

STATE REVIEWS



Indian Minerals Yearbook 2020

(Part- I)

59th Edition

STATE REVIEWS
(Haryana)

(ADVANCE 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, Gurgaon & Rewari districts; **limestone** in Ambala, Bhiwani, Mahendragarh & Panchkula districts; **quartz/silica sand** in Bhiwani, Faridabad, Gurgaon & Mahendragarh districts; **quartzite** in Faridabad & Gurgaon districts; and **slate** in Mahendragarh & Gurgaon districts. Other minerals, such as, **barytes, calcite, felspar & 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

Exploration activity was reported by the GSI in the State of Haryana during the year 2019-20 and is furnished in Table-3.

Production

Sulphur was the main mineral item reporting production in the State. The value of minor mineral's production is estimated as ₹ 172 crore for the year 2019-20. (Table-2).

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 : Details of Exploration Activities in Haryana, 2019-20

Agency/ Mineral/ District	Location Area/ Block	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI Copper Mahendragarh	In north of Bakrija (Sareli area)	-	-	-	-	-	Reconnaissance survey (G4) for Copper mineralisation in north of Bakrija (Sareli area), Mahendragarh District, Haryana was taken up with the objective to establish the strike extension of copper mineralisation north of Bakrija (Sareli area) in alluvial covered area using the available exploration and geophysical data. The area was found to expose rocks of Bayal-Panchnota Formation of Alwar Group belonging to Delhi Supergroup, post-Delhi intrusives and Quaternary sediments. Ore microscopic studies show presence of specks of disseminated chalcopyrite in amphibolite and banded amphibole marble-quartzite. Pyrites show rhythmic growth zoning. Surface indication of copper mineralisation was seen only in Ghatesar area, where two ancient mining pits were observed within the micaceous quartzite host rock. The analytical results of chip samples collected from the four walls of the pit showed copper values

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STATE REVIEWS

Table – 3 (concl'd)

Agency/ Mineral/ District	Location Area/ Block	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
							ranging from 895 ppm to 3,408 ppm with mean value of 1,989 ppm (n= 4). The results of BRS/trench/pitsamples showed Cu values ranging from <10 to 671 ppm.
REE & RM							
Mahendragarh	In Bayal pegmatite	1:12500	25	-	-	-	Reconnaissance survey (G4) for REE, RM in this area has been carried out by LSM. large scale mapping 25 sq km on 1:12500 scale was completed which was followed by 1 sq km of detailed mapping on 1:1000 scale. The rocks of the study area belonged to low to medium grade Middle Proterozoic rocks of Delhi Supergroup. The rock types mapped during the investigation mainly comprised quartzite interlayered with garnet-bearing mica schist, tremolite-actinolite schist, cummingtonite schist, amphibolite and calc silicates belonging to Bayal Panchnota Formation of Alwar Group of Delhi Supergroup. All lithology's are later intruded by pegmatite of Post Delhi Intrusive. The major pegmatite body was 3 km in total strike length and was 650 to 700 m wide. The total REE values in the received samples ranged from 13.18 to 746.36 ppm. The highest total REE value of 746.36 ppm was found in BRS-4 followed by 593.35 ppm in BRS-5 collected from pegmatite exposed to south of Village Panchnota. The values of Li, Cs have been received for 32 nos. of bed rock samples. The highest Li value of 41.93 ppm was observed in BRS-28 and Cs value of 8.99 ppm in BRS-24 collected from pegmatite near Village Bayal. In pitting/ trenching samples, total REE value ranged from 62.79 to 798 ppm. The highest total REE value of 798 ppm was obtained in sample no. BPT-60 from Pit no. 23. The chondrite normalised REE pattern plot of bedrock samples revealed two sets of samples of pegmatite that showed positive and negative europium anomaly respectively whereas pitting/trenching samples showed negative anomaly.
		1:1000	1.0	-	-	32	

STATE REVIEWS

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			STD122	STD211						
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	13.62	
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														
* * * ³	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.

STATE REVIEWS

**Table-2 : Mineral Production in Haryana, 2017-18 to 2019-20
(Excluding Atomic Minerals)**

(Value in ₹'000)

Mineral	Unit	2017-18			2018-19			2019-20 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
All Minerals				1718901			1718901			1718901
Sulphur [#]	t	-	180431	-	-	176755	-	-	170907	-
Minor Minerals [@]		-	-	1718901	-	-	1718901	-	-	1718901

Recovered as by-product from fertilizer plant.

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

Table - 4: Principal Mineral-based Industries

Industry/plant	Capacity ('000 tpy)
Asbestos Products	
Hyderabad Industries Ltd, Ballabgarh.	91.7
Cement	
Shree Cement (formerly, unit of Jaypee Cement), Panipat (G).	1500
J K Cement Ltd, Jharli, Distt Jhajjar (G).	1500
J K Laxmi, Bijitpur, Distt Jhajjar (G).	1300
UltraTech Cement, Panipat (G).	1300
UltraTech Cement, Jhajjar (G).	1600
Ceramic/Sanitaryware	
Hindustan Sanitaryware & Industries Ltd, Bahadurgarh.	1.4
SPL Ltd, Bahadurgarh.	35000 (sq m/day)
Somany Ceramics Ltd, Kassur, Distt Jhajjar.	10.4 (Mill sq m)
Chemical	
Oriental Carbon & Chemicals Ltd, Dharuhera, Distt Rewari.	28500
Bhalla Chemical Works Pvt Ltd, Ballabgarh.	10 (Zirconium derivatives) 5 (Zirconium silicate opacifiers)
Saint Gobain Gyproc India Ltd (formerly India Gypsum Ltd), Jind.	NA
S. B. Zircon Pvt. Ltd. Sikri, Ballabgarh	3 (Zirconium opacifiers)

(contd)

Table - 4 (concl'd)

Industry/plant	Capacity ('000 tpy)
Varun Electrode Pvt Ltd, Panipat.	3.6
Electrode	
Devay Udyog, Charkhi Dadri	0.40
Fertilizer	
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)
Iron & Steel	
Jindal Stainless Ltd, Hisar.	780 (stainless steel)
Ferrous Alloys	
Haryana Ferro Alloys Ltd,	2.5
Glass	
Haryana Sheet Glass Ltd, Sevli, Distt Sonapat.	89.5
Hindustan National Glass & Industries Ltd, Ballabgarh.	690 TPD
Petroleum Refinery	
IOCL, Panipat.	15000
Refractory	
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.