

STATE REVIEWS



Indian Minerals Yearbook 2018

(Part- I)

57th Edition

STATE REVIEWS
(Telangana)

(FINAL RELEASE)

GOVERNMENT OF INDIA
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December, 2019

TELANGANA

The State of Telangana has been carved out of Andhra Pradesh and efforts have been made to present a clear picture about the areas/districts that fall under the State. However, in terms of the data for the State, there might be overlapping of data-figures between Andhra Pradesh and Telangana. Any inconsistency in data would be sorted out in the subsequent edition.

Telangana is the 29th State of India, formed on the 2nd of June 2014 with ten districts, namely, Hyderabad, Adilabad, Khammam, Karimnagar, Mahabubnagar, Medak, Nalgonda, Nizamabad, Rangareddy and Warangal. Telangana is surrounded by Maharashtra and Chhattisgarh in the North, Karnataka in the West and Andhra Pradesh in the South and East directions.

Mineral Resources

Telangana is the leading producer of barytes, dolomite, feldspar, laterite, limestone, Quartz and Sand (others). It accounts for 47% kyanite, 29% corundum, 10% fuller's earth and 9% limestone resources of the country. Telangana is endowed with the internationally known black, pink, blue and multicoloured varieties of granites.

Important minerals that occur in Telangana are: **barytes** in Khammam district; **china clay** in

Adilabad, Mahabubnagar, Nalgonda, Rangareddy, and Warangal districts; **coal** in Adilabad, Karimnagar, Khammam and Warangal districts; **corundum** in Khammam district; **dolomite** in Khammam and Warangal districts; **felspar** in Hyderabad, Khammam, Mahabubnagar, Medak, and Rangareddy districts; **fireclay** in Adilabad and Nalgonda districts; **garnet** in Khammam district; **granite** in Karimnagar, Khammam, Mahabubnagar, Medak, Nalgonda, Rangareddy and Warangal districts; **iron ore (haematite)** in Khammam district; **iron ore (magnetite)** in Adilabad and Warangal districts; **limestone** in Adilabad, Hyderabad, Karimnagar, Mahabubnagar, Nalgonda and Rangareddy districts; **manganese ore** in Adilabad district; **mica** in Khammam district; **quartz/silica sand** in Hyderabad, Khammam, Mahabubnagar, Medak, Nalgonda, Rangareddy and Warangal districts; and **talc/soapstone/steatite** in Khammam district.

Other minerals that occur in the State are **chromite, copper, graphite and kyanite** in Khammam district; **fuller's earth** in Medak and Rangareddy districts; and **marble** in Khammam district (Tables - 1 and 2).

Exploration & Development

The details of exploration activities conducted by GSI for coal and other minerals during 2017-18 are furnished in Table - 3.

Table – 2: Reserves/Resources of Coal as on 1.4.2018 : Telangana

(In million tonnes)

Coalfield	Proved	Indicated	Inferred	Total
Total/Godavari Valley	10474.90	8576.13	2650.92	21701.95

Source: Coal Directory of India, 2017-18.

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Table -1: Reserves/Resources of Minerals as on 01.04.2015: Telangana

