

# EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY CATEGORY – B1

(Public Hearing Upgraded after Terms of Reference (ToR) as per the provisions of EIA Notification 2006 & amendments thereof)

APPROVED TOR VIDE TOR IDENTIFICATION No. TO25B0108TN5501934N Dated: 30.07.2025

| PROPOSED QUARRY LEASE DETAILS                              |                                      |
|------------------------------------------------------------|--------------------------------------|
| SURVEY NO                                                  | 27/1A (BLOCK-2)                      |
| VILLAGE                                                    | ELAMBALUR                            |
| TALUK                                                      | PERAMBALUR                           |
| DISTRICT                                                   | PERAMBALUR                           |
| EXTENT                                                     | 1.80.0 Ha                            |
| CLUSTER EXTENT                                             | 7.50.0 Ha                            |
| PROPOSED PRODUCTION QUANTITY FOR TEN YEARS (upto 47m AGL ) | ROUGH STONE: 3,11,135 m <sup>3</sup> |
| PEAK PRODUCTION QUANTITY                                   | ROUGH STONE: 47,200 m <sup>3</sup>   |
| LAND                                                       | GOVERNMENT LAND (PORAMBOKE)          |

(Sector No. 1(a) (Sector no.1 as per NABET)  
Category of the Project: B1 Cluster Mining, Total Cluster Area – 7.50.0 Ha  
Baseline Monitoring Period – March to May 2025

## APPLICANT

**M/s. CHOZHA GROUPS**

NO.1/85, NEW NO.4/155, MARIYAMMANKOVIL STREET,  
ERUTHUKARANPATTI, RAJAJI NAGAR, ARIYALUR – 621713.

| ENVIRONMENTAL CONSULTANT                                                                                                                                                                                                                                                                                                                                                                                                                   | LABORATORY                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>M/s. GLOBAL MINING SOLUTIONS</b><br/>(NABET Accredited &amp; ISO 9001 Certified Consultant)<br/>Plot No. 6, S.F.No. 13/2, A2, VS City,<br/>RC Chettyapatty, Kottamettupatty, Omalur,<br/>Salem, Tamil Nadu – 636 455.<br/>NABET Accreditation No: NABET/EIA/23-26/SA 0241<br/>Valid up to: 03.02.2026<br/>Contact: 97502 23535 &amp; 94446 54520<br/>Email: infoglobalmining@gmail.com,<br/>globalminingsolutionssalem@gmail.com</p> | <p><b>M/s. SHRIENT ANALYTICAL &amp; RESEARCH LABS PRIVATE LIMITED</b><br/>(NABL Accredited Testing Laboratory)<br/>Valid up to: 29.09.2029<br/>#416/15, Dhargas Road, Perungalathur,<br/>West Tambaram, Chennai,<br/>Tamil Nadu, India.</p> |

## **EXECUTIVE SUMMARY**

### **1.1 INTRODUCTION**

Environmental Impact Assessment (EIA) as a tool used to identify the environmental, social and economic impacts of a project prior to decision-making. It aims to predict environmental impacts at an early stage in project planning and design, find ways and means to reduce adverse impacts, shape projects to suit the local environment and present the predictions and options to decision-makers.

This proposal is towards obtaining environmental clearance for Rough Stone Quarry located at S.F.No. 27/1A (BLOCK-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State for production capacity of 3,11,135 m<sup>3</sup> of Rough Stone for the period of Ten years with ultimate depth up to 47m (AGL). The mining plan has prepared and same was approved by Assistant Director, Department of Geology and Mining, Perambalur, vide ROC. No. 110/G&M/2025, Dated 12.05.2025.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone of "M/s. Chozha Groups" is falls under Schedule 1(a) Mining of Minerals. It is further classified under Category B1 due to the overall extent of cluster area is 7.50.00 Ha which is >5 Ha. The ToR for the preparation of EIA/EMP was approved vide ToR identification number TO25B0108TN5501934N Dated: 30.07.2025. This report has been prepared in line with the approved TOR for maximum excavation of 3,11,135 m<sup>3</sup> of Rough Stone for the period of 10 years with ultimate depth up to 47m AGL.

| S.No. | Description             | Status/Remarks            |
|-------|-------------------------|---------------------------|
| 1.    | Sector                  | 1(a), non-coal mining     |
| 2.    | Category of the project | B1                        |
| 3.    | Proposed mineral        | Rough Stone               |
| 4.    | Type of Lease           | Government Poramboke Land |
| 5.    | Extent of the lease     | 1.80.0 Ha.                |

**EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF M/s. CHOZHA GROUPS AT S.F.NO.27/1A (BLOCK-2) OVER AN EXTENT OF 1.80.0 Ha IN ELAMBALUR VILLAGE, PERAMBALUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE**

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|     |                                  |                                                                                                                                                    |
|-----|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.  | Proposed depth of Mining         | 47 m AGL                                                                                                                                           |
| 7.  | Method of mining                 | Opencast method of semi mechanized mining with 5.0m height 5m width the bench.                                                                     |
| 8.  | Proposed lease period            | 10 Years                                                                                                                                           |
| 9.  | Proposed Environmental Clearance | 10 Years                                                                                                                                           |
| 10. | Proposed production quantity     | Total production for 10 years - 3,11,135 m <sup>3</sup><br>First five years - 2,35,070 m <sup>3</sup><br>Second Five years - 76,065 m <sup>3</sup> |

M/s. Chozha Groups is an individual with sound experience in the identification, quarrying and marketing of Rough Stone. The proposed land is a Government land.

## **1.2 LOCATION**

The proposed Quarry Lease area is situated at S.F.NO.27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State. The area lies in the north latitude of **11°16'23.90"N to 11°16'29.88"N** and eastern longitude of **78°52'31.01"E to 78°52'37.77"E** with Survey of India Topo Sheet No. 58 I /15. To conduct the study, the proposed mine lease area (core zone) and an impact zone of 10 km radius (called buffer zone) around the proposed mine site were considered. The EIA report is based on three months baseline data (i.e. March 2025 to May 2025)

## **1.3 GEOLOGY**

The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high-grade metamorphic rock. The strike of the Charnockite formation is N300W-S300E with vertical dipping.

## **1.4 PROJECT DESCRIPTION**

This is a proposed Rough Stone by Opencast Mechanized mining method with drilling and blasting. The quarrying is restricted up to a depth of 47m AGL. The geological

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reserves are estimated to be Rough Stone – 6,12,970 m<sup>3</sup>. The mineable reserve calculated by deducting safety distance and bench loss. The mineable reserves are 3,11,135 m<sup>3</sup> of Rough Stone which will be recovered at the rate of 100% recovery upto a depth of 47m AGL for the period of Ten years.

