

STATE REVIEWS



Indian Minerals Yearbook 2018

(Part- I)

57th Edition

STATE REVIEWS
(Summary)

(FINAL RELEASE)

GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES

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December, 2019

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Summary

The total value of MCDR mineral production at ` 1,58,637 crore during 2017-18 increased by 23% as compared to that of the previous year. Mineral production was reported from

31 States, Union Territories during the year. The major part of the value of MCDR mineral production was from States, namely, Odisha, Rajasthan, Chhattisgarh, Karnataka, and Andhra Pradesh (Table - 1).

**Table – 1 : Value* of Mineral Production, 2015-16 to 2017-18
(By States & Union Territories)**

State/Union Territory	2015-16 ^s	2016-17 ^s	2017-18(P) ^{ss}
India	951880433	1017830990	1126317312
Andhra Pradesh	101514077	102855836	104648311
Arunachal Pradesh	337209	337209	337209
Assam	544220	758449	775010
Bihar	42892072	42824426	42744830
Chhattisgarh	67466692	77023499	98183494
Goa	9213777	18596029	18007514
Gujarat	67313486	66321679	64524717
Haryana	354770	354770	354770
Himachal Pradesh	2815316	2819817	2991852
Jammu & Kashmir	2528688	2333915	2465664
Jharkhand	19152954	17561832	21105305
Karnataka	55849293	68734490	95012436
Kerala	22680870	22690151	22618270
Madhya Pradesh	29116636	29111391	32378576
Maharashtra	49970264	52885091	54014418
Manipur	2866	2866	2866
Meghalaya	2694333	2612627	2861675
Mizoram	16793	16793	16793
Nagaland	1774	1774	1774
Odisha	143747089	161051823	201774478
Punjab	94448	94448	94448
Rajasthan	180582142	195210862	208869737
Sikkim	18787	18787	18787
Tamil Nadu	11598798	11571600	10044305
Telangana	81907924	82479376	82818831
Tripura	47554	47554	47554
Uttar Pradesh	56568882	56655753	56738589
Uttarakhand	718159	727583	734539
West Bengal	1455113	1455113	1455113
Andaman & Nicobar Islands	675447	675447	675447

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

§ Excludes the value of Petroleum (crude) & Natural Gas (ut.) and Fuel minerals.

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The index of mineral production (excluding atomic 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.

The total number of reporting mines [excluding atomic minerals, petroleum (crude), natural gas and minor minerals] at all India level was 1,430 in 2017-18 as against 1,617 in the previous year. Out of the 1,430 reporting mines, the maximum of 223 are located in Madhya Pradesh followed by Gujarat (181), Karnataka (140),

Andhra Pradesh & Odisha (130 each), Tamil Nadu (110), Chhattisgarh (109), Goa (90), Rajasthan (81), Maharashtra (73), Jharkhand (57), Telangana (35) and Himachal Pradesh (21). The remaining mines are reported from other States (Table - 2).

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

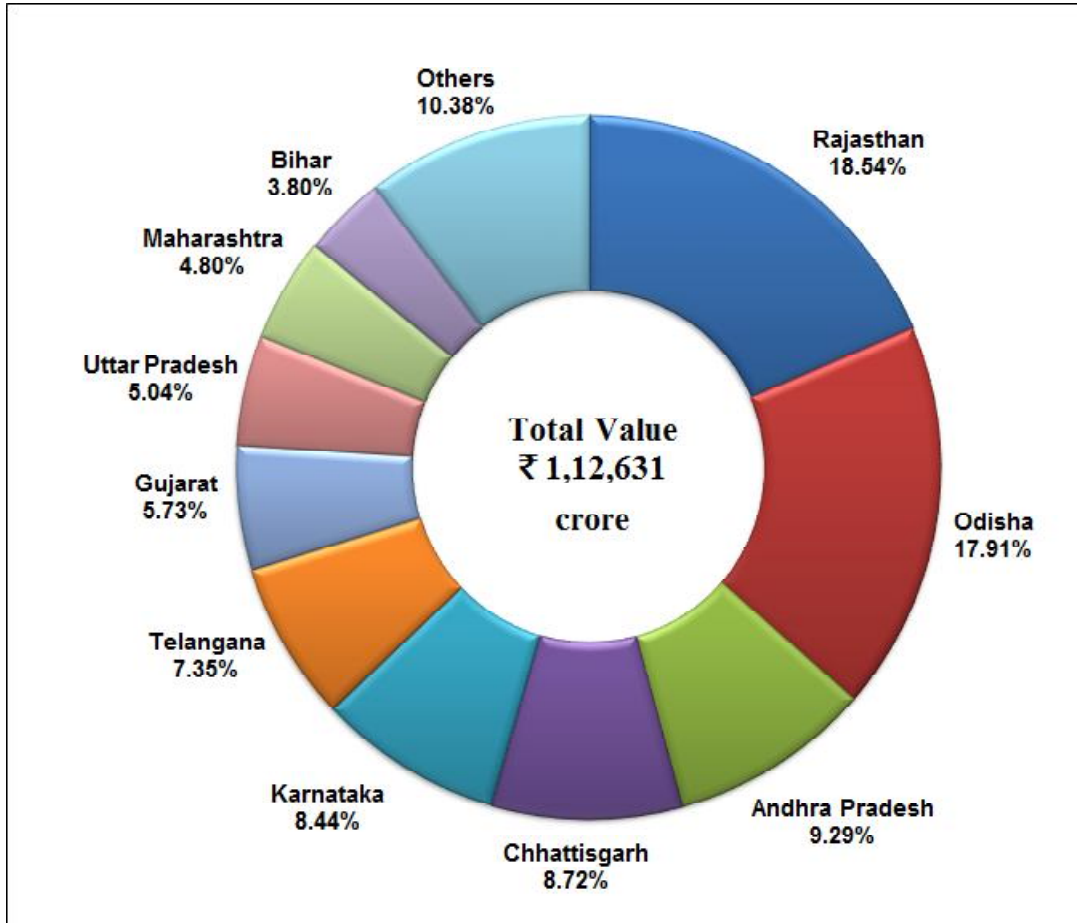
As per the AMD of Department of Atomic Energy, the total ilmenite resources in the country was estimated at 629.57 million tonnes and rutile resources was estimated at 33.95 million tonnes.

