

PRODUCTION



# Indian Minerals Yearbook 2018

(Part- I : GENERAL REVIEWS)

57<sup>th</sup> Edition

**PRODUCTION**

**(FINAL RELEASE)**

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

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## MINERALS

The mineral production (excluding atomic minerals and Minor Minerals) in India increased by 2.3% (as per index of mineral production base year 2011-12) during 2017-18 as compared to the previous year due to increase in the production of Coal (Raw), Lignite and Natural Gas (Ut.) among fuel minerals; Copper Concentrates, Gold, Iron Ore, Lead Concentrates, Zinc Concentrates, Manganese Ore and Tin Concentrates, among metallic minerals and Phosphorite, Diamond, Fluorite (Graded), Garnet (Abrasive), Kyanite, Sillimanite and Limestone among non-metallic minerals (Tables-1 & 2).

### Fuel Minerals

The production of coal at 675 million tonnes during 2017-18 increased by about 3% as compared to the previous year. The production of Lignite at 46 million tonnes also increased 2% during 2017-18 as compared to that of the previous year.

### Metallic Minerals

The value of metallic minerals in 2017-18 at ₹ 50,440 crore increased by about 27% over the previous year.

### Non-Metallic Minerals

The value of production of non-metallic minerals at ₹ 8,198 crore during 2017-18 decreased by 2% as compared to the previous year.

### Reporting Mines

Reporting mine is defined as “A mine reporting production or reporting ‘nil’ production during a year but engaged in developmental work such as, overburden removal, underground driving, winzings, sinking work, exploration by pitting, trenching or drilling as evident from the MCDR returns”.

There were 1,430 reporting mines (excluding atomic, fuel and minor minerals) in India located in 21 states during 2017-18. Among them, 638 belong to metallic minerals and 792 to non-metallic minerals.

There were 146 mines in public sector and the rest 1,284 mines were in private sector.

### Employment

The estimated average daily employment of labour engaged in mining sector (excluding atomic and minor minerals) was 4,77,399 in 2017-18. Of this, 3,76,819 or 79% were in public sector and 1,00,580 or 21% in private sector. Fuel minerals accounted for 77%, metallic minerals 17% and non-metallic minerals 6% of the total labour force during the year.

### Role of Public Sector

The public sector has played important role in the overall mineral production in 2017-18. The share of public sector in fuel minerals was dominant in 2017-18.

The entire production of copper ore & conc. among metallic minerals and diamond, fluorite, selenite and sulphur in respect of non-metallic minerals was reported from the public sector. By and large, the entire production of gold (primary) came from public sector during 2017-18.

### Index of Mineral Production

The index of mineral production (excluding atomic and minor minerals) (with base year 2011-12=100) for 2017-18 at 104.9 displayed a growth of 2.3% as compared to the previous year (Table-3).

### Gross Value Added from Mining & Quarrying Sector

The Ministry of Statistics & Programme Implementation has released the new series of national accounts, revising the base year from 2004-05 to 2011-12 in the year 2015. The industry-wise estimates are now presented as Gross Value Added (GVA) at basic prices. Certain changes have been made in this series including for Mining & Quarrying industry. During 2017-18 Mining and Quarrying industry accounted for about 2.5 % of the GVA at current prices. The GVA at current and constant prices for the period from 2015-16 to 2017-18 is given in Tables- 4 & 5.

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**Table - 1 : Mineral\* Production in India, 2015-16 to 2017-18  
(By Mineral Groups & Minerals)**

(Value ₹'000)

