

STATE REVIEWS



Indian Minerals Yearbook 2017

(Part- I)

56th Edition

STATE REVIEWS
(Punjab)

(FINAL RELEASE)

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PUNJAB

Mineral Resources

Minerals reported to occur in the State are **quartz** and **silica sand** in Hoshiarpur district; and **quartzite** in Hoshiarpur and Ropar (Rupnagar) districts (Table - 1).

Exploration & Development

Exploration activities carried out for Potash and Phosphate during the year 2016-17 are furnished in Table-2.

Production

Production of minor minerals was only reported in the state. The value of minor minerals' production was estimated at ₹ 944 lakh for the year 2016-17.

Mineral-based Industry

The present status of each Mineral-based Industry is not readily available. However, the important Mineral-based Industries in the organised sector in the State are given in Table - 3.

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

Mineral	Unit	Reserves		Remaining Resources		Total resources (A+B)
		Total (A)	Indicated STD 332	Inferred STD 333	Total (B)	
Quartz/silica sand [#]	'000 tonnes	-	-	3927	3927	3927
Quartzite [#]	'000 tonnes	-	116	81796	81912	81912

Figures rounded off

Declared as Minor Mineral vide Gazette Notification dated 10.02.2015

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

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Potash & phosphate							
Ferozpur	Muktsar and Fazilka	-	-	-	-	-	Reconnaissance survey for potash, phosphate and associated minerals was carried out in this area. Saltpetre (KNO ₃) occurs in the form of thin brittle white encrustations of 1 to 2 mm thickness on older alluvium surface and at some places, it is mixed with soil. In the trenches, saltpetre was observed up to a depth of 60 cm from the surface. Encrustations observed on all wall of trenches and are sporadic in nature. The ground water is mostly alkaline and specific conductivity of the groundwater of the area ranges between 318 and 21,173 micro siemen/cm. Potash ranges between 5-80 mg/l and nitrate ranges between 2 and 975 mg/l, which is more than the desirable limit at most of the places. This indicates that the area is highly susceptible for salt formation.

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Table – 3: Principal Mineral-based Industries in Punjab

Industry/plant	Capacity ('000 tpy)
Alloy Steel	
Antarctic Industries Ltd, Ludhiana.	NA
Cement	
Ambuja Cement, Ropar (Rupnagar) (G).	2500
Ambuja Cement, Bathinda (G).	1200
Ultra Tech Cement, Bathinda (G).	1750
Chemical	
Siel Chemical Complex, Charatrapur.	74.3 (NaOH) 65.8 (Cl) 18 (bleaching powder) 66.0 (HCl)
VTPL (Vardhaman Industries Ltd), Distt. Patiala.	60

(Contd.)

Table - 3 (Concl'd.)

Industry/plant	Capacity ('000 tpy)
Fertilizer	
NFL, Nangal, Distt. Ropar (Rupnagar).	478.5 (Urea) 22 (methanol)
NFL, Sibian Road, Distt. Bathinda.	511.5 (Urea) 8.7 (S)
Ferro Alloys	
Mehra Ferro Alloys Ltd, Verka.	0.3
Petroleum Refinery	
HPCL Mittal energy Ltd, Bathinda.	9000
Sponge Iron	
Vallabh Steels Ltd, Sahnewal, Ludhiana.	120

(G): Grinding units.

Note: Data, not readily available for Fertilizer and Cement Industries besides their respective websites is taken from Indian Fertilizer Scenario, 2015/FAI Statistics, 2015-16 and Survey of Cement Industry & Directory, 2016, respectively.