**Table – 2 : Number of Reporting Mines*, 2015-16 to 2017-18
(By States)**

State	2015-16	2016-17	2017-18 (P)
India	1619	1617	1430
Andhra Pradesh	136	136	130
Assam	3	3	3
Bihar	1	1	1
Chhattisgarh	104	117	109
Goa	88	89	90
Gujarat	230	212	181
Himachal Pradesh	18	22	21
Jammu & Kashmir	6	10	13
Jharkhand	62	59	57
Karnataka	160	155	140
Kerala	8	8	8
Madhya Pradesh	210	219	223
Maharashtra	71	73	73
Meghalaya	13	14	19
Odisha	133	135	130
Rajasthan	87	87	81
Tamil Nadu	247	237	110
Telangana	36	34	35
Uttar Pradesh	2	2	2
Uttarakhand	3	3	3
West Bengal	1	1	1

* Excluding Atomic minerals, Fuel minerals and Minor minerals.

Share of States in the Value* of Mineral Production, 2017-18



* Excluding the minerals declared as prescribed substances under the Atomic Energy Act, 1962 and the value of petroleum (crude) & Natural Gas (ut.) and Fuel minerals.

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

Mineral	Unit	Reserves				Remaining Resources						Total Resources (A+B)		
		Proved STD111	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 Ore	tonnes	-	-	-	-	-	-	-	-	10588	-	10588	10588	
Metal	tonnes	-	-	-	-	-	-	-	-	174	-	174	174	
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	47845222	49493621	11045214	4286560	13437994	624977	2497880	53357091	-	85249716	134743337
Barytes [#]	tonnes	50449000	49358	848467	51346825	410466	323345	1258521	205834	1284390	31735548	105721	35323825	86670650
Bauxite	'000 tonnes	434043	18599	203780	656422	254378	132633	382369	710878	430890	1209706	119588	3240442	3896864
Bentonite [#]	tonnes	13926227	50000	609406	659406	6838864	2721697	68632472	26519818	225744237	212115692	25730000	568302781	568962187
Borax	tonnes	-	-	-	-	-	-	-	-	-	-	74204	74204	74204
Calcite [#]	tonnes	928119	798170	1722578	3448867	1332076	217790	3339239	9122696	1241494	4204311	97476	19555082	23003949
Chalk [#]	'000 tonnes	4215	529	319	5064	741	331	151	196	-	269	-	1687	6751
China Clay [#]	'000 tonnes	140456	36144	52869	229469	107176	42220	98627	289723	415703	1685730	72599	2711777	2941247
Chromite	'000 tonnes	64465	12815	24930	102210	67618	15780	33506	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	21279	60672	273462	38218	32455	58542	195087	205098	410036	2917	942353	1215815	
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	498756	480663	14241	110358	1045944	46068	2310817	10193251
Diatomite [#]	'000 tonnes	-	-	-	-	634	-	-	-	-	2251	-	2885	2885
Dolomite [#]	'000 tonnes	432636	107364	138883	678883	371516	323183	537932	307103	757005	5215075	224194	7736008	8414891

(Contd)

Table - 3 (Contd)