- It is proposed to quarry out rough stone with 5m bench height, 5m width with overall slope is 47° using Open cast Mechanized method. The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of Rough Stone.
- There is no overburden anticipated during entire rough stone quarrying operation.

| S.No. | Type of Detail                  | Description                                                                                                                                                                               |
|-------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Sector                          | 1(a) Non coal mining                                                                                                                                                                      |
| 2     | Fresh/Existing project          | Fresh Lease                                                                                                                                                                               |
| 3     | Category                        | B1                                                                                                                                                                                        |
| 4     | Nature of mineral               | Rough Stone                                                                                                                                                                               |
| 5     | Production                      | Total production for 10 years - 3,11,135 m <sup>3</sup><br>First five years – 2,35,070 m <sup>3</sup><br>Second Five years – 76,065 m <sup>3</sup>                                        |
| 6     | Life                            | 10 years                                                                                                                                                                                  |
| 7     | Waste generation and management | There is no overburden anticipated during the quarrying operation. Hence, no waste generation. Top soil will be preserved in the safety zone and will be utilized for plantation purpose. |
| 8     | Bench height and width          | Height and Width – 5m                                                                                                                                                                     |
| 9     | Ultimate pit depth              | 47m AGL                                                                                                                                                                                   |
| 10    | End use                         | Rough Stone will be loaded into tippers to needy buyers for producing aggregates, M-sand.                                                                                                 |

## **1.5 PROJECT REQUIREMENTS**

The requirements of the project are given below.

| <b>S.No.</b> | <b>Nature of requirement</b>         | <b>Description</b>                                                                                                                                                                                       |
|--------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1            | Water requirement                    | Total water requirement of 3.0 KLD which will be procured from the outside agencies. 1.0 KLD drinking and domestic water requirement, green belt development is 1.0 KLD and dust suppression is 1.0 KLD. |
| 2            | Power requirement                    | No electricity is needed for mining operations, for office demands, it will be met from the state grid.                                                                                                  |
| 3            | Manpower requirement                 | 27 Nos                                                                                                                                                                                                   |
| 4            | Financial requirement                | Total EMP Cost for 10 years is 34.46 lakhs i.e., Rs. 9.1 Lakhs of Capital Cost + Rs. 25.36 Lakhs of Recurring cost (For 10 Years)                                                                        |
| 5            | Funds for Socio economic development | INR 3 Lakhs is allocated for CER activities.                                                                                                                                                             |

## **1.6 DESCRIPTION OF LEASE AREA**

The features in the study area is given below.

| <b>Table 11.1 Description of the lease area</b> |                                                                                                                                                 |                                                                                                                                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S.No.</b>                                    | <b>Areas</b>                                                                                                                                    | <b>Distance from project site</b>                                                                                                                                         |
| 1                                               | Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value | Nil within 15km radius                                                                                                                                                    |
| 2                                               | Areas which are important or sensitive for ecological reasons                                                                                   |                                                                                                                                                                           |
| A                                               | Wetlands, water courses or other water bodies,                                                                                                  | Tank-900m(SW), Elambalur Lake-1.33Km(SE), Thonappady periya Yeri-8.62Km(N), Esani Lake-6.43Km(NW), Senjeri Lake-7.14Km(SW), Thuraimangalam Lake-5.37Km(SE), Palayam Lake- |

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|    |                                                                                                                                                                                                                         |                                                        |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|    |                                                                                                                                                                                                                         | 8.16Km(SW),Keelapuliur Lake-<br>9.47Km(NE)             |
| B  | Coastal zone, biospheres,                                                                                                                                                                                               | Nil within 10km radius                                 |
| C  | Mountains, forests                                                                                                                                                                                                      | Nagoor R.F-8.16Km (NW), Kalarampatti R.F<br>9.10Km(NW) |
| 3  | Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration                                                                            | Nil within 15km radius                                 |
| 4  | Inland, coastal, marine or underground waters                                                                                                                                                                           | Nil within 15km radius                                 |
| 5  | State, National boundaries                                                                                                                                                                                              | Nil within 15km radius                                 |
| 6  | Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas                                                                                                                        | Nil within 15km radius                                 |
| 7  | Defense installations                                                                                                                                                                                                   | Nil within 15km radius                                 |
| 8  | Densely populated or built-up area                                                                                                                                                                                      | Perambalur – 4.02km(SW)                                |
| 9  | Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)                                                                                                            | Perambalur – 4.02km(SW)                                |
| 10 | Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)                                                           | Nil                                                    |
| 11 | Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)                                                                                         | Nil                                                    |
| 12 | Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects | No. The area is not prone to earthquakes, floods, etc. |

The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during March to May 2025.

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Air, water, noise and soil samples are collected and analyzed through NABL accredited lab.

### **1.7 AIR ENVIRONMENT**

The air monitoring have been carried out in 7 locations and the results are given below.

| <b>S. No.</b> | <b>Location Code</b> | <b>Monitoring Locations</b> | <b>Distance &amp; Direction from Site</b> | <b>Latitude and longitude</b> |
|---------------|----------------------|-----------------------------|-------------------------------------------|-------------------------------|
| 1             | AAQ1                 | Within ML area              | -                                         | 11°16'23.10"N, 78°52'26.75"E  |
| 2             | AAQ2                 | Samathuvapuram              | 660m, W                                   | 11°16'19.07"N, 78°52'1.96"E   |
| 3             | AAQ3                 | Thanipand                   | 2.6km, E                                  | 11°16'27.02"N, 78°53'56.53"E  |
| 4             | AAQ4                 | Elambalur                   | 0.81km, SE                                | 11°16'10.24"N, 78°52'53.33"E  |
| 5             | AAQ5                 | Vadakumadhavi               | 2.09km, N                                 | 11°17'33.06"N, 78°52'29.04"E  |
| 6             | AAQ6                 | Mettu theru, Perambalur     | 2.20km, SW                                | 11°15'9.88"N, 78°52'8.84"E    |
| 7             | AAQ7                 | Erikarai                    | 0.68km, N                                 | 11°16'43.76"N, 78°52'15.73"E  |

