

STATE REVIEWS



Indian Minerals Yearbook 2019

(Part-I)

58th Edition

STATE REVIEWS
(Summary)

(ADVANCE RELEASE)

GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES

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11 State Reviews

Summary

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.

Mineral production (Fuel, Metallic, Non-metallic and Minor minerals) was reported from 31 States, Union Territories and Offshore regions during the year 2018-19. From these States, the total production value reported was at ` 1,44,883.77 crore, out of which the value of MCDR mineral was reported at ` 73,257 crore. The major part of the value of MCDR mineral production was confined to four States, namely, Odisha, Rajasthan, Chhattisgarh and Karnataka (Table - 1).

The total number of reporting mines (excluding fuel, atomic and minor minerals) at all India level was 1,364 in 2018-19. Out of these, 213 were from Madhya Pradesh, 185 from Gujarat, 137 from Karnataka, 134 from Odisha, 101 from Tamil Nadu and 89 from Chhattisgarh. The remaining mines were reported from other States (Table - 2).

Mineralwise reserves/resources in the country as on 01.04.2015 are furnished in Table-3.

As per the AMD of Department of Atomic Energy, the total ilmenite resources in the country was estimated at 629.57 million tonnes and rutile resources was estimated at 33.95 million tonnes.

**Table – 1 : Value* of Mineral Production, 2016-17 to 2018-19
(By States & Union Territories)**

State/Union Territory	2016-17	2017-18	2018-19 (P)
India	1108455778	1315853071	1448837731
Andhra Pradesh	135816123	179748794	181237545
Arunachal Pradesh	337209	337209	337209
Assam	758449	768157	853165
Bihar	42824426	42744817	42858706
Chhattisgarh	77594583	101070093	119832999
Goa	12069849	13147147	545680
Gujarat	60345979	74236544	74464584
Haryana	1718901	1718901	1718901
Himachal Pradesh	2642047	3453441	3239248
Jammu & Kashmir	1707806	1791480	2040213
Jharkhand	17561832	24558197	25511367
Karnataka	63249191	95961664	96571270
Kerala	35366554	46682670	38809084
Madhya Pradesh	51614133	78042284	82281327
Maharashtra	57375391	54757349	59118321
Manipur	2866	2866	2866
Meghalaya	2612627	2935103	2866591
Mizoram	16793	16793	16793
Nagaland	1774	1774	1774
Odisha	161051823	196957766	302559015
Punjab	94448	349980	90153
Rajasthan	197522033	214528795	231070503
Sikkim	18787	18787	18787
Tamil Nadu	10090594	9165480	9389014
Telangana	116783984	113287672	113877664
Tripura	37793	37951	47953
Uttar Pradesh	56655753	56914337	56824691
Uttarakhand	727583	742564	777852
West Bengal	1455113	1455113	1455113
Andaman & Nicobar Islands	401334	419343	419343

