



Field Transect: SR019, Resource Survey for Dimension Stone Granite Deposits in Granulitic Terrain of Tamil Nadu, India

Geological Significance:

- In modern days export quality Dimension Stone Granite Deposits (DSGD) plays a vital role in the building sector and monument industry. As a valuable foreign exchange earner to the country, the resource identification of DSGD becomes all the more essential. The field trip focusses on the resource survey for DSGD in different parts of Tamil Nadu, to bring out the distribution of various lithounits and their equivalent commercial grade, granite landforms and its suitability on dimension stone quarrying aspects, techno-economic considerations and commercial viability studies on individual outcrops, structural characteristics and laboratory studies on commercial evaluation of individual rock type, marketability and assessment of their status in the international market.
- The black granite deposits (dyke rocks) are restricted to the northern part of Tamil Nadu. Pink augen gneiss and leptynite are restricted to Madurai Terrane and Kanyakumari Suture Zone while it is scarce in other areas. Pink migmatite / granite gneiss of Paradiso and Juparana are restricted to Kollegal Krishnagiri Terrain and Madurai Terrane. While white granite occurs in very limited extent, the pink granite and pink pegmatoidal granite occur as a number of small bodies distributed throughout the State. Charnockite is one of the predominant rock types spread all over the State of Tamil Nadu. However, the commercial grade Olive / Sea Green, Tropical Green and Blue Multy derived from charnockite are restricted.

International Attraction:

- ✓ Vast granulitic terrain contributes to innumerable commercial granite varieties of Dimension Stone Granite Deposits (DSGD) in Tamil Nadu.
- ✓ The pivotal role played by geological features like fold/fault/shears and joints in granite quarry operations and unique technique for tackling these adverse geological features for fixing up of quarry operations.
- ✓ Visit to quarry site of world famous Kunnam Black equivalent to Ebony black of Sweden and unique varieties of Paradiso, Thippu/ Melur/Kashmir white, Colombo Juprana, Gibly, Viyarah, Pink Multy, Rosa verde, Raw silk, English Teak etc.

Duration: 4 Days

Date of Excursion: Post Congress

Max. Participants: 20

GEOTOURIST SITES:



Srirangam Temple, biggest tower of Asia, Tiruchirapalli

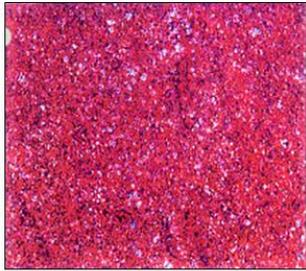


Rock cut sculptures in Sithannavasal



Sithannavasal rock cut cave, Pudukottai dist., Tamil Nadu

Geological Field Photographs:



Tomato/Chilly Red



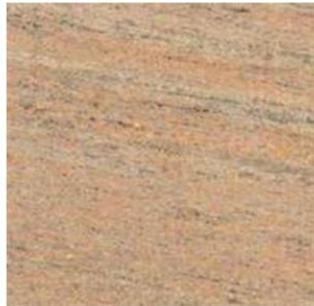
Raw Silk



Kashmir White



Tiger Skin



English Teak



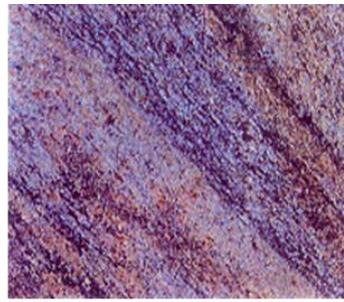
Vanchi Pink



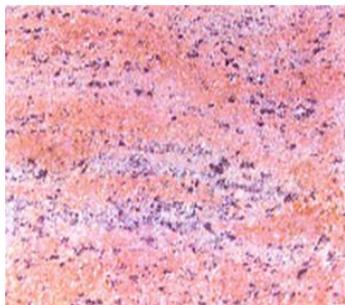
Colombo Juprana



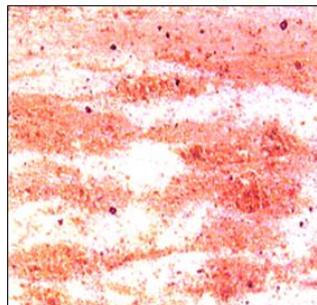
Lady dream



Virarah



Gibli



Rosewood

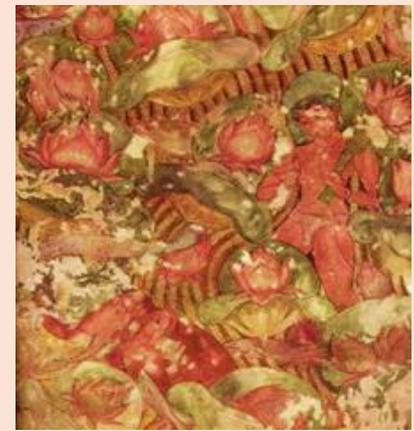


Ivory Pearl

GEOTOURIST SITES



1000 Pillars, Srirangam Temple



Ancient herbal painting in
Sithannavasal rock cut cave



Meenakshi Amman Temple,
Madurai