### Results of Air sampling Analysis in 7 locations

| Code           | PM 10 ( $\mu\text{g}/\text{m}^3$ ) |      |      |                | PM 2.5 ( $\mu\text{g}/\text{m}^3$ ) |      |      |                | SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |     |     |                | NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ ) |     |      |                |
|----------------|------------------------------------|------|------|----------------|-------------------------------------|------|------|----------------|----------------------------------------------|-----|-----|----------------|----------------------------------------------|-----|------|----------------|
|                | Max                                | Min  | Avg  | 98 percentiles | Max                                 | Min  | Avg  | 98 percentiles | Max                                          | Min | Avg | 98 percentiles | Max                                          | Min | Avg  | 98 percentiles |
| AAQ 1          | 59.7                               | 48.6 | 53.7 | 59.5           | 28.1                                | 22.9 | 25.2 | 28.0           | 6.5                                          | 4.1 | 5.4 | 6.5            | 23.3                                         | 7.1 | 9.6  | 22.8           |
| AAQ 2          | 67.3                               | 51.8 | 59.1 | 67.0           | 30.9                                | 23.8 | 27.2 | 30.8           | 6.3                                          | 4.9 | 5.7 | 6.3            | 12.9                                         | 7.9 | 10.2 | 12.8           |
| AAQ 3          | 64.4                               | 50.0 | 57.2 | 64.1           | 29.0                                | 22.5 | 25.7 | 28.9           | 6.8                                          | 4.7 | 5.8 | 6.8            | 14.4                                         | 8.0 | 11.1 | 14.3           |
| AAQ 4          | 56.0                               | 47.4 | 51.7 | 55.8           | 25.7                                | 21.8 | 23.7 | 25.6           | 6.5                                          | 3.9 | 5.3 | 6.5            | 11.8                                         | 6.8 | 9.3  | 11.7           |
| AAQ 5          | 56.3                               | 46.5 | 51.0 | 56.1           | 25.3                                | 20.9 | 22.9 | 25.2           | 5.7                                          | 3.9 | 4.7 | 5.7            | 12.6                                         | 6.4 | 9.3  | 12.5           |
| AAQ 6          | 61.6                               | 45.6 | 54.7 | 61.3           | 30.4                                | 22.8 | 26.6 | 30.2           | 6.5                                          | 4.3 | 5.4 | 6.5            | 13.1                                         | 6.6 | 9.6  | 13.0           |
| AAQ 7          | 55.6                               | 45.4 | 50.3 | 55.4           | 26.2                                | 21.8 | 24.0 | 26.1           | 6.6                                          | 4.1 | 5.2 | 6.5            | 12.0                                         | 6.5 | 8.7  | 11.9           |
| NAAQ Standards | 100 ( $\mu\text{g}/\text{m}^3$ )   |      |      |                | 60( $\mu\text{g}/\text{m}^3$ )      |      |      |                | 80 ( $\mu\text{g}/\text{m}^3$ )              |     |     |                | 80 ( $\mu\text{g}/\text{m}^3$ )              |     |      |                |

All the values of pollutant concentrations were found to be within the NAAQs Standards.

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## 1.8 WATER ENVIRONMENT

| Results of Ground Water sampling Analysis in 7 locations |               |               |               |               |               |               |               | Standards as Per IS 10500: 2012 |                    |
|----------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------------------|--------------------|
| Parameter                                                | W1            | W2            | W3            | W4            | W5            | W6            | W7            | Acceptable Limits               | Permissible Limits |
| Odour                                                    | Agreeable     | Agreeable     | Agreeable     | Agreeable     | Agreeable     | Agreeable     | Agreeable     | Agreeable                       | Agreeable          |
| Turbidity                                                | <1            | <1.0          | <1.0          | <1            | <1            | <1            | <1            | 1                               | 5                  |
| pH at 25 °C                                              | 7.66          | 7.42          | 7.71          | 7.39          | 7.84          | 7.56          | 7.62          | 6.5-8.5                         | No Relaxation      |
| Electrical Conductivity                                  | 916           | 1520          | 1502          | 1120          | 1915          | 2074          | 864           | -                               | -                  |
| Total Dissolved Solids                                   | 550           | 920           | 902           | 675           | 1150          | 1246          | 520           | 500                             | 2000               |
| Total hardness as CaCO <sub>3</sub>                      | 314           | 338           | 394           | 452           | 254           | 485           | 274           | 200                             | 600                |
| Calcium as Ca                                            | 84.0          | 105           | 78.4          | 124           | 50.4          | 104           | 52.8          | 75                              | 200                |
| Magnesium as Mg                                          | 25.0          | 18.2          | 47.5          | 34.1          | 30.7          | 54.0          | 34.1          | 30.0                            | 100                |
| Calcium as CaCO <sub>3</sub>                             | 210           | 262           | 196           | 310           | 126           | 260           | 132           | -                               | -                  |
| Magnesium as CaCO <sub>3</sub>                           | 104           | 76.0          | 198           | 142           | 128           | 225           | 142           | -                               | -                  |
| Total alkalinity as CaCO <sub>3</sub>                    | 232           | 338           | 386           | 280           | 398           | 414           | 154           | 200                             | 600                |
| Chloride as Cl <sup>-</sup>                              | 86.2          | 182           | 245           | 124           | 384           | 386           | 138           | 250                             | 1000               |
| Free Residual chlorine as Cl <sup>-</sup>                | BDL(D.L-0.2)  | BDL(D.L-0.2)  | BDL(D.L-0.2)  | BDL(D.L-0.2)  | BDL(D.L-0.2)  | BDL(D.L-0.2)  | BDL(D.L-0.2)  | 0.2                             | 1                  |
| Sulphates as SO <sub>4</sub> <sup>2-</sup>               | 186           | 320           | 238           | 156           | 310           | 392           | 98.6          | 200                             | 400                |
| Iron as Fe                                               | 0.05          | BDL(D.L-0.01) | BDL(D.L-0.01) | BDL(D.L-0.01) | 0.04          | 0.05          | BDL(D.L-0.01) | 0.3                             | No Relaxation      |
| Nitrate as NO <sub>3</sub>                               | 3.35          | 2.67          | 1.75          | 2.12          | 2.45          | 3.28          | 2.54          | 45                              | No Relaxation      |
| Fluoride as F                                            | 0.26          | 0.45          | 0.38          | 0.31          | 0.19          | 0.32          | 0.18          | 1                               | 1.5                |
| Manganese as Mn                                          | BDL(D.L-0.05) | BDL(D.L-0.05) | BDL(D.L-0.05) | BDL(D.L-0.05) | BDL(D.L-0.05) | BDL(D.L-0.05) | BDL(D.L-0.05) | 0.1                             | 0.3                |