Mineral	Unit	Reserves						Remaining resources						Total resources (A+B)			
		Proved		Probable		Total		Measured		Indicated		Inferred			Reconnaissance		Total (B)
		STD 111	STD 121	STD 122	STD 121	STD 122	Feasibility STD 211	Pre-feasibility STD 221	STD 222	STD 331	STD 332	STD 333	STD 334		STD 334		
Dunite#	'000 tonnes	10848	18	1901	12768	436	1925	108887	25202	1087	23832	13680	175049	187818			
Emerald	kg	-	-	-	-	-	-	-	-	-	-	55869	55869	55869			
Felspar#	tonnes	173383004	103054634	43403974	319841612	45903221	42467697	40160373	13882441	17928113	150012330	3371567	313725742	633567354			
Fireclay#	'000 tonnes	13295	5035	8707	27037	13878	30155	18260	49290	54093	524011	6104	695791	722829			
Fluorite	tonnes	224824	63860	-	288684	4976749	745390	571311	1713833	6218421	3522537	145183	17893423	18182107			
Fuller's Earth#	tonnes	3941000	-	-	3941000	-	-	58200	-	912340	256467419	-	257437959	261378959			
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	233608305	145336333	484611458	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	7368340	22361229	139464128	186925987	194886779			
Gypsum#	'000 tonnes	35141	311	1169	36621	10826	93127	33419	9071	713834	428097	4518	1292892	1329513			
Iron Ore (Haematite)	'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	5767	106116	556417411	31297	37055	192083	192083	355403	4530	643343	749459	Ore			
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			
Marl	tonnes	117115856	4650000	20900000	123855856	11704870	-	-	-	-	-	-	11704870	135560726			

(Contd)

Table - 3 (Contd)

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						
Mica#	kg	82187635	20035595	12209547	114432777	38252500	10605400	124089303	143353477	56528016	144446953	3593715	520869364	635302141
Molybdenum														
Ore Contained MoS ₂	tonnes	-	-	-	-	-	1500000	-	36000	569304	17098594	167800	19371698	19371698
Nickel Ore	million tonnes	-	-	-	-	-	1050	-	83	287	11198.03	50.34	12668.37	12639.57
Ochre#	tonnes	21959552	4448341	10525912	54942176	44924890	13936202	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 cont. million tonnes	-	-	-	-	-	-	-	-	7.71	65	1.5	15.71	15.71
Potash	'000 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
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
Slate#	'000 tonnes	19619	667	-	20286	-	-	1075	-	-	1511	-	2586	22872
Sulphur (Native)	'000 tonnes	-	-	-	-	-	-	-	-	-	210	-	210	210

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Table - 3 (Concl'd)

Mineral	Unit	Reserves					Remaining Resources					Total resources (A+B)		
		Proved	Probable	Total	Feasibility	Pre-feasibility	Measured	Indicated	Inferred	Reconnaissance	Total			
		STD 111	STD121	STD122	STD211	STD221	STD331	STD332	STD333	STD334	(B)			
Talc/Steatite/ Soapstone#	'000 tonnes	72172	8067	26251	106490	18178	13020	32221	2994	8126	128620	6275	209434	315924
Tin	tonnes	2067	897	1455	4419	22594200	2653	31330072	168457	561080	29064288	-	83720749	83725168
Metal	tonnes	44.56	94.02	15.62	154.2	33139.45	842.8	54049.65	813.29	231.63	13182.34	-	102259.16	102413.36
Leucoxene	tonnes	-	-	-	624903	-	-	-	1994	-	341949	-	968846	968846
Anatase	tonnes	-	-	-	-	-	-	-	-	3345000	-	-	3345000	3345000
Titaniferous	tonnes	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnetite	tonnes	-	-	-	293539	-	117416	950000	3630000	35629202	-	-	40620157	40620157
Not-known	tonnes	12915	-	-	12915	-	31365	-	-	-	-	-	31365	44280
Tungsten	tonnes	-	-	-	-	-	-	-	-	-	-	-	-	-
Ore	tonnes	-	-	-	2230000	-	173063	19611152	23435954	25356049	16581246	-	87387464	87387464
Contained	tonnes	-	-	-	-	-	-	-	-	-	-	-	-	-
WO ₃	tonnes	-	-	-	-	3568.00	-	450.00	9914.00	20180.92	103415.15	4566.28	142094.35	142094.35
Vanadium	tonnes	-	-	-	-	-	-	-	-	-	-	-	-	-
Ore	tonnes	-	-	-	276530	1720000	4108100	-	232000	18297225	-	-	24633855	24633855
Contained	tonnes	-	-	-	-	-	-	-	-	-	-	-	-	-
V ₂ O ₅	tonnes	-	-	-	1106	2835	6032	487	54133	-	-	-	64594	64594
Vermiculite	tonnes	1582906	19413	30566	1632885	36411	26196	39794	58396	20179	538607	-	719582	2352467
Wollastonite	tonnes	1953384	48075	240003	2241462	3750118	12000	3748191	76088	3325042	3316385	-	14227824	16469286

Figures rounded off.

Note: The Proved and Indicated recoverable reserves of crude oil and natural gas as on 1.4.2018 in India are 594.49 million tonnes and 1,339.57 billion cu m, respectively.

Declared as Minor Mineral vide Gazette Notification dated 10.02.2015.

Minor Mineral before Gazette Notification dated 10.02.2015.