Mineral	Unit	2015-16 <sup>#</sup>		2016-17		2017-18(p)	
		Quantity	Value <sup>\$</sup>	Quantity	Value <sup>\$</sup>	Quantity	Value <sup>\$</sup>
<b>All Minerals</b>			<b>951880433</b>		<b>1017830990</b>		<b>1126317312</b>
<b>Fuel Minerals</b>			<b>n.a</b>		<b>n.a</b>		<b>n.a.</b>
Coal	'000t	639230	n.a	657868	n.a	675400	n.a
Lignite	'000t	43842	n.a	45230	n.a	46255	n.a
Natural gas (utilised)	m c m	32249	n.a	31897	n.a	32649	n.a
Petroleum (crude)	'000t	36942	n.a	36009	n.a	35684	n.a
<b>Metallic Minerals</b>			<b>336217086</b>		<b>397596111</b>		<b>504399961</b>
Bauxite	t	28123789	15437694	24745487	14865504	22312681	15020673
Chromite	t	2915584	21214490	3727780	31937475	3480928	32109182
Copper ore	t	3907823	-	3846427	-	3678846	-
Copper conc.	t	151837	6548318	134787	6506133	141863	7742763
Gold ore	t	562956	-	582280	-	549695	-
Gold	kg	1323	3214623	1595	4362410	1648	4763056
Iron ore	'000t	158108	223206636	194584	252291800	200955	342628915
Lead & Zinc ore	t	10453038	-	11881238	-	12613866	-
Lead conc.	t	261857	7885122	268047	9669267	306399	11429378
Zinc conc.	t	1473811	34943088	1484244	43385599	1539655	49799283
Manganese ore	t	2166947	8545510	2395134	16248429	2589271	19717530
Silver	kg	426443	15212374	460811	18320758	557691	21179042
Tin conc.	kg	13541	9231	12121	8736	16758	10139
<b>Non-Metallic Minerals</b>			<b>75720336</b>		<b>80291868</b>		<b>81974340</b>
Apatite	t	110	387	-	-	-	-
Phosphorite	t	1571863	3763823	1124440	2996711	1534269	3771584
Diamond	crt	36044	621441	36491	639562	39699	410737
Fluorite (graded)	t	2333	12965	1175	6733	1313	7097
Flint Stone	t	253	76	26	8	-	-
Garnet (abrasive)	t	82001	648124	85413	787302	158154	1636667
Graphite (r.o.m.)	t	135528	106487	122438	94158	33558	25656
Kyanite	t	2901	14180	3254	13458	7818	23002
Sillimanite	t	69942	509314	68131	535949	81638	669340
Limestone	'000t	307001	68673970	314669	73878426	338552	74407420
Limeshell	t	10353	28613	12344	34774	10893	39593
Magnesite	t	327663	827072	299149	749297	195033	503919
Marl	t	2389707	319957	2203700	317886	1822514	285095
Moulding sand	t	26042	6117	27685	6623	7097	1793
Salt (rock)	t	-	-	-	-	47	263
Selenite	t	3103	6206	4328	8656	469	939
Siliceous earth	t	47386	20735	77270	55340	58875	57457
Sulphur**	t	473322	-	560826	-	825173	-
Vermiculite	t	23279	10556	9042	8162	6055	7078
Wollastonite	t	175348	150313	166186	158823	153049	126700
<b>Minor Minerals<sup>@</sup></b>			<b>539943011</b>		<b>539943011</b>		<b>539943011</b>

\* Excluding the minerals declared as prescribed substances under the Atomic Energy Act,1962

\$ Excludes the value of fuel minerals

\*\* Obtained as by-product from fertilizer plants and oil refineries

@ : Figures for earlier years have been repeated as estimates, wherever necessary, because of non-receipt of data  
n.a.: Not available

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**Table - 2 : Mineral\* Production (Quantity), 2016-17 and 2017-18  
(By Sectors)**