### Surface Water Analysis Results

| S.No | Parameter                                  | Unit  | SW1           | SW2           | Surface water standard s (IS 2296 Class-A) |
|------|--------------------------------------------|-------|---------------|---------------|--------------------------------------------|
| 1    | Odour                                      | -     | AGREEABLE     | AGREEABLE     | -                                          |
| 2    | Turbidity                                  | NTU   | <1            | <1            | 1                                          |
| 3    | pH at 25 °C                                | -     | 7.66          | 7.45          | 6.5-8.5                                    |
| 4    | Electrical Conductivity                    | µs/cm | 1346          | 1105          | -                                          |
| 5    | Total Dissolved Solids                     | mg/l  | 810           | 670           | 500                                        |
| 6    | Total hardness as CaCO <sub>3</sub>        | mg/l  | 490           | 450           | 300                                        |
| 7    | Calcium as Ca                              | mg/l  | 98.0          | 123           | 80                                         |
| 8    | Magnesium as Mg                            | mg/l  | 58.8          | 34.1          | 24                                         |
| 9    | Calcium as CaCO <sub>3</sub>               | mg/l  | 245           | 308           | -                                          |
| 10   | Magnesium as CaCO <sub>3</sub>             | mg/l  | 245           | 142           | -                                          |
| 11   | Total alkalinity as CaCO <sub>3</sub>      | mg/l  | 210           | 272           | -                                          |
| 12   | Chloride as Cl <sup>-</sup>                | mg/l  | 243           | 136           | 250                                        |
| 13   | Free Residual chlorine as Cl <sup>-</sup>  | mg/l  | BDL(D.L-0.2)  | BDL(D.L-0.2)  | -                                          |
| 14   | Sulphates as SO <sub>4</sub> <sup>2-</sup> | mg/l  | 202           | 162           | 400                                        |
| 15   | Iron as Fe                                 | mg/l  | BDL(DL-0.01)  | BDL(DL-0.01)  | 0.3                                        |
| 16   | Nitrate as NO <sub>3</sub>                 | mg/l  | 2.78          | 2.69          | 20                                         |
| 17   | Fluoride as F                              | mg/l  | 0.36          | 0.35          | 1.5                                        |
| 18   | Manganese as Mn                            | mg/l  | BDL(D.L-0.05) | BDL(D.L-0.05) | 0.5                                        |
| 19   | COD                                        | mg/l  | 32.5          | 25.4          | -                                          |
| 20   | BOD                                        | mg/l  | 7.2           | 5.9           | 2.0                                        |
| 21   | TSS                                        | mg/l  | 25            | 16            | -                                          |
| 22   | DO                                         | mg/l  | 6.1           | 6.3           | 6.0                                        |

All the values were found to be within permissible limits

### 1.9 NOISE ENVIRONMENT

Noise levels were measured in 7 locations and the results are given below.

| DESCRIPTION                       | ANL1 | ANL2 | ANL3 | ANL4 | ANL5 | ANL6 | ANL7 |
|-----------------------------------|------|------|------|------|------|------|------|
| <b>DAY EQUIVALENT</b>             | 46.4 | 48.7 | 50.0 | 51.7 | 48.1 | 48.4 | 45.9 |
| <b>NIGHT EQUIVALENT</b>           | 41.2 | 40.3 | 41.0 | 40.8 | 41.4 | 45.7 | 42.0 |
| <b>DAY &amp; NIGHT EQUIVALENT</b> | 45.2 | 47.2 | 48.5 | 50.2 | 46.8 | 47.7 | 45.0 |

### **1.10 SOIL ENVIRONMENT**

Soil samples are collected from 7 locations and the results are given below.

| S. No | Parameter               | S1             | S2             | S3              | S4             | S5             | S6             | S7             |
|-------|-------------------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| 1     | pH at 25 °C             | 7.42           | 6.55           | 7.01            | 7.49           | 6.94           | 7.29           | 7.05           |
| 2     | Electrical Conductivity | 119.4          | 80.2           | 95.7            | 66.48          | 73.25          | 78.95          | 75.24          |
| 3     | Dry matter content      | 96.34          | 96.48          | 97.34           | 96.25          | 95.33          | 97.32          | 96.55          |
| 4     | Water Content           | 3.66           | 3.52           | 2.66            | 3.75           | 4.67           | 2.68           | 3.45           |
| 5     | Organic Matter          | 0.94           | 0.66           | 0.72            | 0.68           | 0.86           | 0.78           | 0.96           |
| 6     | Soil texture            | SANDY LOAM     | LOAM           | SILTY CLAY LOAM | LOAM           | LOAM           | LOAM           | LOAM           |
| 7     | Grain Size Distribution | 62.47          | 46.89          | 20.33           | 47.64          | 36.59          | 47.58          | 37.22          |
|       | i. Sand                 |                |                |                 |                |                |                |                |
|       | ii. Silt                |                |                |                 |                |                |                |                |
| 8     | iii. Clay               | 26.56          | 36.57          | 40.24           | 30.26          | 44.22          | 30.62          | 44.35          |
| 9     | Phosphorous as P        | 10.97          | 16.54          | 39.43           | 22.10          | 19.19          | 21.80          | 18.43          |
| 10    | Sodium as Na            | 1.82           | 1.54           | 1.69            | 1.31           | 1.19           | 1.21           | 1.29           |
| 11    | Potassium as K          | 454            | 622            | 590             | 670            | 564            | 690            | 584            |
| 12    | Total Nitrogen          | 312            | 425            | 484             | 368            | 326            | 378            | 346            |
| 13    | Total Sulphur           | 165            | 228            | 172             | 184            | 210            | 204            | 230            |
| 14    | Water Holding Capacity  | BDL(D. L.0.02) | BDL(D. L.0.02) | BDL(D. L.0.02)  | BDL(D. L.0.02) | BDL(D. L.0.02) | BDL(D. L.0.02) | BDL(D. L.0.02) |
| 15    | Porosity                | 38             | 32             | 35              | 34             | 35             | 34             | 38             |
| 16    |                         | 15.8           | 16.7           | 18.2            | 17.5           | 16.6           | 17.5           | 16.6           |

### **1.11 BIOLOGICAL ENVIRONMENT**

#### **FLORA**

For measuring the extent of flora present in the study area, the area is divided in to 4 quadrants. The flora population in each quadrant is summed up for the total population in the study area. Field survey is done. Erukku, Aavarai and Nayuruvi are found in lease area. In the buffer zone, common trees like Neem, papaya, mango,

teak, etc and shrubs like Avarai, Aloe vera, etc, climbers like Kovai, Jasmine etc are found.

## **FAUNA**

In the study area, commonly found animals like dogs, cats, bush rat, cows, birds like crow, Myna, Sparrow, etc were found.

