

Indian Minerals Yearbook 2019

(Part-I)

58th Edition

STATE REVIEWS (Telangana)

(ADVANCE RELEASE)

GOVERNMENT OF INDIA MINISTRY OF MINES INDIAN BUREAU OF MINES

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TELANGANA

The write up for this State is being presented for the first time in the Yearbook. The State is carved out of Andhra Pradesh and efforts have been made to give a clear picture about the areas/districts falling under the state; however, there are chances of intermixing of data between Andhra Pradesh and Telangana, it will be sorted out in next edition.

Telangana is the 29th State of India, formed on the 2nd of June 2014 with ten districts, namely; Hyderabad, Adilabad, Khammam, Karimnagar, Mahbubnagar, 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 occurring in Telangana are: barytes in Khammam, district; china clay in Adilabad, Mahabubnagar, Nalgonda, Rangareddi, 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 (hematite)** in Khammam district; **iron ore (magnetite)** in Adilabad, and Warangal districts; **limestone** in Adilabad, Hyderabad, Karimnagar, Mahabub-nagar, Nalgonda, Rangareddy, districts; **manganese ore** in Adilabad district; **mica** in Khammam districts; **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 2018-19 are furnished in Table - 3.

Production

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

The value of minor minerals' production was estimated at ₹ 10,774 crore for the year 2018-19.

The number of reporting mines was 36 in 2018-19 in case of MCDR minerals (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 - 2: Reserves/Resources of Coal as on 1.4.2019 : Telangana

| | | | | (In million tonnes) |
|-----------------------|----------|-----------|----------|---------------------|
| Coalfield | Proved | Indicated | Inferred | Total |
| Total/Godavari Valley | 10622.32 | 8564.74 | 2651.88 | 21838.94 |

