

STATE REVIEWS



# Indian Minerals Yearbook 2018

(Part- I)

57<sup>th</sup> Edition

STATE REVIEWS  
(Haryana)

(FINAL RELEASE)

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## HARYANA

### Mineral Resources

The State is the principal holder of country's resources of slate (85%), tin ore (64%), quartz-silica sand (42%) and quartzite (53%). The principal minerals that are found to occur in Haryana are **china clay** in Faridabad, Gurugram & Rewari districts; **limestone** in Ambala, Bhiwani, Mahendragarh & Panchkula districts; **quartz/silica sand** in Bhiwani, Faridabad, Gurugram & Mahendragarh districts; **quartzite** in Faridabad & Gurugram districts; and **slate** in Mahendragarh & Gurugram districts. Other minerals, such as, **barytes, calcite, feldspar & marble** occur in Mahendragarh district; **copper** in Bhiwani & Mahendragarh districts; **dolomite** in Ambala & Mahendragarh districts; **granite** in Bhiwani district; and **tin & tungsten** mineralisations in Tosham area of Bhiwani district have also been reported (Table-1).

### Exploration and Development

Mineral exploration activity was reported by GSI for copper & base metal in Mahendragarh & Bhiwani districts during 2017-18 in the State of Haryana (Table-2).

### Production

Sulphur (by-product) was the main mineral item reporting production in the State.

The value of minor minerals production was estimated at ` 35 crore for the year 2017-18 (Table-3).

### Mineral-based Industry

The present status of each Mineral-based Industry is not readily available. However, the important large and medium-scale Mineral-based Industries in the organised sector in the State are furnished in Table-4.

**Table-3 : Mineral Production in Haryana, 2015-16 to 2017-18  
(Excluding Atomic Minerals)**

(Value in `'000)

Mineral	Unit	2015-16			2016-17			2017-18 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
<b>All Minerals</b>		-		354770	-		354770	-	-	354770
Sulphur*	t	-	178688	-	-	190946	-	-	180431	-
Minor Minerals@		-	-	354770	-	-	354770	-	-	354770

*Note: The number of mines excludes minor minerals.*

*\*Recovered as by-product from fertilizer plant.*

*@ Figures for earlier years have been repeated as estimates because of non-receipt of data.*

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Table – 1: Reserves/Resources of Minerals as on 1.4.2015: Haryana

Mineral	Unit	Reserves						Remaining Resources						Total resources (A+B)		
		Proved		Probable		Total (A)	Feasibility	Pre-feasibility		Measured	Indicated	Inferred	Reconnaissance		Total (B)	
		STD 111	STD 121	STD 122	STD 211			STD 221	STD 222							STD 331
Barytes#	tonne	-	-	-	-	-	-	-	-	-	-	-	-	440	440	440
Calcite#	tonne	-	-	-	166900	-	183900	-	-	-	-	-	-	-	350800	350800
China clay#	'000 tonnes	-	-	-	2367	789	3377	13	34	5485	-	-	-	-	12065	12065
Copper																
Ore	'000 tonnes	-	-	-	-	2230	-	-	-	-	30678	-	-	-	32908	32908
Metal	'000 tonnes	-	-	-	-	11.82	-	-	-	-	101.8	-	-	-	113.62	113.62
Dolomite#	'000 tonnes	-	-	-	1692	6037	3722	-	-	16183	-	-	-	-	27633	27633
Feldspar#	tonne	-	-	-	-	-	-	-	-	72164	-	-	-	-	72164	72164
Granite##																
(Dim. Stone)	'000 cu m	-	-	-	-	-	-	-	-	-	34000	-	-	-	34000	34000
Gypsum	'000 tonnes	-	-	-	-	-	-	-	-	-	-	2180	-	-	2180	2180
Limestone	'00 tonnes	-	-	-	1425	15507	3382	-	2200	52163	-	-	-	-	74677	74677
Marble##	'000 tonnes	-	-	-	-	1234	1602	-	-	19492	-	-	-	-	22328	22328
Quartzite#	'000 tonnes	-	-	-	50751	118056	116686	113902	124458	360335	-	-	-	-	884188	884188
Quartz-																
Silica sand#	'000 tonnes	-	-	-	35553	247695	186475	886	642	1182400	-	-	-	-	1653650	1653650
Slate#	'000 tonnes	19510	-	-	-	-	-	-	-	-	-	-	-	-	-	19510
Tin																
Ore	tonne	-	-	-	22580000	-	31330000	-	-	-	-	-	-	-	53910000	53910000
Metal	tonne	-	-	-	32187.80	-	54032.80	-	-	-	-	-	-	-	86220.60	86220.60
Tungsten																
Ore	tonne	-	-	-	2230000	-	-	-	-	-	-	-	-	-	2230000	2230000
Contained																
WO <sub>3</sub>	tonne	-	-	-	3568	-	-	-	-	-	-	-	-	-	3568	3568