### **1.12 LAND USE**

The land use land cover data is found using the LANDSAT – 9 satellite imagery. The number of bands used are 11. The land use pattern is given below:

#### **Major Land Use Units of the Study Area in Percentage**

| <b>Sl.No.</b> | <b>LAND USE / LAND COVER</b> | <b>Area in Sq.Km</b> | <b>Area in Percentage</b> |
|---------------|------------------------------|----------------------|---------------------------|
| 1             | Built-up land                | 18.99                | 5.94                      |
| 2             | Crop land                    | 188.56               | 59.01                     |
| 3             | Existing quarries            | 5.65                 | 1.76                      |
| 4             | Hill and forest              | 13.4                 | 4.19                      |
| 5             | Land with scrub              | 14.96                | 4.68                      |
| 6             | Land without scrub           | 39.65                | 12.04                     |
| 7             | Fallow                       | 26.69                | 8.35                      |
| 8             | Water bodies                 | 11.63                | 3.64                      |
|               | <b>Total Area</b>            | <b>319.53</b>        | <b>100.00</b>             |

### **1.13 SOCIO ECONOMIC ENVIRONMENT**

The socio-economic environment of the study area is studied by conducting primary sites through site visits and conducting sample surveys. The secondary data obtained from Census 2011 is also used.

The following data area collected from secondary data.

- Demographic pattern.
- Health pattern
- Occupational structure.
- Amenities available.

The expert visited nearby villages in the study area. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in

the area. The expert also visited nearby hospitals and primary health centers. The following observations were made.

The following observations were made.

Primary and higher secondary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital within 5 km from the project site.

#### **1.14 HYDROGEOLOGY OF THE LEASE AREA**

The area is studded with few tanks that serve as the source for agriculture and also their surplus feeds adjoining tanks. The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 47 m AGL and water table is found at a depth of 70 m BGL.

There are two tanks located in the study area, which are mostly dry throughout the year. These tanks get water only during monsoons. The factors may be monsoon failure, insufficient rainfall, poor rain water management and water consuming patterns.

#### **1.15 GROUND WATER STUDY**

For Ground water study, satellite imagery is used. Water levels from monitoring levels are collected through imaging. The pre-monsoon and post-monsoon data are collected and the results are analyzed.

As far as the mining lease area is considered, the area is rocky and no major seepage is envisaged. The production quantity is very less and the depth proposed is 47 m AGL. Hence, there will not be any major impact due to mining on water levels or ground water levels in the area.

## **ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES**

Environmental impacts on the following environments are identified.

- Land environment
- Water environment
- Vegetation
- Fauna
- Air environment
- Noise environment
- Socio-economic impacts

### **1.16 LAND ENVIRONMENT: IMPACT AND MITIGATION MEASURES**

The major impact due to this project on land environment is the change in land use. Since this quarry is a small one and the production is less, mining activity will be carried out upto 47m AGL. Other than quarrying of minerals, no other change will be done since there is no dumping. To prevent soil erosion during monsoon season, garland drain will be constructed with silt traps. At the mine closure stage, 1.28.0 Ha of lease area will be left as rain water harvesting pond. 0.50.0 Ha will be developed with green belt. For this, plants like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indica are selected. A total of 500 trees are planned to be planted. Spacing will be 3m x 3m.

### **1.17 WATER ENVIRONMENT: IMPACT AND MITIGATION MEASURES**

No major river is found nearby the lease applied area. The area is studded with few tanks that serve as the source for agriculture and also their surplus feeds adjoining tanks. The rainfall over the area is moderate, the rainwater storage in open wells, trenches is in practice over the area and the stored water acts as source of freshwater. Since the mining operation will be limited upto depth of 47 m AGL, there will not be any seepage. However, the rain water percolation and collection of water from seepage shall be less than 300lpm and it shall be pumped out periodically by a stand

by diesel powered Centrifugal pump motivated with 7.5 H.P. Motor. The quality of water is expected to be potable. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water can also be used for plantation purposes

The major water bodies found in the buffer zone are Tank-900m(SW), Elambalur Lake-1.33Km(SE), Thonappady periya Yeri- 8.62Km(N), Esani Lake-6.43Km(NW), Senjeri Lake-7.14Km(SW) ,Thuraimangalam Lake-5.37Km(SE),Palayam Lake-8.16Km(SW),Keelapuliyur Lake-9.47Km(NE) of the lease applied area. There are no other Water bodies (River, Pond, Lake, Odai, Channel, etc.) within a radius of 500m.

Since these water bodies are located outside the lease area and there is no discharge of effluent or any untreated water from the mines will be made in to these water bodies, there is no major impact. The proponent will restrict the mining operation only within the lease and no other work will be carried out near the water bodies or any area outside the lease.

It is planned to carryout appropriate rainwater harvesting schemes and artificial recharge schemes in the area.

- Rain water falling in the quarry will be collected efficiently through garland drains.
- Water thus collected will be passed through collection tank with silt traps. This water can be used by the proponent for water sprinkling and for green belt purposes.
- Excess water after desiltation will be provided to downstream users, if any

## **1.18 BIOLOGICAL ENVIRONMENT: IMPACT AND MITIGATION MEASURES**

### **Impacts**

- Fauna is affected due to noise and vibration.
- Dust generation due to mining activities
- Change in land use of the lease area
- Accidental falling of animals

### **Mitigation measures**

- Sirens will be blown before blasting in the mines. To reduce noise levels, plantation will be done. Blasting will be carried out only in the allotted time.
- To reduce dust generation, mist sprayers will be used. During transportation, the material will be covered with tarpaulin. Water sprinkling will be done to reduce generation of pollutants
- After the mine closure stage, the mine pit will be left as rain water collecting tank, which can attract bird population in the nearby areas.
- To prevent entry of animals, the mining area will be properly fenced.

### **1.19 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES**

The major air pollutants due to mining operations are fugitive emissions like PM<sub>10</sub>, PM<sub>2.5</sub>. Other than these pollutants, gaseous emissions of sulfur dioxide (SO<sub>2</sub>) and oxides of nitrogen (NO<sub>x</sub>) due to excavation/loading equipment and vehicles plying on haul roads are the cause of air pollution in the project area.

The major impacts are Dust emission due to drilling, blasting and transportation. The major mitigation measures include Using Wet drilling methods, Allowing drilling only with PPE, Carrying out blasting only during specified times, Avoiding blasting during unfavourable weather conditions, Using explosives of good quality, Using mist sprayers Regular wetting of transport, Covering the materials carried in tippers with tarpaulin, Proper maintenance of vehicles used for transportation, Conducting regular emission tests for vehicles used for transport Development of greenbelt is proposed in the safety zone of 7.5m barriers in the lease area.

