

PRODUCTION



# Indian Minerals Yearbook 2019

(Part- I : GENERAL REVIEWS)

**58<sup>th</sup> Edition**

**PRODUCTION**

**(ADVANCE RELEASE)**

**GOVERNMENT OF INDIA  
MINISTRY OF MINES  
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# 8 Production

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## MINERALS

The mineral production (excluding atomic minerals and Minor Minerals) in India increased by 2.9% (as per index of mineral production base year 2011-12) during 2018-19 as compared to the previous year due to increase in the production raw coal among fuel minerals; bauxite, chromite, copper concentrates, gold, iron ore, lead concentrates, manganese ore & Tin Concentrates among Metallic minerals; and graphite (R.O.M.), limestone & wollastonite among Non-metallic minerals.

### Fuel Minerals

The production of coal at 729 million tonnes during 2018-19 increased by about 8% as compared to the level of the previous year. The production of lignite at 44 million tonnes during 2018-19 decreased by about 5% as compared to that of previous year. The production of petroleum (crude) at 34 million tonnes decreased by 4% whereas production of natural gas decreased by 2% (Table-1).

### Metallic Minerals

The value of metallic minerals in 2018-19 at 64,042 crore increased by about 26% over the previous year.

### Non-Metallic Minerals

The value of production of non-metallic minerals at 9,215 crore during 2018-19 increased by 4% as compared to the previous year (Table-1).

## 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, winzing, sinking work, exploration by pitting, trenching or drilling as evident from the MCDR returns”.

There were 1,364 reporting mines (excluding atomic fuel and minor minerals) in India located in 21 States during 2018-19. Among them, 597 belong to metallic minerals and 767 to non-metallic minerals. There were 145 mines in Public Sector and the rest of the 1,219 mines were in Private Sector.

## Employment

The estimated average daily employment of labour engaged in Mining Sector (excluding atomic and minor minerals) was 4,82,752 in 2018-19. Out of this, 3,78,458 or 78% were in Public Sector and 1,04,294 or 22% in Private Sector. Fuel minerals accounted for 76%, metallic minerals 18% 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 2018-19.

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 2018-19 (Table-2).

PRODUCTION

**Table - 1 : Mineral\* Production in India, 2016-17 to 2018-19  
(By Mineral Groups & Minerals)**

(Value ₹'000)

Mineral	Unit	2016-17		2017-18		2018-19 (P)	
		Quantity	Value\$	Quantity	Value\$	Quantity	Value\$
<b>All Minerals</b>			<b>1108455778</b>		<b>1315853071</b>		<b>1448837731</b>
<b>Fuel Minerals\$\$</b>			n.a		n.a		<b>n.a.</b>
Coal	'000t	657868	n.a.	675400	n.a.	728718	n.a.
Lignite	'000t	45230	n.a.	46644	n.a.	44283	n.a.
Natural Gas (utilised)	m cu m	31897	n.a.	32649	n.a.	32057	n.a.
Petroleum (crude)	'000t	36009	n.a.	35684	n.a.	34203	n.a.
<b>Metallic Minerals</b>			<b>397596111</b>		<b>509754193</b>		<b>640424514</b>
Bauxite	t	24745487	14865504	22786106	15784174	23687721	17168410
Chromite	t	3727780	31937475	3480941	32037005	3970688	35836111
Copper ore	t	3846427	-	3678002	-	4134745	-
Copper conc.	t	134787	6506133	141989	7706611	155435	9395243
Gold ore	t	582280	-	549683	-	565665	-
Gold (primary)	kg	1595	4362410	1651	4769813	1664	5241705
Iron ore	'000t	194584	252291800	201426	347131039	206446	451841360
Lead & zinc ore	t	11881238	-	12613866	-	13752297	-
Lead conc.	t	268047	9669267	306397	11429414	358370	16316814
Zinc conc.	t	1484244	43385599	1539657	49798274	1457171	56083774
Manganese ore	t	2395134	16248429	2599815	19907474	2820227	22702512
Silver	kg	460811	18320758	557691	21179042	679376	25824746
Tin conc.	kg	12121	8736	16758	11347	21211	13839
<b>Non-Metallic Minerals</b>			<b>80291868</b>		<b>88554632</b>		<b>92149031</b>
Phosphorite	t	1124440	2996711	1515645	3668267	1284580	3547584
Diamond	ct	36491	639562	39699	374110	38437	581058
Fluorite (graded)	t	1175	6733	1314	8646	1079	8483
Flint Stone	t	26	8	-	-	-	-
Garnet (abrasive)	t	85413	787302	158277	1618903	123404	1568237
Graphite (r.o.m.)	t	122438	94158	33649	28229	39370	37711
Iolite	kg	-	-	-	-	86	988
Kyanite	t	3253	13458	7818	23277	4889	15228
Sillimanite	t	68131	535949	81638	671690	69033	559792
Limestone	'000t	314669	73878426	340417	80995698	379045	84841055
Limeshell	t	12344	34774	14765	51445	7534	27786
Magnesite	t	299149	749297	195055	593650	146581	396564
Marl	t	2203700	317886	1969796	331289	1890309	325121
Moulding Sand	t	27685	6623	7100	1804	14423	3889
Salt (rock)	t	-	-	47	421	17	46
Selenite	t	4328	8656	469	939	2906	5812
Siliceous Earth	t	77270	55340	86662	53164	77739	51897
Sulphur**	t	560826	-	825173	-	890400	-
Vermiculite	t	9042	8162	6054	7075	3161	3808
Wollastonite	t	166186	158823	153049	126025	184063	173972
<b>Minor Minerals @</b>			<b>630567799</b>	-	<b>717544246</b>	-	<b>716264186</b>

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

\$ Excludes the value of fuel minerals. \$\$ Value of fuel minerals not available.