Source: Coal Directory of India, 2018-19

| | | | Rese | srves | | | | | Remainin | ig Resources | | | | |
|---|---|--------------------------|---------------------------|---------------------------|-------------------------|-------------|---------|----------|----------|--------------|----------|------------|-------------|--------------------|
| Mineral | Unit | Proved | Prob | able | Total | Feasibility | Pre-fea | sibility | Measured | Indicated | Inferred | Reconnaiss | sance Total | Total resources |
| | | SID 111 | STD121 | STD122 | (A) | S1D211 | STD221 | STD222 | S1D331 | S1D332 | S1D333 | S1D33 | 4 (B) | (A+B) |
| Barvtes# | tonne | 1374587 | | 403420 | 1728002 | 112320 | 45400 | 130061 | | 12940 | 711239 | | 1011960 | 2739962 |
| ChinaClay [#] | '000 tonnes | 623 | 322 | | 945 | 2902 | 1059 | 655 | 1 | | 10602 | 132 | 15350 | 16295 |
| Chromite | '000 tonnes | 1 | ı | ı | ı | ı | ı | | ı | 15 | 171 | ı | 186 | 186 |
| Copper | | | | | | | | | | | | | | |
| Ore | '000 tonnes | 1 | ı | | ' | • | 666 | I | | | | • | 666 | 666 |
| Metal | '000 tonnes | 1 | | ' | ' | | 9.12 | I | · | · | ' | ı | 9.12 | 9.12 |
| Corundum | tonne | | | ı | ' | 5824 | ı | 9282 | ı | ı | 62007 | | 77113 | 77113 |
| $Dolomite^{\#}$ | '000 tonnes | 42072 | I | 651 | 42723 | 2869 | 1594 | 1944 | ı | 132511 | 6380 | ı | 145298 | 188021 |
| Feldspar [#] | tonne | 8244089 | 526905 | 12315791 | 0002573 | 3163212 | 543605 | 1938177 | 134417 | 3890572 | 3657219 | 57940 | 13385142 | 23387715 |
| FireClay [#] | '000 tonnes | 762 | I | I | 762 | 667 | 746 | I | I | 758 | 8514 | ı | 10684 | 11446 |
| Fuller's Earth## | tonne | I | | ı | ' | ı | · | I | ı | | 25523983 | I | 25523983 | 25523983 |
| Garnet | tonne | 15097 | I | ı | 15097 | 47090 | 42033 | I | | ı | 1855976 | | 1945099 | 1960196 |
| Granite | | | | | | | | | | | | | | |
| (Dimension | | | | | | | | | | | | | | |
| $Stone)^{\#}$ | '000 cum | • | • | ' | ' | ' | · | • | • | | 45494 | • | 45494 | 45494 |
| Graphite | tonne | | • | | • | ' | ı | I | • | 123636 | 95818 | • | 219455 | 219455 |
| Iron ore | | | | | | | | | | | | | | |
| (Haematite) | '000 tonnes | 509 | | | 509 | 973 | 483 | I | | | 23977 | 27240 | 52673 | 53181 |
| Iron ore | | | | | | | | | | | | | | |
| (Magnetite) | '000 tonnes | 1 | | ' | ' | ' | ı | ı | • | ' | 71500 | 14 | 71514 | 71514 |
| Kyanite | tonne | 1 | I | ı | ' | ' | ı | ı | | - | 48350000 | | 48350000 | 48350000 |
| Laterite [#] | 000 tonnes | 36471 | 8213 | 2426 | 47110 | 6439 | 828 | 2536 | 1 | 1 | 6483 | 305 | 16591 | 63701 |
| Limestone Manganese | '000 tonnes | 625569 | 195 | 400766 | 1026529 | 254912 | 28110 | 92020 | 113416 | 921577 | 11710694 | 3038478 | 16159208 | 17185736 |
| Ore | '000 tonnes | 156 | " | 196 | 355 | c | | 46 | · | 886 | 203 | 76 | 1214 | 1568 |
| Marble ^{##} | '000 tonnes | | | | | | ı | | | | ŝ | | . 60 | ŝ |
| $Mica^{\#}$ | kilograms | ı | I | ı | ' | | · | 584885 | | ı | ı | ı | 584885 | 584885 |
| Quartz & | | | | | | | | | | | | | | |
| Silica Sand [#] | '000 tonnes | 18541 | 1367 | 6916 | 26824 | 10334 | 2414 | 8365 | 159 | 3107 | 28642 | 230 | 53250 | 80074 |
| $Shale^{\#}$ | '000 tonnes | 13852 | • | ı | 13852 | • | · | ı | ı | | ' | • | ' | 13852 |
| Talc -Steatite | | | | | | | | | | | | | | |
| Soapstone [#] | '000 tonnes | 1 | ı | | ' | | | ı | , | | 20 | | 20 | 20 |
| Figures roun # Declared a ## Minor Mi | ded off. s Minor Miv verals befor | nerals vide e Gazette | s Gazette . Notificati | Notificatio on dated 1 | n dated 1. 0 02 2015 | 0.02.2015 | | | | | | | | |