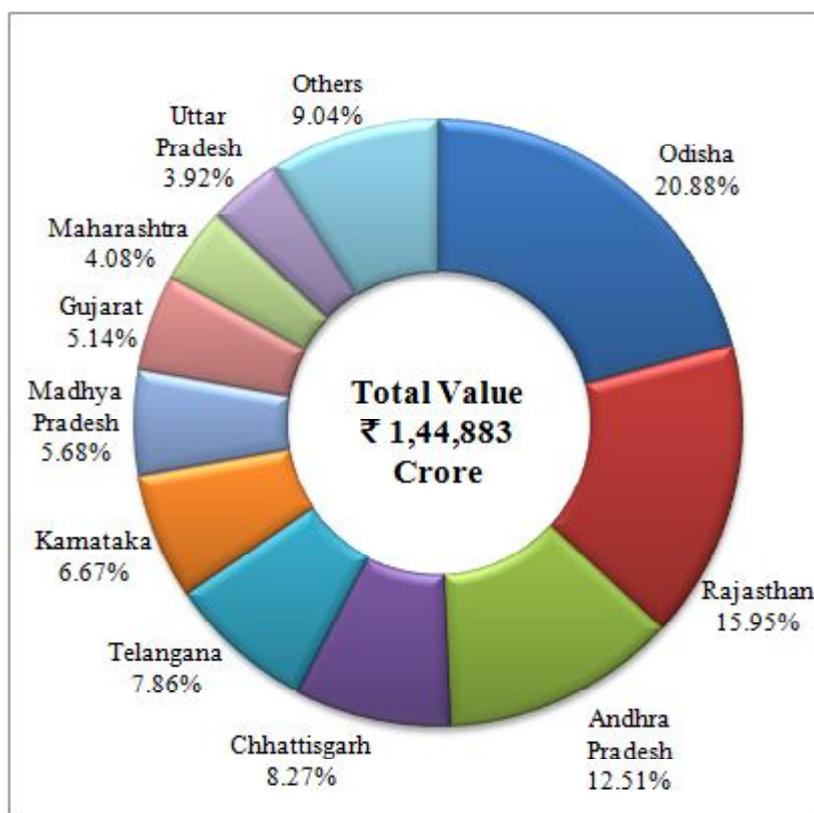
* Excluding the minerals declared as prescribed substances under the Atomic Energy Act, 1962 and Fuel minerals.

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**Table – 2 : Number of Reporting Mines*, 2016-17 to 2018-19
(By States)**

State	2016-17	2017-18	2018-19 (P)
India	1617	1509	1364
Andhra Pradesh	136	135	130
Assam	3	3	3
Bihar	1	1	1
Chhattisgarh	117	112	89
Goa	89	90	50
Gujarat	212	207	185
Himachal Pradesh	22	21	23
Jammu & Kashmir	10	13	22
Jharkhand	59	59	59
Karnataka	155	148	137
Kerala	8	8	8
Madhya Pradesh	219	227	213
Maharashtra	73	77	65
Meghalaya	14	19	21
Odisha	135	134	134
Rajasthan	87	84	82
Tamil Nadu	237	129	101
Telangana	34	36	36
Uttar Pradesh	2	2	2
Uttarakhand	3	3	3
West Bengal	1	1	-

* Excluding atomic minerals, fuel minerals and minor minerals.

Share of States in the Value* of Mineral Production, 2018-19

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Table – 3: Reserves/Resources of Minerals as on 1.4.2015: India

