

Mineral Deposits and Occurrences, Uttarakhand

BARYTES

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Dehradun	Koti	73% to 88% BaSO ₄	Estimated 5,000 tonnes Inferred 20,000 tonnes

BASE METALS

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Almora	Shishakhani prospect a. Shisha khani (Lead Prospect) b. Channapani (Copper Prospect) c. Balaldeo (Lead and Copper prospect)	1.59 T.M.C.	0.55 million tonnes
Chamoli	Barmatiya	0.46% to 2.24% Cu 0.8% to 2.64% Pb	
	Dhanpur	0.10% to 20% cu 0.8% to 2.64% Pb	
Chamoli	Malari	0.20% to 2.20% Cu 100-1000ppm Tungsten 0.2 to 12.5 ppm Au	
	Mohan Khal	0.20% to 1.65% Cu Uranium mineralization is also there	
	Pokhri	0.20% to 1.60% Cu	
	Dobri	0.78% Cu, 1.61% Pb (Groove sample) 0.40% to 0.68% Cu (Surface sample)	

	Lameri	0.35% to 2.12% Cu	
	Langasu	0.08% to 0.16% Cu	
	Ratura	0.10% to 0.30% Cu 0.032% Pb	
Dehradun	Kwanu (Pb, Zn-Cu belt) Chamari deposit	4.90% Zn 2.68% Pb 0.37% Cu 8.13 TMC	0.39 million tonnes
	Amtiargad	0.15% to 29.8% Pb 0.10% to 22.80% Zn 6.75% TMC	1.41 million tonnes
	Shallukhan Atoll zone		
Dehradun	Atoll area zone		
	Shahastradhara prospect	0.28% to 1.7% Zn 6.8% Pb Silver 10 ppm (Ag)	
Nainital	Amritpur	0.15% to 2.80% Cu 0.22% to 1.90% Pb	
	Gal pakot	0.48% to 3.26% Cu 50ppb to 0.25 ppm Au Geochemical survey 10 ppm to 0.15% Cu 10 ppm to 95 ppm Zn 10 ppm to 290 ppm Pb	
	Khansyun	0.064% to 0.08% Cu	
Pauri Garhwal	Bergana	51% to 52% Pb 0.09% to 0.10% Ag 0.03% to 0.05% Zn	
	Agrorah Kunet	0.10% to 0.35% Cu	
Tehri Garhwal	Asenu	0.29% to 2.66% Cu	
	Bagori	0.11% to 73% Cu	
	Dharkot	0.45% to 0.96% Cu	
Pithoragarh	Askot	2.32% Cu 2.64% Pb 3.95% Zn	

	Baphilla	13.2 ppm Au 10 ppm to 200 ppm Ag 0.05% to 2.16% Cu 0.05% to 0.22% Pb 0.2% to 0.08% Zn	
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GYPSUM

District	Location	Reserve
<i>1</i>	<i>2</i>	<i>3</i>
Nainital	Between Dhapila and Sonarmera	37,503 tonnes
Pauri Garhwal	Kharari Chatti	158,503 tonnes
Tehri Garhwal	Garur Chatti area	106.658 tonnes
	Gugthani area	5080 tonnes
	Mahipur area	2032 tonnes
	Rangargaon	30481 tonnes
	Khemsar and Narander Nagar	

LIMESTONE

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Dehradun	Barkot-Nutiya Deposit	50% CaO 2% to 4% MgO	38.2 M.T.
	Lambidhar-Hatipaon Deposit	53% CaO 2% MgO 1% SiO ₂	7.0 M.T.
	Song Valley Deposit	53% CaO 49% CaO 44% CaO	6.5 M.T. 146.4 M.T. 254.5 M.T.
	Deoban-Bajmara area	45% to 46% CaO	478.43 M.T.
Pithoragarh	Dharchula Deposit	40% to 50%	178.43 M.T.
	Gangolihat Deposit	46.80% to 46.40% CaO 40.39% to 45.58% CaO	91.89 M.T. 2.16 M.T.
	Rorgaon Deposit	39.38% to 51.43% CaO	7.80 M.T.
Tehri Garhwal	Nagni	46% CaO 3% MgO 3% SiO ₂	Large Deposit Large Deposit Large Deposit

MARBLE

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Dehradun	Lambidhar Charpatti Kiar Kuli	53% CaO 1% MgO 1% SiO ₂ 28% CaO 19.21% MgO 1% SiO ₂	10.0 M.T. 3.0 M.T. 2.0 M.T.