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

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| Agency/ | ency/ Location Mapping Drilling | | Remarks | | | | |
|---|---|---------|-----------------|---------------------|----------|-------|--|
| District | Block | Scale | Area (sq km) | No. of boreholes | Meterage | (No.) | Reserves/Resources estimated |
| GSI Coal Bhadradri- Kothagudem | Sambayagudem block, South- eastern part of Godavari Valley Coalfield, | 1:10000 | 25.0 | 04 | 1954.70 | - | G3 stage preliminary exploration for coal was carried out in Sambayagudem block, South-eastern part of Godavari Valley Coalfield, Bhadradri- Kothagudem district. An area of 25 sqkm was mapped on 1:10,000 scale and 1,954.70 m of drilling in four borehole were completed. Barakar and Lower Kamthi Formations are coal- bearing in the area. Five numbers of Lower Kamthi coal seams zone have been intersected in the boreholes between the depth range of 245.65 m and 470.40 m with individual coal thickness varying from 0.50 m to 1.45 m. The two Barakar coal seams zone have been intersected in the boreholes between the depth range of 475.11 m and 671.20 m with individual coal thickness varying from 0.50 m to 1.18 m. The quality of coal is mostly of power grade to superior- grade coal. The exploration will continue in field season 2019-20. |
| Iron Ore Karimnagar Peddapalli and Jagtial | Ragampet and Dumalkunta blocks | 1:12500 | 5 | - | | _ | Reconnaissance survey (G4) was taken up to explore iron ore potential in Ragampet and Dumalkunta blocks in Karimnagar, Peddapalli and Jagtial districts. In both the blocks, iron ore was found to occur as banded magnetite quartzite (BMQ) band(s) and was observed to be restricted to the top of the hills and mounds. The iron bands are found as bouldery outcrops and are discontinuous in nature. BMQ bands with variable width, length and strike were found to consist of micro to macrobands of magnetite. Iron to silica ratio showed variations from 1:2 to 1:5. Grunerite was found in variable proportion along with quartz and magnetite within BMQ. Disseminated magnetite grains (contd) |

Table -3 : Details of Exploration Activities in Telangana, 2018-19

| Agency/ | Location | Maj | oping | Dri | lling | G 1' | |
|------------|---------------------|-------|-----------------|---------------------|----------|-------|--|
| District | Area/ Block | Scale | Area (sq km) | No. of boreholes | Meterage | (No.) | Remarks Reserves/Resources estimated |
| | | | | | | | and magnetite inclusions were found within grunerite. A total of 15 hills bearing BMQ in Dumalkunta and Ragampet blocks were mapped on 1:12,500 scale. Length of iron bands showed range variations from 50 m to 850 m with average width of 15 m. Kammarikhanpet and Pattipaka Hill-I and Hill-2 were the major BMQ-bearing hills of Ragampet block. Kammarikhanpet Gutta (Hill) and Pattipaka Hill -1 was found to host a single linear BMQ band of strike length 950 m and 300 m respectively with average width of 25 m. In Pattipaka Hill- 2, Band-II was observed as major band of 250 m length and 59 m width. The chemical analysis of BMQ samples showed Fe content in the range of 30-35% and silica from 40-50%. Five scout boreholes were drilled (two in Dumalkunta block and three in Ragampet block). Surface mineralised zones that were intersected in boreholes and in most of mineralised zones were found divided into number of smaller bands. |
| Karimnagar | Gollapalli block | | | | | | Reconnaissance survey (G4) carried out for iron ore in Gollapalli block, Karimnagar district comprised Large-Scale Mapping of 100 sqkm area on 1:12,500 scale. A total of 26 BMQ bands having length varying from 70 to 600 m and width varying from 5 to 60 m were identified. Only 3 bands were with length more than 400 m and average width of 50 m. The BMQ bands were found to have alternate magnetite and silica-rich layers in 25:75. The petrographic study revealed the main ore as magnetite and associated gangue minerals were quartz, grunerite and orthopyroxene. The iron bearing silicates (grunerite, orthopyroxene) contributed less than 5% of the total iron content |