Mineral	Unit	Reserves				Remaining Resources				Total Resources (A+B)				
		Proved STD 111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Measured STD331		Indicated STD332	Inferred STD333	Reconnaissance STD334	Total (B)
			STD121	STD122			STD221	STD222						
Andalusite	'000 tonnes	-	-	-	-	-	-	-	-	4000	24201	28201	28201	
Antimony	tonnes	-	-	-	-	-	-	-	-	10588	-	10588	10588	
Ore	tonnes	-	-	-	-	-	-	-	-	174	-	174	174	
Metal	tonnes	-	-	-	-	-	-	-	-	-	-	-	-	
Apatite	tonnes	27715	1680	29395	1385734	491818	1225345	2281521	11481250	6132768	1017646	24016082	24045477	
Asbestos	tonnes	20016	4617	24633	2488167	3114728	4064178	100687	2527959	10569233	57800	22922751	22947384	
Ball Clay [#]	tonnes	33526297	11182801	4784522	49493621	11045214	4286560	624977	2497880	53357091	-	85249716	134743337	
Barytes [#]	tonnes	50449000	49358	848467	51346825	410466	1258521	205834	1284390	31735548	105721	35323825	86670650	
Bauxite	'000 tonnes	434043	18599	203780	656422	254378	382369	710878	430890	1209706	119588	3240442	3896864	
Bentonite [#]	tonnes	13926227	50000	609406	659406	6838864	2721697	26519818	225744237	212115692	25730000	568302781	568962187	
Borax	tonnes	-	-	-	-	-	-	-	-	-	74204	74204	74204	
Calcite [#]	tonnes	928119	798170	1722578	3448867	1332076	217790	9122696	1241494	4204311	97476	19555082	23003949	
Chalk [#]	'000 tonnes	4215	529	319	5064	741	151	196	-	269	-	1687	6751	
China Clay [#]	'000 tonnes	140456	36144	52869	229469	107176	42220	289723	415703	1685730	72599	2711777	2941247	
Chromite	'000 tonnes	64465	12815	24930	102210	67618	15780	26914	33076	44458	20452	241806	344016	
Cobalt Ore	million tonnes	-	-	-	-	-	-	30.63	2	0.28	12	44.91	44.91	
Copper														
Ore	'000 tonnes	162972	44796	207767	44925	31090	59209	158300	232654	772912	4640	1303730	1511498	
Metal	'000 tonnes	2127.9	606.72	2734.62	382.18	324.55	585.42	1950.87	2050.98	4100.36	29.17	9423.53	12158.15	
Corundum [#]	tonnes	200	-	200	70844	1073	63060	13	38	105794	52675	293497	293697	
Diamond	carats	959500	159	959659	-	-	-	304601	1524317	29047514	-	30876432	31836091	
Diaspore [#]	tonnes	3242363	884525	3755546	7882434	114789	480663	14241	110358	1045944	46068	2310817	10193251	
Diatomite [#]	'000 tonnes	-	-	-	634	-	-	-	-	2251	-	2885	2885	
Dolomite [#]	'000 tonnes	432636	107364	138883	678883	371516	537932	307103	757005	5215075	224194	7736008	8414891	
Dunite [#]	'000 tonnes	10848	18	1901	12768	436	108887	25202	1087	23832	13680	175049	187818	
Emerald	kg	-	-	-	-	-	-	-	-	-	55869	55869	55869	
Feldspar [#]	tonnes	173383004	103054634	43403974	319841612	4590322142	467697	13882441	17928113	150012330	3371567	313725742	633567354	
Fireclay [#]	'000 tonnes	13295	5035	8707	27037	13878	30155	49290	54093	524011	6104	695791	722829	
Fluorite	tonnes	224824	63860	-	288684	4976749	745390	1713833	6218421	3522537	145183	17893423	18182107	
Fuller's														
Earth [#]	tonnes	3941000	-	-	3941000	-	58200	-	912340	256467419	-	257437959	261378959	

(Contd.)

Table - 3 (Contd)

