1750	1232
05.08.202		IV	36	24		5	4320	4320	1512	2808			
4 to 04.08.202 5	X1Y1- A1B1			TOTAL		4320	4320	1512	2808				
05.08.202		IV	39	24		5	4680	4680	1638	3042			
5 to 04.08.202 6	X1Y1- A1B1	TOTAL					4680	4680	1638	3042			
	GRA	ND TO	OTAL	ı	GRAND TOTAL					14036	16752	5825	4552

#### 6. Mining

#### **Opencast mining**

The quarry operation is proposed to carry out with conventional open cast semi mechanized mining with 5.0 meter vertical bench with a bench width of 5.0 meter. The Quarry operation involves Diamond wire saw cutting, loading and transportation.

## **Process Description**

The proposed mining is planned to be carried out by open cast-semi mechanized method of mining, in this proposed mining area by using compressor operated jack hammer drills, excavators and dumpers etc.

Hydraulic excavator will be used to remove the over burden, Shifting of Blocks and waste removal etc. Compressor operated jack hammers will be used to drill the holes as preparatory work before cutting the Block by using Wire saw.

The diamond wire saw has many advantages to its credit such as

- 1) Reduced Consumption of Explosives.
- 2) Reduced noise level
- 3) Reduced Loss of material
- 4) Simple to use and saves squaring operation.

#### 7. Water Requirement

Total water requirement for the mining project is 2 KLD. Domestic water will be sourced from nearby K.Pitchampatti Village and other water will be source from nearby road tankers supply.

**Table 5. Water Balance** 

Purpose	Quantity	Source		
Domestic &	1.0 KLD	Drinking water will be brought from the		
Flushing		approved water vendors in the nearby villages.		
Green belt	0.5 KLD	Other domestic activities through road tankers		
		supply		
Dust suppression	0.5 KLD	From road tankers supply		
Total	2.0 KLD			

# 8. Man Power and Organization Chart

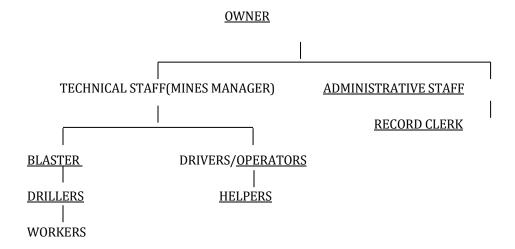
Total manpower required for the project is approximately 20 persons. Workers will be from nearby villages.

**Table 6. Man Power** 

1.	Project Mana	Project Manager, Supervisor and record Clerk		
2.	Skilled	Drill Operator	1 No.	
		Drillers/ Workers	4 No.	
		Excavator/ Rock Breakers		
		Vehicle Drivers	2 No.	
3.	Semi-skilled	1 No.		
4.	Unskilled (Di	6 Nos		
		Total =	20 Nos	

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

#### **ORGANISATION CHART**



# 9. Solid Waste Management

**Table 7. Solid Waste Management** 

S. No	Type	Quantity	Disposal Method
1	Organic	4.86 kg/day	Municipal bin including food
			waste
2	Inorganic	3.24 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 quarries:

S. No.	Name of the applicant	Village & Taluk	S. F. No.	Extent
		K.Pitchampatti	407/1, 407/2,	
1	Thiru.P.Ramachandran	Village and	407/3 (P), 407/4,	2.84.5 Ha
		Karur Taluk	408/3, 408/4 (P)	
	Tvl.Ananta Granites	K.Pitchampatti	468/1B (P), 417/8,	
2	LLP	Village and	468/2	2.22.5 Ha
	PPL	Karur Taluk	400/2	

# 2) Abandoned/Old quarries:

S. No.	Name of the applicant	Village & Taluk	S. F. No.	Extent
		Nil		

# 3) Details of Proposed/Applied quarries:

S.	Name of the lessee	Villaga & Taluk	CENO	Extent	Lease
No.	/ Permit Holder	Village & Taluk S. F. No. Extent		illage & Taluk S. F. No. Extent	Period
1.	M/s Dahlia Granites	K.Pitchampatti	417/2, 417/5,	2.65.0	Proposed
	Pvt Ltd	Village and Karur	417/7 (P), 454/2		Area
		Taluk			

2.	Smt.P.Sujeetha	K.Pitchampatti	404/1(P),	1.80.0	
		Village and Karur	404/2(P),		
		Taluk	404/3(P),		
			404/4(P),		
			404/5(P),		
			404/6(P),		
			404/7(P), 404/8,		
			405/1, 405/2,		
			405/3(P), 405/4,		
			405/5(P),		
			405/6A(P)		
				9.52.0	

The Total extent of the Existing / Lease expired / Proposed quarries are 9.52.0 Ha

# 10. Land Requirement

The total extent area of the project is 2.84.50 Ha, Patta land in K.Pitchampatti Village of Karur taluk, Karur District.

