

STATE REVIEWS



Indian Minerals Yearbook 2020

(Part-I)

59th 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 1.6% (as per index of mineral production base year 2011-12) during 2019-20 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 2019-20. From the State the value of MCDR mineral production was reported at ₹ 1,50,826 crore. The

major part of the value of MCDR mineral production was confined to four States, namely Odisha, Rajasthan, Chattisgarh and Karnataka.

The total number of reporting mines (excluding fuel, atomic and minor minerals) at all India level were 1,303 in 2019-20. Out of these, 220 were from Madhya Pradesh, 167 from Gujarat, 140 from Karnataka, 129 from Odisha, 123 from Andhra Pradesh, 94 from Chattisgarh, 91 from Tamil Nadu and 84 from Rajasthan. Remaining mines were reported from other States.

**Table – 1 : Value* of Mineral Production, 2017-18 to 2019-20
(By States & Union Territories)**

State/Union Territory	(In ₹'000)		
	2017-18	2018-19	2019-20 (P)
India	1291943301	1461266117	1508267069
Andhra Pradesh	179748794	119550100	140958100
Arunachal Pradesh	382142	448300	455845
Assam	768157	845538	816195
Bihar	42744817	42858862	42985609
Chhattisgarh	101070093	117345916	118381892
Goa	13147147	545680	545576
Gujarat	74236544	74901900	76444846
Haryana	1718901	1718901	1718901
Himachal Pradesh	3453441	3224807	3458479
Jammu & Kashmir	1791480	2102405	2015886
Jharkhand	24558407	31567789	31585557
Karnataka	95961664	93955584	90438808
Kerala	46682670	38807569	38796189
Madhya Pradesh	78042284	82555134	81522864
Maharashtra	54757349	59045818	82328653
Manipur	2866	2866	2866
Meghalaya	2935103	3022550	3038389
Mizoram	16793	16793	16793
Nagaland	1774	1774	1774
Odisha	196957766	305305092	328412227
Punjab	349980	90153	28701
Rajasthan	191058893	229732298	247030882
Sikkim	18787	18787	18787
Tamil Nadu	8680469	9821067	8962257
Telangana	113287672	184264230	148977791
Tripura	37951	47953	47953
Uttar Pradesh	56914337	56988986	56893975
Uttarakhand	742564	789931	741479
West Bengal	1455113	1455113	1455113
Andaman & Nicobar Islands	419343	234221	184682

* 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*, 2017-18 to 2019-20
(By States)**

State	2017-18	2018-19	2019-20 (P)
India	1509	1427	1303
Andhra Pradesh	135	133	123
Assam	3	3	3
Bihar	1	1	1
Chhattisgarh	112	105	94
Goa	90	48	33
Gujarat	207	200	167
Himachal Pradesh	21	25	24
Jammu & Kashmir	13	22	17
Jharkhand	59	61	48
Karnataka	148	141	140
Kerala	8	8	2
Madhya Pradesh	227	223	220
Maharashtra	77	72	67
Meghalaya	19	21	19
Odisha	134	134	129
Rajasthan	84	84	84
Tamil Nadu	129	104	91
Telangana	36	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, 2019-20