The anticipated data is calculated using AERMOD software and the projected values are found to be within limits.

### **1.20 NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES**

#### **Impacts**



Noise generation in mining is due to operation like drilling, blasting and

transportation of minerals within and outside the lease area.

✚ As per DGMS (Directorate General of Mines Safety) and OSHA (Occupational Safety and Health Administration) limits, the acceptable noise level is 90 dB(A) for an exposure period of 8 hours.

✚ Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. Noise pollution also impacts the health and well-being of wildlife.

✚ Noise exceeding prescribed limits may cause impairment like abnormal loudness perception, tinnitus, which causes a persistent high-pitched ringing in the ears, paracusis or distorted hearing.

### **Mitigation measures**

✚ As the distance between the source and receptor increases, the noise level also decreases. Hence, there will be a natural attenuation

✚ The proposed has planned to develop green belt in the periphery of the lease area, which diminishes sound volume by dampening them.

✚ All the equipment/machinery/trucks involved will be properly maintained to control noise generation

✚ Conducting regular health checkups for employees involved

✚ Employees will be made to work on shifts to reduce their exposure time

✚ Providing earplugs to all employees

By adopting these measures, the noise levels will be maintained well within MoEFCC limits since the baseline value is low.

### **VIBRATION: IMPACT AND MITIGATION MEASURES**

#### **Impacts**

✚ Though vibration will be only felt by the people working inside the lease area, it is usually undesired.

✚ Vibration may also cause flyrocks

✚ It may frighten the birds and small insects in the lease area. However, it will be felt only for a short period

### **Mitigation measures**

- ✚ Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM
- ✚ Control of fly rock and vibration by maintaining peak particle velocity with in standard as prescribed by the DGMS and MOEFCC.
- ✚ Shallow depths jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive
- ✚ Supervising blasting by competent and statutory foreman/ mines manager

## **1.21 SOCIO ECONOMIC ENVIRONMENT**

### **Impact and Mitigation measures**

No land is acquired from anyone. No rehabilitation is needed. Hence, there is no negative impact. The proponent has planned to spend INR 3,00,000 for CER activities. This amount will be subjected to change after public hearing.

## **1.22 OCCUPATIONAL HEALTH**

### **Impacts**

Dust generation due to drilling and blasting, Noise generation due to drilling and blasting, unexpected accidents. Continuous exposure to dust causes Pneumonia, Tuberculosis, Rheumatic arthritis and Segmental Vibration, Short term impact will be lack of sleep, high blood pressure and heart ailments. Long term exposure may lead to partial or permanent deafness, Risks include fly rocks, cracks or fissures due to improper mining methods

### **Mitigation measures**

- Using dust suppression measures like water spraying on roads to reduce rise of air pollutants
- Providing green belt for air pollutant and noise attenuation
- Ensuring slope stability
- Employing only trained professionals for blasting
- Conducting Pre-Medical Examination for employees before inducting

- Conducting periodical Medical Examination once in 6 months.
- Making all first aid kits available in mines office
- Keeping fire extinguisher in place
- Educating the employees about how to handle unexpected happenings
- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in the quarry will be ensured.

### **1.23 ENVIRONMENTAL MONITORING PROGRAMME**

Monitoring is done to measure the efficiency of control measures implemented. Regular monitoring of various environmental parameters like air, water, noise and soil environments is needed to assess the status of environment during the project operation. A schedule is framed with timeline to monitor various parameters during the operation of the project. To evaluate the effectiveness of environmental management programme, regular monitoring of the important environmental parameters will be taken up. Air monitoring will be carried out once in 3 months, water sample will be collected once in a season, noise will be monitored once in 3 months, soil samples will be analyzed once per season. For EMP, a budget of INR 34.36 (10 years) Lakhs is allocated.

### **1.24 PROJECT BENEFITS**

#### **Financial benefits**

- This project will contribute financially through payment of taxes like royalty, GST, etc.,
- The project will also contribute via CSR.
- The demands of people during public hearing will also be considered by the project proponent

### **Social benefits**

- This project provides employment to 27 people directly. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.
- For CSR, INR 3,00,000 is allocated.
- Based on the demand of the people during public hearing, further funds will be allocated, if necessary.
- Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and 34.46 lakhs (i.e., Rs. 9.1 Lakhs of Capital Cost + Rs. 25.36 Lakhs of Recurring cost) for Ten years has been allocated as EMP cost. The EMP is dynamic, flexible and subjected to periodic review. For project where the major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.

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# **ANNEXURE-1**

ANNEXURE

Rc.No.110/G&M/2025, Dated:28.04.2025

Department of Geology & Mining  
Collectorate,  
Perambalur - 621212.



**PRECISE AREA COMMUNICATION LETTER**

Sub : Mines and Minerals - Perambalur District - Rough Stone - e-Tender cum auction conducted on 27.03.2025 under Tender ID: 2025\_CGAM\_525779\_1 - M/s. Chozha Groups (BID ID:1273548) quoted highest Bid amount (H1) For the quarry listed in Serial Number 10 - Declared as H1 bidder - H1 Bid Amount remitted - Solvency Certificate submitted - Precise Area Communicated - Reg.

Ref: 1. G.O.(Ms).No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024  
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.  
3. E-Tender published under Tender ID:2025\_CGAM\_525779\_1 in Tamil Nadu Governmente-tender portal.  
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated:28.03.2025 (to remit 10% of highest bid amount)  
5. Remittance challan No. 20250329002376 dated:29.03.2025 submitted by M/s. Chozha Groups (BID ID:1273548)  
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)  
7. Remittance challan No. 20250409007288 dated:09.04.2025 submitted by M/s. Chozha Groups (BID ID:1273548)

\*\*\*\*\*

I invite your attention to the references cited above

Notice Inviting Tender (NIT) was published vide Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025, inviting applications for grant of rough stone quarry leases in Government poramboke lands in Perambalur District through e-Tender cum Auction. Online tender was published in Tamil Nadu Government e-tender portal (<https://tntenders.gov.in/>) under Tender ID:2025\_CGAM\_525779\_1 and e-Auction was conducted on 27.03.2025 for the bidders whos' bids were qualified technically and financially.