Mineral	Unit	Reserves				Remaining Resources						Total resources (A+B)		
		Proved STD 111	Probable STD121 STD122	Total (A)	Feasibility STD211	Pre-feasibility STD221	Measured STD331	Indicated STD332	Inferred STD333	Reconnaissance STD334	Total (B)			
Barytes#	tonne	1324582	-	403420	1728002	112320	45400	130061	-	12940	711239	-	1011960	2739962
China Clay#	'000 tonnes	623	322	945	2902	655	1059	655	-	-	10602	132	15350	16295
Chromite	'000 tonnes	-	-	-	-	-	-	-	-	15	171	-	186	186
Copper	'000 tonnes	-	-	-	-	-	-	-	-	-	-	-	666	666
Ore	'000 tonnes	-	-	-	-	-	-	-	-	-	-	-	9.12	9.12
Metal	'000 tonnes	-	-	-	-	-	9.12	-	-	-	-	-	77113	77113
Corundum	tonne	-	-	-	5824	-	-	9282	-	-	62007	-	145298	188021
Dolomite#	'000 tonnes	42072	-	651	42723	2869	1594	1944	-	132511	6380	-	13385142	23387715
Felspar#	tonne	8244089	526905	1231579	10002573	3163212	543605	1938177	134417	3890572	3657219	57940	10684	11446
Fireclay#	'000 tonnes	762	-	762	667	-	746	-	-	758	8514	-	25523983	25523983
Fuller's Earth#	tonne	-	-	-	-	-	-	-	-	-	1855976	-	1945099	1960196
Garnet	tonne	15097	-	-	15097	47090	42033	-	-	-	-	-	-	-
Granite														
(Dimension Stone)#	'000 cum	-	-	-	-	-	-	-	-	-	45494	-	45494	45494
Graphite	tonne	-	-	-	-	-	-	-	-	123636	95818	-	219455	219455
Iron ore														
(Haematite)	'000 tonnes	509	-	-	509	973	483	-	-	-	23977	27240	52673	53181
Iron ore														
(Magnetite)	'000 tonnes	-	-	-	-	-	-	-	-	-	71500	14	71514	71514
Kyanite	tonne	-	-	-	-	-	-	-	-	-	48350000	-	48350000	48350000
Laterite#	'000 tonnes	36471	8213	2426	47110	6439	828	2536	-	-	6483	305	16591	63701
Limestone	'000 tonnes	625569	195	400766	1026529	254912	28110	92020	113416	921577	11710694	3038478	16159208	17185736
Manganese														
ore	'000 tonnes	156	3	196	355	2	-	46	-	886	203	76	1214	1568
Marble#	'000 tonnes	-	-	-	-	-	-	-	-	-	3	-	3	3
Mica#	kilograms	-	-	-	-	-	-	584885	-	-	-	-	584885	584885
Quartz &														
Silica Sand#	'000 tonnes	18541	1367	6916	26824	10334	2414	8365	159	3107	28642	230	53250	80074
Shale#	'000 tonnes	13852	-	-	13852	-	-	-	-	-	-	-	-	13852
Talc -Steatite -														
Soapstone#	'000 tonnes	-	-	-	-	-	-	-	-	-	20	-	20	20

Figures rounded off

Declared as Minor Minerals vide Gazette Notification dated 10.02.2015.

Minor Minerals before Gazette Notification dated 10.02.2015.

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Table – 3 : Details of Exploration Activities in Telangana, 2017-18

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq. km)	No. of boreholes	Meterage		
GSI							
Coal							
Adilabad	Dorli block, north-western part of (Godavari Valley Coalfield)	-	-	4	2125.20	-	Regional exploration for coal by scout drilling in north-west of Dorli block, north-western part of Godavari valley coalfield in Adilabad district was taken up. The coal-bearing Lower Gondwana sequence under the cover of Deccan trap was reported in the north western part of Dorli area during geological mapping on 1:25000 scale. The Barakar coal seams have been exposed in the nala section of the area. The maximum thickness of traps established by geophysical survey using gravity and magnetic methods varied from 40 m to 150 m. Further north-west of Chintaguda area the trap thickness was found to be gradually increasing with maximum thickness being recorded as 250 m.
Khammam	Pagaderu West Sector (Godavari Valley Coalfield)	-	-	4	2125.20	-	G3 stage exploration was taken up for coal by drilling in this area. A total of 2,125.20 m were drilled in four boreholes. A total of 136.61 m of coal were sampled. The Lower Kamthi coal seam zones (V to I) and the Barakar coal seam zones (A&B, No. I seam, C and Thick seam) were intersected within the depth range from 15.70 m to 695.00 m with individual seam thickness varying from 0.50 m to 3.92 m. Occurrence of coal has been proved along the strike extension of 2 km and dip extension of 5 km. A tentative resource estimate of 100 million tonnes have been identified with quality of coal varying from C to G grade.
The Singareni Collieries Company Ltd (SCCL)							
Adilabad Khammam, Karimnagar and Warangal	-	-	-	350	109109	-	SCCL has explored the area to locate the presence of economically viable coal deposits and established the nature, shape and grade of the coal identified. A total of 350 exploratory boreholes were drilled to a cumulative depth of 109109 m and proved reserves of 72.64 million tonnes with cumulative reserves position at the end of 2017-18 at 10,474.90 million tonnes were established. The exploration work was carried out in this area.