PHOSPHORITE

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Dehradun and Tehri Garhwal	Maldevta Mabrana Dhurmala Kimo Jaikhal Bhusti	16.49% to 30% P ₂ O ₅	18 M.T.
Nainital	Baldiyakhan to Darim Khet	3.0% to 26% P ₂ O ₅	Minor occurrence

SILICA SAND

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Uttarkashi	Sathang-Deodhar Jarmola-Dharamandhar Malap ka Dhanda-Chantra Dhar	15 Km to 500 met 15 Km to 7 Km 15 Km	97 to 99.77% SiO ₂ 0.02% to 0.36% Fe ₂ O ₃

SOAPSTONE (Impure or low grade tale)

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Bageshwar	Birkhal Maulgar Surog	Within a radius of 25 Km	0.66 M.T.
Chamoli	Pindar-Kaliganga Valley Huyna Dwing Gulab Koti Ganasi Molta	Associated with Magnesite	3 Km X 1m. to 2 m.

	Irani Bhuni	Associated with Dolomite	
Pithoragarh	Bhardarigaon Bora Ag as	0.10% to 2.05% Cu 3.36% Cu 1.77% Cu	
	Ganai Kimkhet	0.10% to 0.16% Cu 0.35% to 0.71% CU 0.0g/t to 0.26 g/t Au	
	Phadyali Rain Agar Agar Barabesi Bano occurrence	0.08% to 0.20% Cu 0.10% to 2.18% Cu 0.10% to 0.25% Cu	
	Dugal Agar Kanoli ekhiva Melapani Mushgal	0.8% to 1.45% 0.25% to 2.38%	

GOLD (Primary Gold)

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Pithoragarh	Ralam Askot Chalthi Galakot	0.2 ppm to 12.5 ppm Au 1.0 ppm to 13.2 ppm 2.0 ppm to 5.0 ppm 3.050 ppm to 0.25 ppm	

PLACER GOLD (Geochemical)

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Pithoragarh	Bagwari Kainur Bungidhar		

GRAPHITE

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Almora	Kalimate Persai Sirav	5.86% C 94.12% DS W	
Pauri Garhwal	Thailisain		

	Kaprauli Garurchatti		
Nainital	Betalghat-Jaurasi	44% CaO 2 to 3% MgO 8% SiO ₂ 32 to 53% CaO 2% MgO	3.6 M.T. (Cement Grade) 10 M.T. 5.500 tonnes

MAGNESITE

District	Location	Quality	Reserve
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Almora	Agar Girechhina Deposit	38.13% to 43.22% MgO 5.78% CaO 1.58 to 4.20% SiO ₂ 2.21% to 3.02% Fe ₂ O ₃ 2.94 to 3.09 Sp. Gr.	3.48 M.T.
	Dewaldhar Deposit	38% MgO 30% to 4.38% MgO 2.99 to 43.01 Sp.Gr.	7.9 M.T.
	Kanda Massauli Deposit	39.67% to 44.50% MgO 0.49% to 4.81% CaO 2.67% SiO ₂ 1.45% R ₂ O ₃ 1.05% in soluble	6.7 M.T.
	Areapani Prospect Bhurgaon Prospect	42% to 4.43% MgO 2% to 3% CaO 0.88% to 1.72% SiO ₂	
	Channi Prospect	43.25% MgO 2.88% CaO 0.63% SiO ₂	
	Lahone valley	42.13% MgO 1.01% CaO 4.90% SiO ₂	
	Bauri occurrences		

(Source: GSI)