| Agency/ | Location | Mapı | oing | Dri | lling | a 1' | D | | |
|---|---|---------|-----------------|---------------------|----------|-------------------|---|--|--|
| Mineral/ District | Area/ Block | Scale | Area (sq km) | No. of boreholes | Meterage | Sampling (No.) | Remarks Reserves/Resources estimated | | |
| DEE | | | | | | | in BMQ and up to 10% of the magnetite grains were found altered along the boundaries & fracture planes into martite. The analytical results of BRS samples showed Fe ₂ O ₃ value varying from 14.53% to 59.07% with an average of 44.34% Fe. The SiO ₂ was found to range from 28.58 to 82.84% and Al ₂ O ₃ from 0.05 to 7.68%. The average Fe ₂ O ₃ :SiO2+Al ₂ O ₃ ratio is 44.35%:50.3%. The Fe values of the BMQ samples were found varying from 10.1% to 41.3% with an average of 31.03%. Considering the prognosticated depth of 10 m and average bulk densit as 3.37, the inferred resource is expected to be estimated to the tune of 3.40 million tonnes with average Fe content of 31.03%. It is of low-grade iron ore with high silica and alumina. A carbonatite body about 1 km east of Village Rapalli of 200 m length and width varying from 2 to 3 m was identified. From the Scanning Electron Microscope study, different mineral phases like calcite, dolomite, magnetite and Ti-Y-rich REE phase were identified. | | |
| REE Nagarkurnool and Nalgonda | Around Chandampet and Kalwakurthy area | 1:12500 | 100.0 | - | - | - | Reconnaissance survey for REE mineralisation in granitoids of Peninsular Gneissic Complex around Chandampet, Kalwakurthy area in parts of Nagarkurnool and Nalgonda districts was taken up by covering an area of 100 sq. km by Large- Scale Mapping on 1:12,500 scale. SEM studies confirmed presence of REE-bearing trace minerals like sphene, apatite, epidote etc. in the granites and pegmatites of the area. | | |
| Diamond Mahabubnagar and Vikarabad | Kodangal- Parigi blocks | 1:50000 | 750.0 | - | - | 443 | A reconnaissance survey for primary source rocks of diamond was carried out in Kodangal- Parigi blocks, Mahabubnagar and Vikarabad districts. Aerial Reconnaissance and Satellite (contd) | | |

| Agency/ | Location | Mapp | oing | Dri | lling | ~ // | |
|------------------------------|--------------------------------------|----------|-----------------|---------------------|----------|-------------------|---|
| Mineral/ District | Area/ Block | Scale | Area (sq km) | No. of boreholes | Meterage | Sampling (No.) | Remarks Reserves/Resources estimated |
| | | | | | | | imagery study of 1,500 sqkm and field reconnaissance survey of 750 sqkm were carried out on 1:50,000 scale with collection of 206 stream sediment samples, 206 heavy mineral samples and 5 petrological samples and 5 petrochemical samples. Systematic orientation stream sediment sampling was carried out in Parigi block to narrow down the target area. Heavy mineral concentrates were prepared and picked for Kimberlite Indicator Minerals. The garnets recovered from the Parigi block were non- kimberlitic in nature. The study of clasts >1.25 mm size and heavy mineral studies of stream sediment samples did not yield any diamond. The primary source rocks of diamond or kimberlite clan rocks could not be located. |
| DGM Limestone Suryapet | Cluster -1, Mellacheruvu block | 1:125000 | 63.51 | - | - | 157 | G4 stage exploration in the area was taken up under NMET fund. |
| | Cluster -2, Mettampalli block | 1:125000 | 16.07 | - | - | 60 | G4 stage exploration in the area was taken up under NMET fund. |
| | Cluster -3, Raghunathpuram | 1:125000 | 51.10 | - | - | 179 | G4 stage exploration in the area was taken up under NMET fund. |
| | Cluster -5, Ramapuram | 1:125000 | 61.37 | - | - | 36 | G4 stage exploration in the area was taken up under NMET fund. |
| | Cluster -6, Dondapadu | 1:125000 | 51.40 | - | - | 88 | G4 stage exploration in the area was taken up under NMET fund. |
| Nalgonda | Cluster -4, Damarcherla | 1:125000 | 19.86 | - | - | 52 | G4 stage exploration in the area was taken up under NMET fund. |
| Vikarabad | Cluster -7, Jeewangi | 1:125000 | 17.72 | - | - | 18 | G4 stage exploration in the area was taken up under NMET fund. |
| | Cluster -8, Malkapur | 1:125000 | 22.96 | - | - | 21 | G4 stage exploration in the area was taken up under NMET fund. |