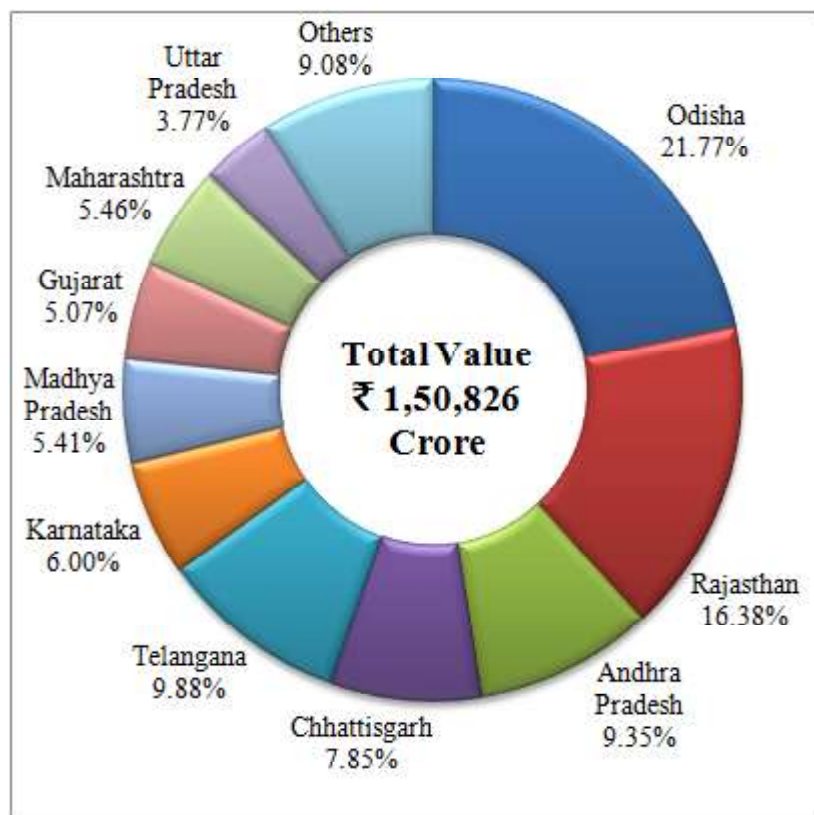


Table – 3: Reserves/Resources of Minerals as on 1.4.2015: India

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		Total (B)	
			STD121	STD122			STD221	STD222				STD334	STD334		
Andalusite	'000 tonnes	-	-	-	-	-	-	-	-	-	4000	24201	28201	28201	28201
Antimony															
Ore	tonnes	-	-	-	-	-	-	-	-	-	10588	-	10588	10588	10588
Metal	tonnes	-	-	-	-	-	-	-	-	-	174	-	174	174	174
Apatite	tonnes	27715	-	1680	29395	1385734	491818	1225345	2281521	11481250	6132768	1017646	24016082	24045477	24045477
Asbestos	tonnes	20016	-	4617	24633	2488167	3114728	4064178	100687	2527959	10569233	57800	22922751	22947384	22947384
Ball Clay [#]	tonnes	33526297	11182801	4784522	49493621	11045214	4286560	13437994	624977	2497880	53357091	-	85249716	134743337	134743337
Barytes [#]	tonnes	50449000	49358	848467	51346825	410466	323345	1258521	205834	1284390	31735548	105721	35323825	86670650	86670650
Bauxite	'000 tonnes	434043	18599	203780	656422	254378	132633	382369	710878	430890	1209706	119588	3240442	3896864	3896864
Bentonite ^{##}	tonnes	13926227	50000	609406	659406	6838864	2721697	68632472	26519818	225744237	212115692	25730000	568302781	568962187	568962187
Borax	tonnes	-	-	-	-	-	-	-	-	-	-	74204	74204	74204	74204
Calcite [#]	tonnes	928119	798170	1722578	3448867	1332076	217790	3339239	9122696	1241494	4204311	97476	19555082	23003949	23003949
Chalk [#]	'000 tonnes	4215	529	319	5064	741	331	151	196	-	269	-	1687	6751	6751
China Clay [#]	'000 tonnes	140456	36144	52869	229469	107176	42220	98627	289723	415703	1685730	72599	2711777	2941247	2941247
Chromite	'000 tonnes	64465	12815	24930	102210	67618	15780	33506	26914	33076	44458	20452	241806	344016	344016
Cobalt Ore	million tonnes	-	-	-	-	-	-	-	30.63	2	0.28	12	44.91	44.91	44.91
Copper															
Ore	'000 tonnes	162972	-	44796	207767	44925	31090	59209	158300	232654	772912	4640	1303730	1511498	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	12158.15
Corundum [#]	tonnes	200	-	-	200	70844	1073	63060	13	38	105794	52675	293497	293697	293697
Diamond	carats	959500	-	159	959659	-	-	-	304601	1524317	29047514	-	30876432	31836091	31836091
Diaspore [#]	tonnes	3242363	884525	3755546	7882434	114789	498756	480663	14241	110358	1045944	46068	2310817	10193251	10193251
Diatomite [#]	'000 tonnes	-	-	-	-	634	-	-	-	-	2251	-	2885	2885	2885
Dolomite [#]	'000 tonnes	432636	107364	138883	678883	371516	323183	537932	307103	757005	5215075	224194	7736008	8414891	8414891
Dunite [#]	'000 tonnes	10848	18	1901	12768	436	1925	108887	25202	1087	23832	13680	175049	187818	187818
Emerald	kg	-	-	-	-	-	-	-	-	-	-	55869	55869	55869	55869
Feldspar [#]	tonnes	173383004	103054634	43403974	319841612	459032214	242467697	40160373	13882441	17928113	150012330	3371567	313725742	633567354	633567354
Fireclay [#]	'000 tonnes	13295	5035	8707	27037	13878	30155	18260	49290	54093	524011	6104	695791	722829	722829
Fluorite	tonnes	224824	63860	-	288684	4976749	745390	571311	1713833	6218421	3522537	145183	17893423	18182107	18182107
Fuller's															
Earth ^{##}	tonnes	3941000	-	-	3941000	-	-	58200	-	912340	256467419	-	257437959	261378959	261378959
															(contd.)