Table 9. Land Use Breakup

Description	Present Area (Ha.)	Area to be required at the present scheme period (Ha)	End of life of Quarrying Period (Ha.)
Area under Quarry	0.18.0	0.40.0	0.85.0
Dumps	0.20.0	0.41.0	0.61.5
Stockyard	Nil	Nil	Nil
Infrastructure	Nil	0.02.0	0.02.0
Roads	0.03.0	0.04.0	0.07.0
Green Belt	Nil	0.27.0	0.32.0
Unutilized Area	2.43.5	1.70.5	0.97.0
Grand Total	2.84.5	2.84.5	2.84.5

## 11. Human Settlement

There are no habitations within 500m radius. There are villages located in this area within 5km radius of the quarry.

Table 10. Habitation

Direction	Village	Population	Distance in Kms
North	K.Pitchampatti	200	2.3kms
West	Papanayakanoor	350	3.0km
East	Gudalur	250	5.0kms
South	Vasanthakathirpalayam	250	1.0km

#### 12. Power Requirement

The proposed granite building stone quarrying does not required any power supply for the quarrying operation.16 Litres diesel per hour required for excavator whenever needed.

#### 13. Scope of the Baseline Study

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

- 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 :  $26.3^{\circ}$ C

ii) Average Maximum Temperature. :  $40^{-0}$ C

iii) Average Annual Rainfall of the area: 806 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 PM10 (51-37( $\mu$ g/m3)), PM 2.5(14-22 ( $\mu$ g/m3)), SOx 5-9 ( $\mu$ g/m3), NOx (10-22 ( $\mu$ g/m3), all the parameters are well within the standards prescribed by National Ambient Air Quality during the study period from July to September, 2022

#### 13.3 Noise Environment

Ambient noise levels were measured at 5 locations around the proposed project site. The noise level during day varies from 41-65 dB(A) and during night varies between 36-50 dB(A).

#### 13.4 Water Environment

- The average pH ranges from 7.32-7.82
- TDS value varied from 720 mg/l to 1515 mg/l
- Hardness varied from 385 to 767 mg/l
- $\bullet$  Chloride varied from 155 to 420 mg/l

#### 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 6.9 to 8.05 with organic matter 0.67

% to 1.92 %. 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 private 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.

#### 15. Greenbelt Development

- 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 component of Environmental Management Plan, which will improve ecology, environment and quality of the surrounding area.
- 3. Local trees like Neem will be planted along the lease boundary and avenues as well as over Non-active dumps at a rate of 60 trees per annum with interval 5m.
- 4. The rate of survival expected to be 70% in this area

Table 11 Plantation/ Afforestation Program

Year	No. of tress proposed to be planted	Name of the species	Survival rate expected in %	No. of trees expected to be grown
I	270	Neem	70	189
II	270	Neem	70	189
III	270	Neem	70	189
IV	270	Neem	70	189
V	270	Neem	70	189

#### 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

#### 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.1,32,30,000** 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

**Table 12 Project Cost details** 

S. No.	Description	Cost
1	Fixed ,Asset Cost	33,50,000
2	Operational Cost	95,00,000
3	EMP Cost	3,80,000
	Total	1,32,30,000

#### 20. Corporate Environmental Responsibility

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

**Table 13 CER Cost** 

S.No.	CER Activity	CER (Rs.)
	Panchayat Union Primary School, K.Pitchampatti,	
	Panchayat Union Primary School, Alampadi	
	Activity:	
	Provision of	
1.	➤ Green Belt Development	
1.	➤ Solar powered Smart Classroom,	
	➤ Solar lights to the School,	5,00,000
	➤ Environmental Awareness related books to the school library,	
	➤ Basic amenities such as safe Drinking Water, Hygienic Toilet facilities.	
	➤ Greenbelt development in and around the school	

#### 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	s 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.