

**GOVERNMENT OF INDIA
MINES
LOK SABHA**

UNSTARRED QUESTION NO:215
ANSWERED ON:25.07.2006
SATELLITE SURVEY OF MINES
Pathak Shri Brajesh

Will the Minister of MINES be pleased to state:

- (a) whether satellite survey and aerial photography are being used to identify and discover certain minerals in the country;
- (b) if so, the details thereof;
- (c) the details of minerals discovered so far State-wise and area-wise;
- (d) whether the Government proposes to use this technology for discovery of mineral mines in the country; and
- (e) if so, the details thereof ?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF MINES (DR. T. SUBBARAMI REDDY)

(a) to (b) : Yes, Sir. Satellite and aerial photography are being used for survey of minerals in the country. Satellite survey and aerial photography are essential components of remote sensing technique which is an applied tool for finding mineral deposits and is used during the initial stage of mineral exploration coupled with other exploration techniques on ground for exploration of mineral deposits.

(c) : As per report of Geological Survey of India (GSI) based on the interpretation and integration of satellite data and aerogeophysical data followed by ground survey and regional exploration following is the resource potential for basemetal resources in the States of Rajasthan, Maharashtra, Jharkhand, Karnataka, Bihar and Andhra Pradesh :

State Commodity
Location
Potential Resources Grade(%)
(million tonnes)

Rajasthan
Copper
Ajitsagar to Chinchiroli
[East of Main Khetri belt],
Extension of Madan Kudan.

53.572.35

0.75 - 2.2 Cu

0.37 Cu

Lead & Zinc ore

Banera - Sethuria,
Kayar Deposit

43.74

1.0 - 13.83 Pb + Zn Gold ore

0.13 to 0.22

2.88 g/t at

0.5 g/t cutoff

3.34 g/t at 1.0 g/t cut off

Maharashtra

Copper and Kolari Deposit 1.99 0.76 Cu

Zinc ore

1.97
2.0 Zn

State
Commodity
Location
Potential Resources Grade (%)
(million tonnes)

Karnataka
Copper ore
Aladahalli Deposit

3.83
0.74 CuJharkhand
Copper and
Singhbhum Belt
1.42

1.23 to 1.3 Cu + 0.21 Ni
Nickel ore

Andhra Pradesh
Lead & Zinc ore
Gollapalle-Varikunta-

1.42

5.78 Pb + Zn
Vontimitta area

(d) & (e) : Yes, Sir. GSI, which is the premier Government organization for undertaking survey of minerals will continue the use of remote sensing techniques in mineral exploration. GSI will use this technique for Kimberlite search in Gulbarga, Raichur, Bellary districts of Karnataka; for Gold investigation in Sausal-Hindung sector, Singhbhum [West] district of Jharkhand and field geological appraisal in coalfield area around Bhaga-Marthmaur area, Shadol district of Madhya Pradesh.