Mineral	Unit	All India		Public sector		Private sector		% share of public sector in total production		Overall increase (+) or decrease (-) in production in 2017-18 over 2016-17
		2016-17	2017-18 (p)	2016-17	2017-18 (p)	2017-18	2017-18 (p)	2016-17	2017-18	
<b>Metallic Minerals</b>										
Bauxite	Tonne	24745487	22312681	7576687	8211826	17168800	14100855	30.62	36.80	-9.83
Chromite	Tonne	3727780	3480928	1271896	974415	2455884	2506513	34.12	27.99	-6.62
Copper conc.	Tonne	134787	141863	134787	141863	-	-	100.00	100.00	5.25
Copper ore	Tonne	3846427	3678846	3846427	3678846	-	-	100.00	100.00	-4.36
Gold (Total)	Kg	1595	1648	1580	1640	15	8	99.06	99.51	3.32
Gold ore	Tonne	582280	549695	576699	545077	5581	4618	99.04	99.16	-5.60
Iron ore (Total)	'000 t	194584	200955	70359	71379	124225	129576	36.16	35.52	3.27
Lead & Zinc ore	Tonne	11881238	12613866	-	-	11881238	12613866	-	-	6.17
Lead conc.	Tonne	268047	306399	-	-	268047	306399	-	-	14.31
Manganese ore	Tonne	2395134	2589271	1051911	1221643	1343223	1367628	43.92	47.18	8.11
Silver	Kg	460811	557691	169	173	460642	557518	0.04	0.03	21.02
Tin conc.	Kg	12121	16758	10006	14227	2115	2531	82.55	84.90	38.26
Zinc conc.	Tonne	1484244	1539655	-	-	1484244	1539655	-	-	3.73
<b>Non-Metallic Minerals</b>										
Diamond	Carat	36491	39699	36491	39699	-	-	100.00	100.00	8.79
Flourite graded	Tonne	1175	1313	1175	1313	-	-	100.00	100.00	11.74
Flint Stone	Tonne	26	-	-	-	26	-	-	-	-
Garnet (Abrasive)	Tonne	85413	158154	32688	40983	52725	117171	38.27	25.91	85.16
Graphite r.o.m.	Tonne	122438	33558	92901	-	29537	33558	75.88	-	-72.59
Kyanite	Tonne	3253	7818	976	2318	2277	5500	30.00	29.65	140.33
Limeshell	Tonne	12344	10893	-	0	12344	10893	-	0.00	-11.75
Limestone	'000 t	314669	338552	10541	11112	304128	327440	3.35	3.28	7.59
Magnesite	Tonne	299149	195033	162883	117310	136266	77723	54.45	60.15	-34.80
Marl	Tonne	2203700	1822514	-	-	2203700	1822514	-	-	-17.30
Moulding sand	Tonne	27685	7097	-	-	27685	7097	-	-	-74.37
Phosphorite	Tonne	1124440	1534269	1034744	1486259	89696	48010	92.02	96.87	36.45
Salt (Rock)	Tonne	-	47	-	47	-	-	-	100.00	-
Sillimanite	Tonne	68131	81638	24936	24336	43195	57302	36.60	29.81	19.83
Selenite	Tonne	4328	469	4328	469	-	-	100.00	100.00	-89.16
Siliceous earth	Tonne	77270	58875	-	-	77270	58875	-	-	-23.81
Sulphur	Tonne	560825	825173	560825	825173	-	-	100.00	100.00	47.14
Vermiculite	Tonne	9042	6055	1690	1265	7352	4790	18.69	20.89	-33.03
Wollastonite	Tonne	166186	153049	-	-	166186	153049	-	-	-7.90

\* Excluding Atomic, Fuel and minor minerals

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**Table - 3 : Index of Mineral Production, 2015-16 to 2017-18  
(Excluding Atomic and Minor Minerals)**

(Base 2011-12=100)

Year	Index of mineral production (1000)	Coal & lignite (306.854)	Crude petroleum & natural gas (444.318)	Metallic minerals (230.004)	Non-metallic minerals (18.824)
2015-16	97.3	119.6	83.3	94.0	106.5
2016-17	102.5	123.4	81.7	114.6	107.8
2017-18 (p)	104.9	126.7	82.0	119.0	117.4

*Note: Figures in parentheses indicate the weights attached to respective groups*

**Table - 4 : Gross Value Added at Basic Price, 2015-16 to 2017-18  
(At Current Prices) (31.05.2018)**

(in ₹ crore)

Industry	2015-16 (NS)	2016-17(NS)	2017-18 (PE)	% Change in 2017-18 over the previous year
<b>GVA (All)</b>	<b>12566646</b>	<b>13841591</b>	<b>15182371</b>	<b>9.7</b>
Mining & Quarrying	301230	332947	374,689	12.5

*Source : CSO NS : New Series Estimates PE : Provisional Estimates*

**Table - 5 : Gross Value Added at Basic Price, 2015-16 to 2017-18  
(At 2011-12 prices)**

(in ₹ crore)

Industry	2015-16 (NS)	2016-17 (NS)	2017-18 (PE)	% Change in 2017-18 over the previous year
<b>GVA (All)</b>	<b>10503348</b>	<b>11247629</b>	<b>11976155</b>	<b>6.5</b>
Mining & Quarrying	328453	371066	381965	2.9

*Source : CSO NS: New Series Estimates PE: Provisional Estimates*