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Table-3 (Concl'd)

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Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq. km)	No. of boreholes	Meterage		
Manganese							
Adilabad	Pranhita Godavari basin	1:12500	100	3	200	200	Preliminary exploration was taken up in this area. Two horizons of manganese mineralisation were observed within the massive limestone. Lower manganese horizon extended over 35 km with thickness of 0.4 m to 1 m while Upper manganese horizon was found to be poorly developed showing thickness of about 0.1 m and was discontinuous in nature. An area of 100 sq. km was mapped on 1:12500 scale in two blocks, i.e. Gurra-Rampur block and Kanpa-Junapani block. Further, 102 BRS, 20 PCS, 10 PS, 20 ORM and 48 PT samples were collected. Geophysical survey and scout drilling of 200 m were also carried out. Three boreholes were drilled in Gurra-Rampur block and one in Kanpa-Junapani block. However, manganese mineralisation was encountered only in one borehole of Gurra-Rampur block at a depth of 25 m which suggest that depth continuation of manganese horizon is irregular/erratic and lack the potential for further exploration.
Diamond							
Mahabubnagar and Vikarabad	Kodangal- Parigi block,	1:50000	780	-	-	467	Reconnaissance survey was taken up for locating primary source rocks of diamond in this area. Aerial reconnaissance and satellite imagery study of 1500 sq. km and field reconnaissance survey of 780 sq. km were carried out on 1:50000 scale and 218 stream sediment samples, 218 heavy mineral samples, 25 petrological samples and 6 petrochemical samples were collected. The stream sediment samples were processed for recovery of kimberlite indicator minerals/heavy minerals. Microscopic study and EPMA analysis were also carried out. Source rock could not be identified.

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Production

Production of minerals like coal, manganese ore, limestone etc. were reported from Telangana.

The value of minor minerals production was estimated at ` 7,745 crore for the year 2017-18.

The number of reporting mines was 35 in 2017-18 in case of MCDR minerals. Details are furnished in Table-4.

Mineral-based Industry

The present status of each Mineral-based Industry is not readily available. However, the important Mineral based Industries in the Organised Sector in the State are given in Table-5.

**Table – 4 : Mineral Production in Telangana, 2015-16 to 2017-18
(Excluding Atomic Minerals)**

(Value in `'000)

Mineral	Unit	2015-16			2016-17			2017-18 (P)		
		No. of mines	Qty	Value ^{\$}	No. of mines	Qty	Value ^{\$}	No. of mines	Qty	Value ^{\$}
All Minerals		36		81907924	34		82479376	35		82818831
Coal	'000t		60380	-	-	61336	-	-	62010	-
Iron Ore	'000t	1	-	-	-	-	-	-	4	1406
Manganese Ore	t	5	6892	17277	5	13262	66514	5	17373	81062
Limestone	'000t	30	23878	4437332	29	24720	4959547	30	27250	5283048
Minor Minerals [@]		-	-	77453315	-	-	77453315	-	-	77453315

\$ Excluding Fuel Minerals.

@ Figures for earlier years have been repeated as estimates, wherever necessary because of non-receipt of data.