(contd)

| Agency/ | Location | Map | ping | Dri | illing | | |
|---|---|---------------|-----------------|---------------------|----------|-------------------|--|
| Mineral/ District | Area/ Block | Scale | Area (sq km) | No. of boreholes | Meterage | Sampling (No.) | Remarks Reserves/Resources estimated |
| Suryapet | Sultanpur RF block, Mattampalli Mand | 1:5000 al | 1.36 | 3 | 130.00 | 142 | During G3 level exploration, a net in-stu resources of 80.21 million tonnes were estimated under UNFC code 333. |
| | Pasupulabodu RF block, Nereducherlai Man | 1:5000 dal | 1.39 | 3 | 108.00 | 95 | During G3 level exploration, a net in-stu resources of 41.68 million tonnes were estimated under UNFC code 333. |
| | Siadulnama RF block, Palakeedu Mandal | 1:5000 | 1.70 | 3 | 127.00 | 136 | During G3 level exploration, a net in-stu resources of 71.86 million tonnes were estimated under UNFC code 333. |
| The Singaren | i Collieries Compa | any Ltd. | (SCCL) | | | | |
| Adilabad, Khammam, Karimnagar and Warangal | Lingala- Koyagudem, Anisettipalli- Monubothulagude, Sattupalli- Chintalapudi, Ramagundem, Mulug, Dorli- Belampalli, Somagudem- Indaram Kaghaznagar coal belts | | 11.50 | 326 | 99544.0 | | During 2018-19, SCCL explored the area to locate the presence of economic viable coal deposits and established its nature, shape and grade. An area of 11.50 sqkm was mapped in Lingala-Koyagudem coal belt, Kothagudem coal belt, Anisettipalli-Monubothulagude, Sattupalli-Chintalapudi coal belt, Manuguru-Cherla coal belt, Ramagundem coal belt, Mulug coal belt, Dorli-Belampalli coal belt, Somagudem-Indaram coal belt, Somagudem-Indaram coal belt and Kaghaznagar coal belt. A total of 326 exploratory boreholes were drilled to a cumulative depth of 99,544.0 m and resources of 156.60 million tonnes with cumulative resources at the end of 2018-19 at 10,622.32 million tonnes were established. The exploration work was carried out in the SCCL command area situated in Adilabad, Khammam, Karimnagar and Warangal districts of Telangana State. |
| Dolomite Khammam | Madharam dolomite mine (384.46 ha), Madharam village, Karepally Taluka | - | - | 20 | 1000.00 | - | The tentaive total geological resources has been estimated at about 80 million tonnes. The final reserves/resources estimation are in progress. |

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| | | | | | | | | | (Val | ue in ₹'000) |
|------------------|-------|-----------------|-------|--------------------|-----------------|-------|--------------------|-----------------|-------|--------------------|
| | | | 2016- | 17 | | 2017- | 18 | | 2018- | 19 (P) |
| Mineral | Unit | No. of mines | Qty | Value ^s | No. of mines | Qty | Value [§] | No. of mines | Qty | Value ^s |
| All Minerals | | 34 | | 116783984 | 36 | 1 | 13287672 | 36 | | 113877664 |
| Coal | '000t | - | 61336 | - | - | 62010 | - | - | 65160 | - |
| Iron Ore | '000t | - | - | - | - | 6 | 4514 | - | 2 | 1290 |
| Manganese Ore | t | 5 | 13262 | 66514 | 5 | 17373 | 80232 | 6 | 10295 | 57065 |
| Limestone | '000t | 29 | 24720 | 4959547 | 31 | 27367 | 5464824 | 30 | 30895 | 6081207 |
| Minor Minerals @ | | - | - | 111757923 | - | -1 | 07738102 | - | - | 107738102 |

Table – 4: Mineral Production in Telangana, 2016-17 to 2018-19 (Excluding Atomic Minerals)

\$ Excluding fuel minerals.

