

BRIEF SUMMARY OF THE PROJECT

The proposal of **M/s. J.R Granites (P) Limited** for Granite mining with proposed production peak capacity of **6216 m³** of ROM per annum in mine lease area of 1.620 Ha at Sy.No. 89/1, 95/1(P), 95/2(P) & 95/3(P). The mine lease area is located at village – Kotamakanapalli, Mandal – Gudupalli, Chittoor District, Andhra Pradesh. The topography of the area is gently elevated towards N&W and sloping towards S&E direction. The highest elevation of the lease area is at +706m AMSL whereas the lowest elevation is +686m AMSL. The lease area falls between latitude 12°41'33.95" N to 12°41'39.00" N and Longitude from 78°13'32.43" E to 78° 13'37.80" E and falls in Survey of India Toposheet No. 57L/2. The entire area is a Government barren land.

Though the lease area is <5 Ha, this project falls under category 'A' because of inter-state boundary which is located within 5 km radius (Andhra Pradesh – Tamil Nadu is located at a distance of 0.61 km) as per the Amended EIA Notification, 2006, S.O. 1599 (E) dated 25th June, 2014.

In addition to this proposed lease area of 1.620 Ha, **M/s. J.R Granites (P) Limited** are also having 3 leases over an extent of 0.850 Ha, 4.846 Ha & 1.818 Ha within the 500m radius of the lease area. Besides, there are other quarry lease falling within the 500m radius such as Quarry of Rathna minerals (1.900 Ha.), Quarry of Sunil Kumar (0.608 Ha.), Quarry of V.M.S. Granites (1.000 Ha.) & Quarry of J. Venkatesh Babu (1.000 Ha.). Thus total extent of existing operating mines & proposed mines falling within the 500m radius of the lease area including the present proposed lease is <25 Ha only (**13.642 Ha**). In this regard, certificate is obtained from Assistant Director of Mines and Geology, Palamaner, Chittoor District.

M/s. J.R. Granites (P) Limited, Managing Director, **Sri. M. Ramamurthy** was accorded permission for Transfer of Quarry Lease for Black Granite over an extent of **1.620 Ha** in Sy.Nos.89/1, 95/1(P), 95/2(P) & 95/3(P) held by M/S. Tirumala Minerals, Managing Partner, Sri. K. Venkatesh by the Director of Mines and Geology, Hyderabad for the un-expired portion of lease period i.e., up to 11.03.2032, subject to the condition that the transferee shall submit Environmental Clearance vide proceedings No.3970/R4-1/2015, dated 10.06.2015 of DM&G, Hyderabad under Rule 12 (5) (h) (viii) of Andhra Pradesh Minor Mineral Rules (APMMC), 1966.



Brief Summary for Granite mine of M/s. J.R. Granites (P) Limited (Extent – 1.620 Ha) at Sy. No. 89/1, 95/1(P), 95/2(P) & 95/3(P) of Kotamakanapalli village, Gudupalli mandal, Chittoor district, Andhra Pradesh.

The mining plan has been prepared as per guidelines laid down in the Granite Conservation and Development Rules (GCDR), 1999 & APMMC, 1966 etc., and got approval from Department of Mines & Geology vide their letter no. 3826/MP-PLMR/2015 dated: 31.10.2015 over an extent of 1.620 Ha for peak production capacity of 6216 m³ of ROM per annum.

The project site is approachable from Kuppam to Veapanapalli road - 17 km milestone which is located 1.5 km (N) of the lease area. The nearest town is Kuppam located at a distance of 18 km – NE (by road). The nearest Highway NH-7 (Bangalore to Kanyakumari) located 15 km - SW & NH-219 (Krishnagiri-Palamaner) at 11 km - E. The nearest railway station Kuppam is about 18 km - NE (by road). Nearest Airport is Bangalore located 75 km - NW away (by road).

The lease area does not include any forest lands. No ecologically sensitive features like national parks, biospheres, sanctuaries, elephant corridors, Tiger reserves, flight paths of migrating fauna, etc., occur in core areas of the project. The area does not come under CRZ category.