Figures rounded off

# Declared as Minor Mineral vide Gazette Notification dated 10.02.2015.

## Minor minerals before Gazette Notification dated 10.02.2015.

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Table – 2 : Details of Exploration Activities in Haryana, 2017-18

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>GSI</b>							
<b>Multi-metal</b>							
Bhiwani	Around Khanak- Ratera-Kirawar- Jamalpur area	-	-	2	282.30	25	Reconnaissance survey (G-4) for multi-metal deposit have been carried out in this block. The target was to intersect the geophysical causative body, which was estimated on the basis of magnetic and SP anomaly at a vertical depth of 350 m $\pm$ 10. Borehole HBNT-1 was planned to intersect geophysical anomaly. The borehole was drilled up to a depth of 167 m, but due to continuous/persistent drilling problems the borehole was abandoned at a depth of 167 m within alluvium (Quaternary sediments). The scout borehole HBNT-01 was again drilled as borehole HBNT-01A. Again, due to continuous/persistent drilling problems borehole had been abandoned at the depth of 282.30 m.
<b>Copper</b>							
Mahendragarh	North of Golwa	1:2000	0.51	-	3429.40	-	General Exploration for Copper mineralisation in extended block, North of Golwa involved detailed mapping of 0.51 sq km on 1:2000 scale. The calcareous quartz-biotite schist is host of copper sulphide mineralisation. A total of 3429.40 m of drilling were carried out. Three levels of boreholes have been drilled. Based on the analytical data, the strike length of copper sulphide mineralisation is approx. 800 m with average width varying between 8 m to 22 m. The content of copper varied between 0.3 and 0.42%. The principal ore minerals are chalcopyrite, bornite, chalcocite, covellite and pyrite. The mineralisation occurs as disseminations, thin veinlets along foliation/fracture plane, stringers and fracture fillings.
Mahendragarh	South of Golwa extension	1:2000	0.50	5	538.40	120	General exploration for copper mineralisation involved detailed mapping of 0.50 sq. km on 1:2000 scale. The mineralisation is hosted

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Table-2 (Contd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>Copper and Associated Base Metals</b>							by calcareous quartz-biotite schist. A total of 538.40 m drilling in five boreholes were carried out. Study of drill hole cores showed that the sulphide mineralisation is in the form of specks, dissemination and fracture filling of chalcopyrite, bornite, covellite, pyrrhotite and pyrite, which are mostly associated with thin veins/veinlet of calcite and rarely with quartz veins. Visual estimation of copper mineralisation from various boreholes ranged from 0.01% to 0.2%. A total of 120 channel samples in eight channel lines of 1.00 m to 16.00 m length each were collected and the average grade of Cu mineralisation ranged from 0.02% to 0.4% Cu. About 30 pitting and trenching samples showed significant value of copper mineralisation.
Mahendragarh	Kalba- Thanawas- Nayan Area	1:12500	130	-	-	-	Reconnaissance Survey for copper and Associated base metals mineralisation was taken up by large-scale mapping of 130 sq km on 1:12500 scale. The investigated area was observed to be mainly occupied by the tremolite-bearing impure marble, massive phyllite, interbedded phyllite & quartzite unit, interbedded phyllite and ash (pyrite-bearing) bed. The veins were about 0.1 m to 2 m in thickness. The major sulphides seen in the area are pyrite, bornite, pyrrhotite and chalcopyrite. Geophysical Survey by Chargeability, Resistivity, Magnetic and SP methods was carried out in Kalba, Thanawas and Nayan areas and showed magnetic anomaly of -450 gamma to the north of tremolite-bearing impure marble and higher chargeability values in the south western corner near to the proximity of