After Financial Evaluation, M/s. Chozha Groups (BID ID:1273548) was declared as H1 bidder for the quarry listed in Serial Number 10 of the Gazette as the firm quoted highest bid amount of Rs. 4,74,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4<sup>th</sup> cited and accordingly, the H1 bidder remitted 10% of the bid amount to a sum of Rs. 47,40,000/- and submitted remittance challan No. 20250329002376 dated: 29.03.2025 to this office.

Subsequently, M/s. Chozha Groups (BID ID:1273548) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by them within one month to Government head of account and to submit original remittance challan to this office. Accordingly, M/s. Chozha Groups (BID ID:1273548) has remitted Rs.3,90,24,983/- after deducting Rs.36,35,017/- (the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office.

The details of H1 Bidder for the quarry listed in Serial No.10 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

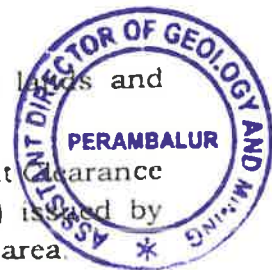
|                                                                  |                                                                                                                                                   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Quarry Detail</b>                                          |                                                                                                                                                   |
| Serial No. in District Gazette No.01, dated 18.02.2025.          | 10                                                                                                                                                |
| Taluk                                                            | Perambalur                                                                                                                                        |
| Village                                                          | Elambalur                                                                                                                                         |
| S.F.No.                                                          | 27/1A (Block-2)                                                                                                                                   |
| Extent                                                           | 1.80.0 Hectares                                                                                                                                   |
| Lease Period                                                     | 10 Years                                                                                                                                          |
| <b>2. H1 Bidder, Bid Amount Remittance</b>                       |                                                                                                                                                   |
| H1 Bidder                                                        | M/s. Chozha Groups (BID ID:1273548),<br>Old No:1/85 New No.4/155,<br>Mariyamankovil street,<br>Erthkaranpatti, Rajaji Nagar,<br>Ariyalur 621 713. |
| H1 Bid Amount                                                    | Rs. 4,74,00,000/-                                                                                                                                 |
| 10% of H1 bid amount remitted                                    | Rs. 47,40,000/-<br>(Challan No. 20250329002376 dated:29.03.2025)                                                                                  |
| Bid Security (EMD) already remitted                              | Rs. 36,35,017/-                                                                                                                                   |
| 90% of bid amount paid after adjusting Bid Security already paid | Rs. 3,90,24,983/-<br>(Challan No. 20250409007288 dated:09.04.2025)                                                                                |

The H1 Bidder, M/s. Chozha Groups (BID ID:1273548) has remitted entire H1 Bid Amount of Rs.4,74,00,000/- in Government account within one month as per sub-rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959.

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.80.0 hectares of Government land in S.F.No. 27/1A (Block-2) of Elambalur Village, Perambalur Taluk and District as notified in Serial Number.10 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Roughstone for a period of 10 years to M/s. Chozha Groups (BID ID:1273548) , subject to the following conditions.

1. 10 meters safety distance should be left out for the adjacent Government lands.

- mit th.
2. The applicant shall not make any hindrance to the adjacent lands and public.
  3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.



The applicant M/s. Chozha Groups (BID ID:1273548) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further process.

**Encl:** Map showing the proposal lease area.

*[Signature]*  
28/04/25  
Assistant Director,  
Geology and Mining,  
Perambalur.

To  
M/s. Chozha Groups (BID ID:1273548),  
Old No:1/85 New No.4/155,  
Mariyammankovil street,  
Erthkaranpatti, Rajaji Nagar,  
Ariyalur 621 713.

Copy to:

1. The Chairman,  
SEIAA Level Environment Impact Assessment Authority,  
Panagal Maligai, Saidapet,  
Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.



# **ANNEXURE-2**

From

Thiru D.Bernard, M.Sc.,  
Assistant Director,  
Geology and Mining,  
Perambalur.

To

M/s.Chozha Groups,  
Old No.1/85, New No.4/155,  
Mariyammankovil Street,  
Eruthukaranpatti, Rajaji Nagar,  
Ariyalur – 621 713.

**Rc.No.110/G&M/2025,**

**Dated:12.05.2025**

Sir,

Sub: Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands –M/s. Chozha Groups, quoted highest Bid amount (H1) for the quarry in S.F.No.27/1A (Block -2), OAE of 1.80.0 hectare in Elambalur Village, Perambalur Taluk –Declared as H1 bidder – H1 Bid Amount remitted – Precise Area Communicated – Draft Mining Plan submitted for approval – Approved - Reg.

- Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024.
  2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
  3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated:28.03.2025 & 01.04.2025.
  4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.110/G&M/2025, dated 28.04.2025.
  5. M/s. Chozha Groups, letter dated. 08.05.2025.

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Tender cum Auction for grant of Roughstone quarries in Government lands notified in Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025 was conducted through online as per Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959.

2) M/s. Chozha Groups was declared as Highest Bidder for the quarry in S.F.No. 27/1A(Block - 2),to an extent of 1.80.0 hectare in Elambalur Village, Perambalur Taluk, Perambalur District and the lease period proposed for the subject quarry is 10(ten) years. The Highest Bidder M/s. Chozha Groups, remitted entire highest bid amount and other statutory documents in time in accordance with rules and in the reference, 4<sup>th</sup> cited, precise area was communicated to the firm with a request to submit Mining Plan for the approval of the Assistant Director, Geology and Mining, Perambalur District and Environmental Clearance obtained from SEIAA for further process.

3) Accordingly, in the reference 5<sup>th</sup> cited, the successful bidder has submitted Draft Mining Plan prepared by Qualified Person for the above area. The draft Mining Plan submitted by M/s. Chozha Groups, has been scrutinized as per extant rules and guide lines / instructions issued by the Commissioner of Geology and Mining, Chennai in the letter Rc.No.3868/LC/2012 dated. 19.11.2012. The following observations were made in scrutiny.

- a. 10-meter safety distance is earmarked for the adjoining Government lands.
- b. The Geological reserve of Roughstone in the subject area has been assessed as 16,85,667 metric tonnes.
- c. The mineable reserve has been computed as 8,55,621 metric tonnes of Roughstone up to a depth of 47m above ground level only.
- d. The lease period of the subject Roughstone quarry is 10(ten) years and the mining plan has been prepared accordingly.
- e. In the mining plan, it has been proposed for the production of 6,46,442 metric tonnes of Roughstone up to a depth of 47m above ground level in the first five years and remaining mineable quantity of 2,09,179 metric tonnes of Roughstone in the second five years of lease period.
- f. The depth of water table in the subject area is reported as 70m BGL and workable depth has been proposed to 47m above ground level only in the mining plan. Hence, the quarrying operation will not affect the water table in the area.
- g. Drilling and blasting using jack hammers and shot hole blasting are proposed. Small dia, 25mm slurry explosives are proposed to be used for shattering and heaving effect for removal and winning of Roughstone. No deep hole drilling or primary blasting is proposed.
- h. It has been proposed to adopt controlled blasting measures for minimizing ground vibration and fly rocks.
- i. Machineries like Tractor mounted compressor attached with Jack hammers, excavators with rock breaker attachment are proposed for quarrying operation. Trucks of 25/30 MT capacity are proposed for transportation.