\*\* 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 from respective state governments.

PRODUCTION

**Table - 2 : Mineral\* Production (Quantity), 2017-18 and 2018-19  
(By Sectors)**

Mineral	Unit	All India		Public Sector		Private Sector		% share of Public Sector in total production		Overall increase (+) or decrease (-) in production in 2018-19 over 2017-18
		2017-18	2018-19 (P)	2017-18	2018-19 (P)	2017-18	2018-19 (P)	2017-18	2018-19 (P)	
<b>Metallic Minerals</b>										
Bauxite	tonne	22786106	23687721	8222495	10938288	14563611	12749433	36.09	46.18	3.96
Chromite	tonne	3480941	3970688	974415	1237533	2506526	2733155	27.99	31.17	14.07
Copper ore	tonne	3678002	4134745	3678002	4134745	-	-	100.00	100.00	12.42
Copper conc.	tonne	141989	155435	141989	155435	-	-	100.00	100.00	9.47
Gold ore	tonne	549683	565665	545065	563531	4618	2134	99.16	99.62	2.91
Gold (primary)	kg	1651	1664	1640	1661	11	3	99.33	99.82	0.79
Iron ore (Total)	'000 t	201426	206446	69562	71088	131864	135358	34.53	34.43	2.49
Lead & zinc ore	tonne	12613866	13752297	-	-	12613866	13752297	-	-	9.03
Lead conc.	tonne	306397	358370	-	-	306397	358370	-	-	16.96
Manganese ore	tonne	2599815	2820227	1226591	1290411	1373224	1529816	47.18	45.76	8.48
Silver	kg	557691	679376	173	204	557518	679172	0.03	0.03	21.82
Tin conc.	kg	16758	21211	14227	20054	2531	1157	84.90	94.55	26.57
Zinc conc.	tonne	1539657	1457171	-	-	1539657	1457171	-	-	-5.36
<b>Non-Metallic Minerals</b>										
Diamond	Carat	39699	38437	39699	38437	-	-	100.00	100.00	-3.18
Flourite Graded	tonne	1314	1079	1314	1079	-	-	100.00	100.00	-17.88
Garnet (Abrasive)	tonne	158277	123404	40983	45717	117294	77687	25.89	37.05	-22.03
Graphite (r.o.m.)	tonne	33649	39370	-	-	33649	39370	-	-	17.00
Iolite	kg	-	86	-	-	-	86	-	-	-
Kyanite	tonne	7818	4889	2318	1848	5500	3041	29.65	37.80	-37.46
Limeshell	tonne	14765	7534	-	0	14765	7534	-	0.00	-48.97
Limestone	'000 t	340417	379045	11354	10830	329063	368215	3.34	2.86	11.35
Magnesite	tonne	195055	146581	117310	40563	77745	106018	60.14	27.67	-24.85
Marl	tonne	1969796	1890309	-	-	1969796	1890309	-	-	-4.04
Moulding sand	tonne	7100	14423	-	-	7100	14423	-	-	103.14
Phosphorite	tonne	1515645	1284580	1466992	1185980	48653	98600	96.79	92.32	-15.25
Salt (rock)	tonne	47	17	47	17	-	-	100.00	100.00	-63.83
Sillimanite	tonne	81638	69033	24326	24419	57312	44614	29.80	35.37	-15.44
Selenite	tonne	469	2906	469	2906	-	-	100.00	100.00	519.62
Siliceous earth	tonne	86662	77739	-	-	86662	77739	-	-	-10.30
Sulphur**	tonne	825173	890400	825173	890400	-	-	100.00	100.00	7.90
Vermiculite	tonne	6054	3161	1264	705	4790	2456	20.88	22.30	-47.79
Wollastonite	tonne	153049	184063	-	-	153049	184063	-	-	20.26

\* Excluding Atomic, Fuel and minor minerals.

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

PRODUCTION

**Index of Mineral Production**

The index of mineral production (excluding atomic and minor minerals) (with base year 2011-12=100) for 2018-19 at 107.9 displayed a growth of 2.9% as compared to the previous year.

**Table - 3 : Index of Mineral Production, 2016-17 to 2018-19  
(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)
2016-17	102.5	123.4	81.7	114.6	107.8
2017-18	104.9	126.7	82.0	119.0	117.4
2018-19 (P)	107.9	135.2	80.1	123.5	128.1

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

**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 in that of Mining & Quarrying Industry. During 2018-19 Mining and Quarrying Industry accounted for about 2.4 % of the GVA at current prices. The GVA at current and constant prices for the period from 2016-17 to 2018-19 is given in Tables-4&5

**Table-4: Gross Value Added at Basic Price, 2016-17 to 2018-19  
(At Current Prices) (31.05.2019)**

(in ₹ crore)

Industry	2016-17 (NS)	2017-18(NS)	2018-19 (PE)	% Change in 2018-19 over the previous year
<b>GVA (All)</b>	<b>13935917</b>	<b>15482715</b>	<b>17199815</b>	<b>11.1</b>
Mining & Quarrying	321872	351058	410151	16.8

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

**Table-5: Gross Value Added at Basic Price, 2016-17 to 2018-19  
(At 2011-12 prices)**

(in ₹ crore)

Industry	2016-17 (NS)	2017-18 (NS)	2018-19 (PE)	% Change in 2018-19 over the previous year
<b>GVA (All)</b>	<b>11318972</b>	<b>12104165</b>	<b>12906936</b>	<b>6.6</b>
Mining & Quarrying	348089	365677	370564	1.3

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