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Table-2 (Concl'd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>Copper and Associated Base Metals</b>							interbedded phyllite and ash beds. The chemical analysis of 76 samples for Cu, Pb, Zn and Ag showed the highest value of Cu.
Mahendragarh Bhiwani	Narnaul, Raghunathpur, Dharsu, Bashirpur area	1:12500		-	-	-	Reconnaissance survey was taken up for copper and associated base metal mineralisation by geological mapping on 1:12500 scale. Major rock-types seen in the area which include bedded quartzite interlayered with amphibole marble, garnetiferous quartz- biotite schist, etc. are seen traversed by number of pegmatite bodies of varying dimensions as well as quartz, calcite veins. At two isolated hillocks near Raghunathpur, surface manifestations of mineralisation are found in the form of malachite stains, iron incrustations and rare dissemination of chalcopyrite, bornite, pyrite within the garnetiferous quartz-biotite schist and amphibole marble.

**Table – 4: Principal Mineral-based Industries  
in Haryana**

Industry/plant	Capacity (‘000 tpy)	Industry/plant	Capacity (‘000 tpy)
<b>Abrasives</b>		<b>Ceramic/Sanitaryware</b>	
Indian Abrasives, Faridabad.	0.6	Hindustan Sanitaryware & Industries Ltd, Bahadurgarh.	1.4
<b>Asbestos Products</b>		SPL Ltd, Bahadurgarh.	35000 (sq m/day)
Hyderabad Industries Ltd, Ballabgarh.	91.7	Somany Ceramics Ltd, Kassur, Distt Jhajjar.	17.13 (million sq. m)
<b>Cement</b>		<b>Chemical</b>	
CCI Ltd, Charkhi Dadri, Distt Bhiwani.	174	Oriental Carbon & Chemicals Ltd, Dharuhera, Distt Rewari.	55 (H <sub>2</sub> SO <sub>4</sub> ) 5 (sulphur)
Shree Cement (formerly unit of Jaypee Cement), Panipat (G).	1500	Bhalla Chemical Works Pvt Ltd, Ballabgarh.	10 (Zirconium derivatives) 5 (Zirconium silicate opacifiers)
J K Cement Ltd, Jharli, Distt Jhajjar (G).	1500		
J K Laxmi, Bijitpur, Distt Jhajjar (G).	1300		
UltraTech Cement, Panipat (G).	1300		
(Contd)		(Contd)	

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Table-4 (Contd)

Industry/plant	Capacity ('000 tpy)
Saint Gobain Gyproc India Ltd (formerly India Gypsum Ltd), Jind.	NA
Varun Electrode Pvt Ltd, Panipat.	1.5
<b>Fertilizer</b>	
NFL, Gohana Road, Panipat.	511.5 (Urea) 8.70 (S)
Kisan Phosphates Pvt Ltd, Gawar, Hisar.	132 (SSP)
Nitin Chemicals & Fertilizers Ltd, Rukri, Ambala.	20 (SSP)
<b>Iron &amp; Steel</b>	
Jindal Stainless Ltd, Hisar.	800 (stainless steel)
<b>Ferro alloys</b>	
Haryana Ferro Alloys Ltd,	2.5

(Contd)

Table-4 (Concl'd)

Industry/plant	Capacity ('000 tpy)
<b>Glass</b>	
Haryana Sheet Glass Ltd, Sevli, Distt Sonipat.	89.5
Hindustan National Glass & Industries Ltd, Ballabgarh.	690 TPD
<b>Petroleum Refinery</b>	
IOCL, Panipat.	15000
<b>Refractory</b>	
Bhaskar Refractories & SW Pipes (P) Ltd, Amar Nagar.	12

*G: Grinding Unit*

*Note: Data, not readily available for Fertilizer and Cement Industries on respective websites, is taken from Indian Fertilizer Scenario, FAI Statistics, and Survey of Cement Industry & Directory, respectively.*