Mineral	Unit	Remaining Resources										Total Resources (A+B)		
		Proved	Probable	Total	Feasibility	Pre-feasibility	Measured	Indicated	Inferred	Reconnaissance	Total			
		STD 111	STD121	STD122	STD211	STD221	STD222	STD331	STD332	STD333	STD334		(B)	
Garnet	tonnes	9917936	278493	2587427	12783856	84320	1643412	3287667	121099	10247428	27992906	333	43377166	56161022
Gold														
Ore	(Primary) tonnes	10404349	6401725	422100	17228174	1925669	1303000	1968176	30333248	70136727	233608305145336333484611458	501839632		
Metal	(Primary) tonnes	53.41	16.26	0.42	70.09	7.69	3.85	12.1	128.65	143.8	227.44	61.12	584.65	654.74
Ore	(Placer) tonnes	-	-	-	-	-	-	-	-	2552000	23569000	-	26121000	26121000
Metal	(Placer) tonnes	-	-	-	-	-	-	-	-	2.29	3.57	-	5.86	5.86
Granite														
(Dimension Stone)#	th. cu m	35741	201377	26574	263692	38462	51990	8234	837325	2063964	42543908	512216	46056098	46319790
Graphite	tonnes	4229675	1204423	2526694	7960793	9571933	3825575	3593404	741377	7308340	22561229139464128186925987	194886779		
Gypsum#	'000 tonnes	35141	311	1169	36621	10826	93127	33419	9071	713834	428097	4518	1292892	1329513
Iron Ore	'000 tonnes	4053033	469917	918801	5441752	3444103	1553822	1496674	1762741	1798557	4498142	2491176	17045214	22486965
Iron Ore	(Magnetite) '000 tonnes	30352	2311	20037	52699	223388	15494	64091	1513195	1984566	6351286	584436	10736455	10789155
Kyanite	tonnes	639121	-	48958	688079	1505114	568205	2193427	579619	3577402	95869713	-	104293480	104981559
Laterite #	'000 tonnes	98598	12527	13608	124733	49655	8960	22724	3532	2626	243535	250787	581819	706552
Lead & Zinc														
Ore	'000 tonnes	31662	68687	5767	106116	5564	17411	31297	37055	192083	355403	4530	643343	749459
Lead Metal	'000 tonnes	624.56	1666.02	191.76	2482.34	119.31	521.74	780.56	690.65	2171.43	6237.67	-	10521.36	13003.7
Zinc Metal	'000 tonnes	2871.75	6728.14	399.63	9999.52	364.08	940.26	1362.05	1941.94	7931.06	13722.2	101.65	26363.24	36362.76
Lead & Zinc														
Metal	'000 tonnes	-	-	-	-	-	-	-	-	-	120.76	22.37	143.13	143.13
Limestone	'000 tonnes	9439243	3015917	3881208	16336368	4870136	4852713	8622861	7111337	22629060	130787772	8014504	186888383	203224752
Magnesite	'000 tonnes	77867	165	4244	82276	6210	9345	45574	59010	59652	131707	213	311711	393988
Manganese														
Ore	'000 tonnes	62982	19715	10778	93475	70742	44606	73823	18189	42803	135722	16513	402399	495874
Marble#	'000 tonnes	-	-	4551	4551	104236	202003	72387	-	107129	1453386	2200	1941341	1945891

(Contd)

Table - 3 (Contd)

Mineral	Unit	Reserves										Total Resources (A+B)		
		Proved					Remaining Resources							
		STD 111	Probable	Total (A)	Feasibility	Pre-feasibility	Measured	Indicated	Inferred	Reconnaissance	Total (B)			
	STD121	STD122	STD211	STD221	STD222	STD331	STD332	STD333	STD334					
Marl	tonnes	117115856	4650000	2090000	123855856	11704870	-	-	-	-	-	-	11704870	135560726
Mica#	kg	82187635	20035595	12209547	114432777	382525001	0605400	124089303	143353477	56528016	144446953	3593715	520869364	635302141
Molybdenum														
Ore Contained	tonnes	-	-	-	-	-	1500000	-	36000	569304	17098594	167800	19371698	19371698
MoS ₂	tonnes	-	-	-	-	-	1050	-	83	287	11198.03	50.34	12668.37	12639.57
Nickel Ore	million tonnes	-	-	-	-	-	21	21	31	53	63	-	189	189
Ochre#	tonnes	21959552	4448341	10525912	54942176	449248901	3936202	31896176	2559245	3560819	32369262	1612607	89319089	144261265
Perlite	'000 tonnes	-	-	-	-	140	683	595	-	-	-	988	2406	2406
Platinum														
Group of Metals (PGM)	In tonnes of metal content	-	-	-	-	-	-	-	-	7.71	6.5	1.5	15.71	15.71
Potash	million tonnes	-	-	-	-	-	-	-	-	18142	3660	707	22508	22508
Pyrite	'000 tonnes	-	-	-	-	27129	-	32597	9590	77729	1527356	-	1674401	1674401
Pyrophyllite	tonnes	16575493	4322386	4035079	24932958	9539407	8301411	4240016	1118943	3589624	7533340	360006	34682745	59615703
Quartz & Silica														
Sand#	'000 tonnes	433210	94539	129677	657426	354429	367016	353626	36872	219180	1897962	21436	3250522	3907948
Quartzite#	'000 tonnes	47758	2016	33698	83472	120723	141437	160355	119953	152715	868850	11293	1575325	1658798
Rare-earth Elements	tonnes	-	-	-	-	-	-	-	-	6353	19140	-	25493	25493
Rock														
Phosphate	tonnes	64465	12815	24930	102210	67618	15780	33506	26914	33076	44458	20452	241806	344016
Rock Salt	'000 tonnes	-	-	-	-	10035	-	5990	-	-	-	-	16025	16025
Ruby	kg	-	-	-	-	-	429	3296	-	-	1623	-	5349	5349
Sapphire	kg	-	-	-	-	-	-	-	-	-	450	-	450	450
Shale#	'000 tonnes	15027	171	274	15472	495	-	2022	-	-	1175	90	3781	19253
Sillimanite	tonnes	323231	5728868	450016	6502115	1020187	135278	20257525	4580083	17790664	16068690	3849600	63702027	70204142
Silver														
Ore	tonnes	69277075	8413000	72753828	150443903	-	1484543	46726460	29632000	65056000	218611729	0.361510732	511954635	511954635
Metal	tonnes	4309.78	220.77	2641.39	7171.94	-	42.85	259.62	2037.99	3236.39	17230.19	2.84	22809.88	29981.82

