

STATE REVIEWS



Indian Minerals Yearbook 2017

(Part- I)

56th 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, 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

Mineral exploration activity was reported by GSI for copper & basemetal in Mahendragarh & Bhiwani districts during 2016-17 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 2016-17 (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, 2014-15 to 2016-17
(Excluding Atomic Minerals)**

(Value in `'000)

Mineral	Unit	2014-15			2015-16			2016-17 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
All Minerals		1		354967	-		354770	-		354770
Slate [#]	t	1	218	197	-	-	-	-	-	-
Sulphur [*]	t	-	168598	-	-	178688	-	190946	-	-
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.

Declared as Minor Mineral vide Gazette Notification dated 10.02.2015

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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						
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##															
(Dime. 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 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.

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Table – 2 : Details of Exploration Activities in Haryana, 2016-17

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Base metal							
Bhiwani	North and West of Tosham around Khanak -Ratera-Kirwar -Jamalpur area	1:12500	185	-	-	Mapping, Geophysical survey & Sampling.	G4 stage reconnaissance survey for multi-metal deposit, has been carried out in this area. Surface sampling carried out across the strike from the exposures of quartz feldspar porphyry and pink porphyritic granite. Bedrock samples were collected and analysed for Cu, Sn, W, Au, Ni, Co, Pb and Zn. Detailed geophysical investigation carried out over 73 line km for locating multi metal deposits in and around area. On the basis of the geophysical corroboration, probe for possible mineralisation at a vertical depth of 350 m with 10% variation has been recommended.
	North of Tosham hill	-	-	-	-	-	G2 stage exploration for multi-metal deposit in north of Tosham hill has been carried out. The mineralised zone stretches over 880 m strike length with individual band thickness varying from 2 m to 19 m has been explored in the area. The resources have been estimated to be 8.16 mt Tin at 0.21% Sn, 4.08 mt tungsten at 0.29% W and 18.10 mt copper at 0.38% Cu. Cobalt, which was not reported earlier in this mineral belt, has a resource of 0.23 mt with an average grade of 0.16%.
Copper							
Mahendragarh	North of Golwa	1:2000	0.30	13	2125.15	-	G2 stage general exploration for copper mineralisation in north of Golwa was taken up by detailed mapping. Drilling was carried out in seven first level boreholes, five second level boreholes & one third level boreholes over a cumulative strike length of 1000 m to intersect mineralisation zone at vertical depth of 60 m, 120 m & 180 m, respectively below the surface. It is

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Table-2 (Concl.)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
							observed that a single lode is intersected in all boreholes. The thickness of the zone varies from 3.2 m to 14.25 m. Total in situ resource estimated in the area is 1.75 million tonnes with 0.42% Cu by LVS method and 1.72 million tonnes with 0.42% Cu by CS method with 0.20% Cu off and 1.70 million tonnes with 0.42% Cu by CS method at 0.3% cut-off.
Mahendragarh	NNW of Isampur village	1:2000	1.00	5	961.95	180	During G2 stage preliminary exploration for copper mineralisation by detailed mapping was carried out along with 961.95 m drilling in five boreholes. A total of 180 nos. core samples from boreholes were analysed for Cu, Pb, Zn, Sn and W. Analytical results show - 20 to 1476 ppm Cu, 41 to 1413 ppm Zn, 20 to 1612 ppm Pb, 20 to 36 ppm Sn and 20 to 225 ppm W. Analytical results of four samples each of channel and pit samples showed <10 ppm Cu, <10 ppm Pb and 11-30 ppm Zn. No mineralised zones could be established on the surface.
	Gangutana Isampur village	1:2000	0.50	15	-	-	During G2 stage general exploration for copper mineralisation in south of Gangutana (Block-1 of Zone-A), has been carried out by detailed mapping along with drilling. On the basis of borehole data and chemical results, the four mineralised zones (with 0.2% cut-off of copper) have been identified viz. Zone-I ranging in thickness from 5.00 m to 26.5 m, Zone-II from 3.50 m to 24.50 m, Zone-III from 10.00 m to 30.00 m and Zone IV 14.00 m.

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Table – 4: Principal Mineral-based Industries in Haryana

Industry/plant	Capacity ('000 tpy)
Abrasives	
Indian Abrasives, Faridabad.	0.6
Asbestos Products	
Hyderabad Industries Ltd, Ballabgarh.	91.7
Cement	
CCI Ltd, Charkhi Dadri, Distt. Bhiwani.	174
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
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.	55 (H ₂ SO ₄) 5 (sulphur)
Bhalla Chemical Works Pvt Ltd, Ballabgarh.	10 (Zirconium derivatives) 5 (Zirconium silicate opacifiers)

(Contd.)

Table - 4 (Concltd.)

Industry/plant	Capacity ('000 tpy)
Saint Gobain Gyproc India Ltd (formerly India Gypsum Ltd), Jind.	NA
Varun Electrode Pvt Ltd, Panipat.	1.5
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.	800 (stainless steel)
Ferro-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, 2015/FAI Statistics, 2015-16 and Survey of Cement Industry & Directory, 2016, respectively.