

#### **PROCEEDINGS:**

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# A NOTE ON MINERAL WEALTH OF CUDDAPAH DISTRICT

# M. Ramachandra Reddy Mining Geologist, Puivendula-516390, Cuddapah District, AP

# INTRODUCTION

The Cuddapah District (Area 15,380 Sq.Km) stretches from the Seshachalam Range of Parnapalli – Vempalli area to the Velikonda Range in the east, and from 20Kms south of Giddalur to near Tirumala in the south-east. Geologically the district is occupied by the precambrain sedimentary **formation** f the Cuddapah Super Group.

Mineral Association: The Cuddapah District abunds in a variety of mineral deposits, some of which are unique in nature like that of chrysotile, asbestos, barytes, uranium.

### Status of various minerals

### **Chrysotile Asbestos:**

The best variety of Chrysotile asbestos occurs at Brahmanapalli, Ippatla, Lingala. Velidandla in the fractured portion of the serpentinised dolomites. Present day active mines are very few due to slum in asbestos marketing and the Government of India has ordered that no mining lease and renewals for asbestos should be granted a it was apprehended the working of asbestos creates health hazards.

#### **Barites Bedded Type:**

The barites deposits occur near Mangampet in the Rajampet taluk of the District. This deposit has attained international prominence owing to its uniqueness n the form of Volcanogenic bedded deposits and its vast reserves at one place.

## Vein Type:

Superior grade (Snow White, White etc,) of barite osilicones.ccurs at Vemula, Kothapalli, Thalapalli, Bakkannagaripalli, Meedipentla, Tangedupalli in the sheared Vempali dolomites associated with dolorites.

## **Uranium:**

Two types of uranium mineralization occurs in the south-western part of Cuddapah basin,viz, strata bound type hosted by impure dolomites of the Vempalli formation of the Papaghni group and structurally controlled types hosted by deformed basement granitoid. The carbonated-hosted type occurs over a 140 km long belt from Reddipalli in the west o Meddimadugu in the east with promising mineralization at Thummalapalli, Rachakuntapalli and Giddankipalli. It is sandwiched between a lower massive limestone



and upper shale and chert lime stones. The mineralised carbonate rock is a stromatolite bearing siliceous, calcitic dolomites associated with other Impure dolomites, quartzites, chert phyllite, conglomerate and intrusive dolomite and basalt.

## Limestones:

Massive or flaggy grade limestones belonging to Narji formations in and around Yerraguntla,Kamalapuram and jammalamudugu. High grade limestone occurs in the district which finds use in the manufacture of calcium carbide, Calcium oxide, hydrated lime and also in paper and steel industry

## **Dolomite:**

Extensive beds of dolomites in vast areas in the district. Good grade of dolomite serpentine of variegated colours are used in the manufacture of mosaic chips.B, A Grade and glass grade occur in the district.

### Clays :

Deposits of clays are found to occur at several places in the Cuddapah District, though only a few of them of could be considered to be of economic importance.