Table - 3 (contd)

Mineral	Unit	Remaining Resources						STATE REVIEWS						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							
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	2336083051	4533633348461	1458	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	223612291394641	28186925987	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	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)

Reserves	Mineral	Unit	Remaining Resources										Total Resources (A+B)		
			Proved STD 111	Probable		Feasibility STD211	Pre-feasibility		Measured STD331	Indicated STD332	Inferred STD333	Reconnaissance STD334		Total (B)	
				STD121	STD122		STD221	STD222							
	Marl	tonnes	117115856	4650000	2090000	123855856	11704870	-	-	-	-	-	-	11704870	135560726
	Mica [#]	kg	82187635	20035595	12209547	114432777	3825250010605400	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	4492489013936202	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															
	Rock	tonnes	-	-	-	-	-	-	-	-	6353	19140	-	25493	25493
	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
(contd)															

(contd)

Table - 3 (concl'd)

Reserves		Remaining Resources						STATE REVIEWS							
		Mineral	Unit	Proved		Total (A)	Feasibility STD211	Pre-feasibility		Measured STD331	Indicated STD332	Inferred STD333	Reconnaissance STD334	Total (B)	Total Resources (A+B)
				STD 111	Probable			STD121	STD122						
	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	315924
	Tin														
	Ore	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 Magnetite	tonnes	-	-	-	-	293539	-	117416	950000	3630000	35629202	-	40620157	40620157
	Not-known	tonnes	12915	-	-	12915	-	31365	-	-	-	-	-	31365	44280
	Tungsten														
	Ore	tonnes	-	-	-	-	2230000	-	173063	19611152	23435954	25356049	16581246	87387464	87387464
	Contained WO ₃	tonnes	-	-	-	-	3568.00	-	450.00	9914.00	20180.92	103415.15	4566.28	142094.35	142094.35
	Vanadium														
	Ore	tonnes	-	-	-	-	276530	1720000	4108100	-	232000	18297225	-	24633855	24633855
	Contained 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 balance recoverable reserves of crude oil and natural gas as on 1.4.2020 in India are 603.36 million tonnes and 1,371.89 billion cu. m, respectively.

Declared as minor mineral vide Gazette Notification dated 10.02.2015.

Minor mineral before Gazette Notification dated 10.02.2015.