PROJECT REPORT OF SMT. J.C. VIJAYA, TADIPATRI, APPLIED QUARRY LEASE OVER AN EXTENT OF 1.95 HA FOR BARYTES IN SY. NO. 1/P OF ELLUTLA VILLAGE, PUTLUR MANDAL, ANANTHAPURAM DISTRICT, IN COMPARTMENT NO 558 OF ELLUTLA R.F., ANANTHAPURAM RANGE & DIVISION, ANDHRA PRADESH STATE.

1.0 INTRODUCTION :

Smt. J.C.Vijaya, Tadipatri applied a quarry lease for Barytes over an extent of 1.95 Ha in Sy. No. 1/P of Ellutla Village, Putlur Mandal, Ananthapuramu District, Andhra Pradesh State. The entire applied area falls in Compartment No 558 of Ellutla R.F., Ananthapuramu Range & Division, Andhra Pradesh State. The project proposes to produce good Barytes. The Barytes in this area is of good quality & suitable. An area of 1.95 Ha is the minimum area identified with in area for mining & connected activities so as to preserve the forest and its flora and fauna nearly intact. Since the minimum area of 1.95 Ha falls in forest land, this proposal is herewith submitted for diversion of forest land for mining activity under section 2 of Forest Conservation Act 1980.

2.0 NAME OF THE APPLICANT WITH COMPLETE ADDRESS:-

Smt.J.C. VIJAYA
15/1256, Sanjeeva Nagar,
Tadipatri.
Ananthapuramu Dist., Andhra Pradesh

3.0 PROJECT LOCATION :

DETAILS OF THE AREA :

Topo sheet No	:	57 F/14.
Latitude	:	14º 38 44.41" to 14º 38 47.73"
Longitude	:	77º 56' 52.24" to 77º 57' 00.42"
ML Area	:	1.95 Ha.
Owner ship	:	Ellutla R.F.,
Village	:	Ellutla.
Range	:	Ananthapuramu Range.
District	:	Ananthapuramu
State	:	Andhra Pradesh

The Location cum Key Plan is enclosed vide Plate No. 1. Applied Sketch is enclosed vide Plate No.2.

4.0 PHYSIOGRAPHY :

The Applied area covers part of the Ellutla R.F. hill range. The run of the hill range is North-South. The highest and lowest elevations of the area are 386m RL & 378 mRL respectively. The rainwater from the area is coursed to drainage nallah which drains leads towards NE direction. The vegetation around the area is open mixed jungle type and does not have timber yielding varieties with in the area no growth is found. A Location cum Key Plan is enclosed to show the physiographic of the area. (Plate No.1)

5.0 GEOLOGY & RESERVES : The applied area is a part of Cuddapah basin, exposes different lithounits namely dolomites, basic intrusion Barytes belonging to the Papaghani group of Vempalle formations which are overlying the Chitravati group of rocks. The lithological succession of the area given below :

Soil cover
Barytes
Basic Flow
Quartzite pebbles

BASIC FLOW :

Flow comprised of basic rock which is hard and massive & exhibits black to brown colour. At places it also exhibits greenish colour. Flow consists of dark coloured minerals like feldspar and pyroxenes. Serpentine mineral is also seen at places. Flow has been intruded into the earlier Cuddapah formations & later has given place for Barytes mineralization. Attitude of flow is along N 62 W S62 E. Flow has developed three sets of joints, namely, strike joints parallel to the strike direction of the formation dip joints having vertical joints. These sets of joints can be seen in the valley where flow has developed step like outcrop due to erosion action of water.

BARYTES : Barytes is in the form of thin vein found in basic flow and have trend along N62 W - S 62 E. Barytes is crystalline, dense, soft, translucent mineral exhibits off and snow white colour. It also exhibits cleavages and even fractures. Mineralization of Barytes is due to the action of solution. The sulphur is leashed out from the earlier dolomitic limestone & also metasomatic hydrothermal replacement took place.

In the area there is one vein in strike direction N 62 W - S 62 E & dipping S 28 & are exposed for a length of about 130 m along strike direction. Barytes zone is seen intruded into the basic flow in the area. Details of the Barytes exposed within the old workings is as shown in the land use Plan.

6.0 MINING :

The deposit of Barytes shall be mined by Underground method. The basic operations involved are The mining area will be taking into consideration all the parameters of the ore body and envisaged conceptual mining plan, mine is worked with conventional Underground method of mining, forming shaft sinking, incline haulages and levels. Mode of mining is Manual Underground method.

7.0 MINING AND TRANSPORTATION BARYTES ORE :

Mining will be done by Underground method to achieve this, operations like drilling, blasting, manual sizing & sorting, loading of waste rock and sub-grade mineral at the predetermined. The ore part shall be loaded manually in to tippers to avoid contamination. 10 tonner Tipper will be transport the mined mineral to the various destination.