**Table – 5 : Principal Mineral-based Industries
in Telangana**

Industry/plant	Capacity ('000 tpy)	Industry/plant	Capacity ('000 tpy)
Aluminium Foil			
Hindalco, Kollur, Medak.	4	Deccan Cements Ltd, Bhavanipuram, Distt Nalgonda.	2300
Asbestos Products			
Bhagyanagar Wood Plast Ltd, Nandikandi, Distt Medak.	60	India Cements Ltd, Malkapur, Distt Rangareddy.	2400
Hyderabad Industries Ltd, Sanathnagar, Distt Rangareddy.	160	India Cement (Raasi Cements), Wadapally, Distt Nalgonda.	2500
Hyderabad Industries Ltd, Thimmapur.	230	Keerthi Industries Ltd, Mellacheruvu, Distt Nalgonda.	620
J.J. Spun Pipe Industries, Arsapalli, Distt Nizamabad.	4.5	Kesoram Cement, Basantnagar, Distt Karimnagar.	1750
Visaka Industries Ltd, Medak.	36	Mancherial Cement Co. (P) Ltd, Mancherial, Distt Adilabad.	330
Bleaching Clay			
Ashapura Clay Tech. Ltd, Dharur, Distt Rangareddy.	20 (Fuller's earth granules) 15 (Bentonite granules)	My Home Cement Industries Ltd, Mellacheruvu, Distt Nalgonda.	3200
Cement			
Anjani Portland Cements Ltd (Subs. of Chettinad Cement), Anjanipuram, Distt Nalgonda.	1160	NCL Industries Ltd, Simhapuri, Distt Nalgonda.	990
CCI Ltd, Adilabad, Distt Adilabad.	400	Orient Cement, Devapur, Distt Adilabad.	3000
CCI Ltd, Tandur, Distt Rangareddy.	1000	Penna Cement Industries Ltd, Tandur, Distt Rangareddy.	2000

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Table-5 (Contd)		STATE REVIEWS		Table-5 (Concl'd)	
Industry/plant	Capacity ('000 tpy)	Industry/plant	Capacity ('000 tpy)	Industry/plant	Capacity ('000 tpy)
Penna Cement Industries Ltd, Ganeshpahad, Distt Nalgonda.	1200	Bright Star Iron & Steel Ltd, Mekaguda, Distt Mahabubnagar	NA		
Rain Commodities Ltd (Rain Cements), Ramapuram, Distt Nalgonda.	1500	Binjusaria Sponge & Power Pvt. Ltd, Farooq Nagar, Distt Mahabubnagar.	30		
Sagar Cements Ltd, Mattampally, Distt Nalgonda.	2350	Kumar Metallurgical Corpn. Ltd, Nalgonda.	60		
Zuari Cements Ltd (Sri Vishnu Cements Works), Dondapadu, Sitapuram, Distt Nalgonda.	3600 (tpd)	Lakshmi Gayatri Iron & Steel, Kethepally Distt Nalgonda.	NA		
Ceramic/Sanitaryware		NMDC (Sponge Iron Division), Paloncha, Khammam.	60		
Hindustan Sanitaryware & Industries Ltd, Bibinagar, Distt Nalgonda.	1.8	Reactive Metals of India Ltd, Appajipally Distt Mahabubnagar.	100 (TPD)		
Montana International Ltd, Faralwadi, Distt Medak.	3.6	Sunder Steels Ltd, S.D. Road, Secunderabad.	24		
Restile Ceramics Ltd, Malkapur, Distt Medak.	1.4 (mill. sq m)	Ferro-alloys			
Fertilizer		Nav Bharat Ferro Ventures Ltd, Paloncha, Distt Khammam.	125		
Chemtech Fertilizers Ltd, Kazipalli, Medak.	33 (SSP)	Shree Raghvendra Ferro alloys Pvt Ltd, Nalgonda.	15		
Glass		VBC Ferro Alloys Ltd, Rudraram, Distt Medak.	48		
Ceat Ltd, Thimmapur, Distt Mahabubnagar.	10	Refractory			
Sponge Iron		MPR Refractories Ltd, Medak.	9.5		
Ashirwad Steels & Ind. Ltd, Veliminedu, Distt Nalgonda.	60	Raasi Refractories, Narketapally, Distt Nalgonda.	35		
Anand Metallics & Power Pvt. Ltd, Kodi Cherla, Distt Mahabubnagar.	NA	<i>Note: Data, not readily available for fertilizer and cement Industries on respective websites, is therefore taken from FAI Statistics and Survey of Cement Industry & Directory.</i>			

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