

STATE REVIEWS



Indian Minerals Yearbook 2015 (Part- I)

54th Edition

**STATE REVIEWS
(Haryana)**

(FINAL RELEASE)

**GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES**

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HARYANA

Mineral Resources

The State is the principal holder of country's resources of tin ore (64%), quartz-silica sand (52%) and quartzite (50%). 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, 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

Details of exploration conducted by GSI during 2014-15 are furnished in Table - 2.

Production

The value of mineral production (excludes atomic mineral and value for February and March in respect of 31 minerals declared as minor mineral vide Gazette notification dated 10.02.2015) in Haryana at ₹ 149 crore was accrued mainly from minor minerals during 2014-15. The other mineral items for which production was reported in the State were slate and sulphur. The State was the sole producer of slate and leading producer of sulphur in the country. Though there was a marginal decrease in production, the State accounted for 39% of the national output of sulphur (Table-3).

The value of production of minor minerals was estimated at ₹ 149 crore for the year 2014-15.

There was only one reporting mine during 2013-14 and 2014-15.

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, 2012-13 to 2014-15
(Excluding Atomic Minerals)**

(Value in ₹ '000)

Mineral	Unit	2012-13			2013-14			2014-15 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
All Minerals		1		1487461	1		1487530	1		1487395
Slate [#]	t	1	278	263	1	351	332	1	218	197
Sulphur ^{\$}	t	-	218633	-	-	170471	-	-	168598	-
Minor Minerals [@]		-	-	1487198	-	-	1487198	-	-	1487198

Note: The number of mines excludes minor minerals.

\$ Recovered as by-product from fertilizer plant.

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

Declared as minor mineral vide Gazette notification dated 10.02.2015.

STATE REVIEWS

Table – 1: Reserves/Resources of Minerals as on 1.4.2010/1.4.2013* : Haryana

Mineral	Unit	Reserves				Remaining Resources				Total Resources (A+B)	
		Proved STD111	Probable		Feasibility STD211	Pre-feasibility STD221	Measured STD331	Indicated STD332	Inferred STD333		Total (B)
			STD121	STD122							
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
Felspar [#]	tonne	-	-	-	-	-	-	-	72164	72164	72164
Granite (Dim. stone)	'000 cu m	-	-	-	-	-	-	-	34000	34000	34000
Limestone	'000 tonnes	-	-	1425	15507	3382	-	2200	52163	74677	74677
Marble	'000 tonnes	-	-	-	1234	1602	-	-	19492	22328	22328
Quartz-silica sand [#]	'000 tonnes	-	46	8317	8363	252759	182478	27837	39767	1264473	1802868
Quartzite [#]	'000 tonnes	-	-	15702	89742	112365	86951	85333	231887	621980	621980
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.

* Reserves/Resources as on 1.4.2013.

Declared as minor mineral vide Gazette notification dated 10.02.2015.

STATE REVIEWS

Table – 2 : Details of Exploration Activities in Haryana, 2014-15

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Base metal							
Mahendragarh	Northeast of Islampur	-	-	3	600.7	158	G4 stage investigation of copper mineralisation was taken up with an objective to assess the potential of copper mineralisation in depth as well as strike extension in alluvial covered area. EPMA studies of core samples show chalcopyrite veins in pyrrhotite, botryoidal pyrite, grains of sphalerite and small worm like galena hosted in chalcopyrite and pyrrhotite. About 600.70 m drilling was completed on the basis of geophysical anomaly in three first level boreholes for a cumulative strike of 440 m to intersect the anomalies at 60 m vertically below the surface. A total of 158 core samples from the boreholes IPBH-1 to IPBH-3 were analysed for base metals and REE. Analytical results of 127 core samples of IPBH-1 and IPBH-2 indicated Cu values in the range of 4 ppm-1619 ppm, Pb values <10 ppm-98 ppm, Zn values 10 ppm-3251 ppm, Ag values <1 ppm, Co values <5 ppm-354 ppm and Ni values <10 ppm-271 ppm. The investigation has been completed.
Mahendragarh	South of Beghopur	-	-	3	600.35	128	G4 stage investigation of copper mineralisation was taken up with an objective to assess the potential of copper mineralisation in depth as well as strike extension in alluvial covered area. Sulphide mineralisation i.e. chalcopyrite, pyrite and pyrrhotite is reported to be present as disseminations and specks along the foliation and fracture planes of quartz-biotite schist. EPMA studies of core samples confirm the presence of Ullmannite (NiSbS), Benavidesite ($Pb_4(Mn,Fe)Sb_6S_{14}$) and Gudmundite (FeSbS). Association of Ullmannite and Gudmundite with the ore minerals indicate hydrothermal origin of sulphide mineralisation. A total of 600.35 m drilling with three first level boreholes was carried out on the basis of geophysical anomalies interpreted from geophysical survey carried out in F.S. 2014-15. Analytical results of 128 core samples of SBBH-1 & 2 received so far indicated the value of different elements as Cu <5-529 ppm, Pb <10-107 ppm, Zn <5-2360 ppm, Ni <10-398 ppm, Co <5-262 ppm. The REE values in all 128 samples ranged from 51 to 477 ppm. The investigation has been completed.

STATE REVIEWS

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, Hissar.	800 (stainless steel)
Ferro-alloys	
Haryana Ferro Alloys Ltd.	2.5
Glass	
Haryana Sheet Glass Ltd, Sevli, Distt. Sonipat.	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, hence it has been taken from Indian Fertilizer Scenario, 2015/FAI Statistics, 2014-15 and Survey of Cement Industry & Directory, 2015 respectively.