There are no habitation within 300 m from the lease area. In the 10 km of buffer zone the water bodies Nachikuppam Ar – 6.6 km (W), Veppanapalli nadi – 3.1 km (W), the Reserve Forests Maharajagadai RF – 1.2 km (E), Mallappakonda Betraya Swami RF – 2.2 km (NE), Naralapalli RF – 1.0 km (SE), Kamsandra RF – 7.6 km (N) are there.

Open cast method of mining is carried out in this mine by semi mechanization by using compressor operated jack hammer drills, excavators, and dumper etc., Close spaced drilling of 0.2m was adopted along a straight line and charged with low explosives to avoid feather cracks. Transportation will be made by trucks to dispatching point. Granite benches will be formed to a height of 5-6m and width not less than 10m for movement of machineries and slope shall be vertical for dimensional cutting of granite blocks.

There is one pit in the lease area. Working operation takes place in this pit area during the past three years. The total Geological reserves including existing pit area in the applied area are estimated to be 150123 m³ (ROM). The mineable reserves are calculated after leaving the minerals blocked due to safety zone, formation of benches and depth of mining. Out of the total ROM available for mining lease of 150123 m³ about 20 % of the material (i.e 30025 m³) is expected to be saleable. Total Mineable Reserves in mine area is estimated to be 29055 m³. The life of the mine at production rate of 6216 m³ (ROM) per year works out to 24 years. There



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is no overburden up on the deposit on northern side, but in southern side there is some soil capping, weathered and bouldered granite. Rock wastage is expected to be 80% of the ROM. Total Mineral waste available in mine area is 116220 m³.

Conceptual mining plan is prepared with an object of long term systematic development of benches; lay outs, selection of permanent ultimate pit limit, depth of mining and ultimate pit, selection of sites for construction of infrastructure, etc., The ultimate pit size is designed based on certain practical parameters such as economical depth of mining, safety zones, permissible area, etc.

Initially it is proposed to quarry on the western side of existing pit up to the planned depth. The waste generated will be dumped in the south western side area selected for dump yard. Then the mining operation will be carried further towards the eastern direction till the eastern mine periphery. Then the quarrying operations will be towards the western part. Once sufficient void is created in the eastern side, the entire waste generated subsequently will be simultaneously backfilled into this mined out void.

Ultimately, Out of 0.874 Ha of mined out void about 0.428 Ha will be backfilled and reclaimed with vegetation while the remaining 0.446 Ha will be left as water body. The rain water falling in the quarry will be harvested up to +700 m AMSL. This pit will act as a settling pond to prevent solids escaping along with discharge, before outlet etc. Besides, it is also suggested to construct a settlement pond on the western side so that the water can be diverted into this pond. Clear supernatant water after settling can be let out of this pond after passing through settling traps.

Green belt / plantation will be carried out all around the lease area in the safety zone. All efforts will be made to spread top soil and reclaim back the backfilled mined out area and external dump area with greenery.

Total manpower required will be 34 on direct basis. Indirectly more than 100 persons can derive benefits in allied services like logistics, polishing, loading / unloading, repair works, trading etc.

The total water requirement will be about 5.5 KLD comprising 1.5 KLD for domestic purpose and 4.0 KLD will be for dust suppression and green belt development etc. The source of water will be met from the bore well opened in the adjacent quarry site & adjacent areas.



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The total project capital cost is expected to be Rs. 90 Lakhs 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.

In short, the working mining project will benefit this region in the fields of potential employment opportunities, improved per capita income for local people, improved social welfare facilities like infrastructural build-up, etc.

A meticulously well planned Environmental Management Plan, with various programme schedules and timely execution objectives will ensure that the future environmental quality in the area will be maintained within statutory limits.

With proper environmental management strategy, it is possible that industrial growth, if properly planned with all environmental concerns and appropriate remedial measures can go a long way to improve life pattern and living conditions of the local community around the project.

In view of above factors, the proposed project is worthy of approval for improving the social, physical and financial status of the region, the state and the country as a whole.

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