(Contd)

Table - 3 (Concl'd)

Mineral	Unit	Remaining Resources						STATE REVIEWS				Total Resources (A+B)	
		Proved STD 111	Probable STD 121	STD 122	Total (A)	Feasibility STD 211	Pre-feasibility STD 221	STD 222	Measured STD 331	Indicated STD 332	Inferred STD 333		Reconnaissance STD 334
Slate#	'000 tonnes	19619	667	-	20286	-	1075	-	-	1511	-	2586	22872
Sulphur (Native)	'000 tonnes	-	-	-	-	-	-	-	-	210	-	210	210
Talc/Steatite/ Soapstone#	'000 tonnes	72172	8067	26251	106490	18178	13020	32221	2994	8126	128620	6275	209434
Tin													
Ore	tonnes	2067	897	1455	4419	22594200	2653	31330072	168457	561080	29064288	-	83720749
Metal	tonnes	44.56	94.02	15.62	154.2	33139.45	842.8	54049.65	813.29	231.63	13182.34	-	102259.16
Leucoxene	tonnes	-	-	-	-	624903	-	-	1994	-	341949	-	968846
Anatase	tonnes	-	-	-	-	-	-	-	-	3345000	-	-	3345000
Titamiferous Magnetite	tonnes	-	-	-	-	293539	-	117416	950000	3630000	35629202	-	40620157
Not-known	tonnes	12915	-	-	12915	-	31365	-	-	-	-	-	31365
Tungsten													
Ore	tonnes	-	-	-	-	2230000	-	173063	19611152	23435954	25356049	16581246	87387464
Contained WO ₃	tonnes	-	-	-	-	3568.00	-	450.00	9914.00	20180.92	103415.15	4566.28	142094.35
Vanadium													
Ore	tonnes	-	-	-	-	276530	1720000	4108100	-	232000	18297225	-	24633855
Contained V ₂ O ₅	tonnes	-	-	-	-	1106	2835	6032	-	487	54133	-	64594
Vermiculite	tonnes	1582906	19413	30566	1632885	36411	26196	39794	58396	20179	538607	-	719582
Wollastonite	tonnes	1953384	48075	240003	2241462	3750118	12000	3748191	76088	3325042	3316385	-	14227824

Figures rounded off.

Note: The proved and indicated balance recoverable reserves of crude oil and natural gas as on 1.4.2019 in India are 618.94 million tonnes and 1,380.94 billion cu. m, respectively.

Declared as minor mineral vide Gazette Notification dated 10.02.2015.

Minor mineral before Gazette Notification dated 10.02.2015.