4) The Mining Plan is prepared in accordance with the guidelines / instructions issued and tallies with the field conditions. The special conditions imposed in the precise area communication letter have been incorporated in the Mining Plan. Therefore, the draft mining plan is hereby approved subject to the following conditions.

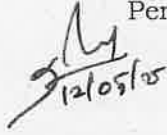
- i. That the Mining Plan is approved without prejudice to any other laws applicable to the quarry area from time to time whether made by the Central Government, State Government or any other authority.
- ii. That the approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Regulations and Development) Amendment Act 2015 or Mineral (other than Atomic and Hydrocarbon Energy Minerals) concession Rules 2016, or Tamil Nadu Minor Mineral Concession Rules, 1959 or any other laws including Forest (Conservation) Act 1980, Forest Conservation Rule, 1981, Environment Protection Act, 1980 and the rules made there under.
- iii. That the Mining plan is approved without prejudice to any other order or directions from any court of competent jurisdiction.
- iv. That the approval of Mining Plan does not confer any rights for the renewal of quarry lease.
- v. The approval is valid up to the subsistence of the lease period only.

**Encl:** 2 copies of approved Mining Plan.

  
Assistant Director,  
Geology and Mining,  
Perambalur.

Copy to:

1. The Chairman,  
SEIAA Level Environment Impact Assessment Authority,  
PanagalMaligai,  
Saidapet, Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.

  
12/05/18



# **ANNEXURE-3**

From

Thiru D.Bernard, M.Sc.,  
Assistant Director,  
Dept of Geology and Mining,  
Perambalur.

To

M/s.Chozha Groups,  
Old No.1/85, New No.4/155,  
Mariyammankovil Street,  
Eruthukaranpatti, Rajaji Nagar,  
Ariyalur – 621 713.

**Rc.No.110/G&M/2025**      **Dated:12.05.2025**

Sub: Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands -M/s. Chozha Groups, quoted highest Bid amount (H1) for the quarry in S.F.No.27/1A (Block -2), OAE of 1.80.0 hectare in Elambalur Village, Perambalur Taluk – Declared as H1 bidder – H1 Bid Amount remitted – Precise Area Communicated – Draft Mining Plan submitted for approval – Details of quarries situated within 500 mts radial distance requested – furnished - Reg.

- Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024.
  2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
  3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated:28.03.2025 &
  4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.110/G&M/2025, dated 28.04.2025.
  5. M/s. Chozha Groups, letter dated. 08.05.2025.

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The applicant M/s. Chozha Groups, Perambalur in the reference 5<sup>th</sup> cited has requested to provide the details of quarries situated within 500 mts radius distance from the proposed lease area.

Hence the details of existing quarries situated within 500 mts radial distance from the subject area are furnished as follows,

**1)Existing quarries:**

| Sl. No | Name of the Owner                                                                                                                                    | Taluk / Village          | S.F.Nos            | Extent | Rc.No.                                       | Lease Period                   |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|--------|----------------------------------------------|--------------------------------|
| 1      | Thiru.A.Abner<br>Maximus Fernando,<br>S/o. Armstrong<br>Fernando, No.1/766,<br>Chandiragiri Street,<br>Pamban,<br>Ramanathapuram<br>District-623 521 | Perambalur<br>/Elambalur | 27/1A<br>(Block-9) | 1.00.0 | R.C.No.138/G&<br>M/2019 dated:<br>03.02.2021 | 15.02.2021<br>to<br>14.02.2026 |

|   |                                                                                                                              |                          |       |        |                                             |                                |
|---|------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------|---------------------------------------------|--------------------------------|
| 2 | Thiru.M.Kumar,<br>S/o.Muthuasamy,<br>No.285, Sivan Kovil<br>Back Side,<br>ElambalurTaluk,<br>Perambalur District-<br>621 212 | Perambalur<br>/Elambalur | 27/1A | 1.00.0 | R.C.No.137/G&<br>M/2019 dated<br>18.06.2021 | 21.06.2021<br>to<br>20.06.2026 |
|---|------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|--------|---------------------------------------------|--------------------------------|

## **2)Proposed quarries:**

| Sl. No | Name of the Owner                                                                                                                             | Taluk / Village          | S.F.Nos.             | Extent | Lease Period | Remarks               |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|--------|--------------|-----------------------|
| 1      | M/s.Chozha Groups,<br>Old No.1/85, New<br>No.4/155,<br>Mariyamankovil<br>Street,<br>Eruthukaranpatti,<br>Rajaji Nagar,<br>Ariyalur - 621 713. | Perambalur/<br>Elambalur | 27/1A<br>(Block -2), | 1.80.0 | -            | Instant<br>Proposal   |
| 2      | M/s. Elangovan Stone<br>Crusher<br>1/154, East Street,<br>Somandapudur,<br>Esanai,<br>Perambalur - 621219                                     | Perambalur/<br>Elambalur | 27/1A<br>(Block-3)   | 2.50.0 | -            | Presently<br>Proposed |
| 3      | M/s. K.C.R<br>Bluemetal,<br>No.285, Sivan Kovil<br>Back Side,<br>Elambalur Taluk,<br>Perambalur<br>District-621 212                           | Perambalur/<br>Elambalur | 27/1A<br>(Block-1)   | 1.20.0 | -            | Presently<br>Proposed |

## **3) Expired quarries**

| Sl. No | Name of the Owner | Taluk / Village | S.F.Nos. | Extent | Lease Period | Remarks |
|--------|-------------------|-----------------|----------|--------|--------------|---------|
| 1      | Nil               |                 |          |        |              |         |

## **4) Abandoned quarries:**

| Sl. No | Name of the Owner | Taluk / Village | S.F.Nos. | Extent | Lease period | Remarks |
|--------|-------------------|-----------------|----------|--------|--------------|---------|
| 1      | Nil               |                 |          |        |              |         |

*D. Ber...*  
12/05/25  
Assistant Director,  
Geology and Mining,  
Perambalur.

*do*  
12/5/16