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

| Industry/plant C ('0 | Capacity 000 tpy) | Industry/plant | Capacity ('000 tpy) |
|---|------------------------|---|------------------------|
| Aluminium Foil | | | 2200 |
| Hindalco, Kollur, Medak | 4 | My Home Cement Industries Ltd, Mellacheruruvu, Distt Nalgonda | 3300 |
| Asbestos Products | | NCL Industries Ltd, Simhapuri, DisttSuryapet | 2000 |
| Bhagyanagar Wood Plast Ltd, Nandikandi, Distt Medak | 60 | Orient Cement, Devapur, Distt Adilabad Penna Cement Industries Ltd. Tandur | 3000 2000 |
| Hyderabad Industries Ltd, Sanathnagar, Distt Rangareddy | 160 | Distt Rangareddy | 2000 |
| Hyderabad Industries Ltd, Thimmapur | 230 | Penna Cement Industries Ltd, Ganeshpahad, Distt Nalgonda | 1200 |
| J.J. Spun Pipe Industries, Arsapalli, Distt Nizamabad | 4.5 | Rain Commodities Ltd (Rain Cements), | 4000 |
| Visaka Industries Ltd, Medak | 36 | Sagar Comanta Ltd. Mattampally, Diatt Nalgonda | 2650 |
| Bleaching Clay | | Sagar Cements Ltd, Mattampally, Dist Nalgonda | 1000 |
| Ashapura Clay Tech. Ltd, 20 (Fuller's earth g Dharur, Distt Rangareddy 15 (Bentonite g | granules) granules) | Zuari Cements Ltd (Sri Vishnu Cements Works), Dondapadu, Sitapuram, Distt Nalgonda | 1200 |
| Cement | | Ceramic/Sanitaryware | |
| Anjani Portland Cements Ltd (Subs. of Chettinad Cement), Anjanipuram, Distt Nalgonda | 1200 | Hindustan Sanitaryware & Industries Ltd, Bibinagar Distt Nalgonda | 1.8 |
| CCI Ltd, Tandur, Distt Rangareddy 100 | | Montana International Ltd. Faralwadi | 3.6 |
| Bheema Cement Nalgonda | 900 | Distt Medak | 5.0 |
| Greygold Cement Nalgonda | 90 | Restile Ceramics Ltd, Malkapur. | 1.4 |
| Deccan Cements Ltd, Bhavanipuram, | 2300 | Distt Medak | (mill. sq m) |
| Distt Nalgonda | | Fertilizer | |
| India Cement Ltd, Malkapur Distt Rangareddy | 2400 | Chemtech Fertilizers Ltd, Kazipalli, Medak | 33 (SSP) |
| India Cement (Raasi Cements), Vishnupuram Distt Nalgonda | 3500 | Sponge Iron | |
| Keerthi Industries Ltd, Mellacheruvu, Distt Nalgonda | 590 | Ashirwad Steels & Ind. Ltd, Veliminedu, Distt Nalgonda | 60 |
| Kesoram Cement, Basantnagar, Distt Karimnagar | 6000 | Anand Metallics & Power Pvt. Ltd, Kodi Cherla, Distt Mahabubnagar | 24 |
| Mancherial Cement Co. (P) Ltd, Mancherial, Distt Adilabad | 330 | Binjusaria Sponge & Power Pvt. Ltd, Farooq Nagar, Distt Mahabubnagar | 30 |

Table – 5 : Principal Mineral-based Industries

(contd)

(contd)

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| Table - 5 (contd) | |
|--|------------------------|
| Industry/plant | Capacity ('000 tpy) |
| Lakshmi Gayatri Iron & Steel, Kethepally Distt Nalgonda | 60 |
| NMDC (Sponge Iron Division), Paloncha, Khammam. | 60 |
| Reactive Metals of India Ltd, Appajipally Distt Mahabubnagar. | 36.5 |
| Sunder Steels Ltd, S.D. Road, Secunderabad. | 36 |
| Ferro-alloys | |
| Nav Bharat Ferro Ventures Ltd, Paloncha, Distt Khammam. | 125 |
| | (contd) |

Table - 5 (concld)

| Industry/plant | Capacity ('000 tpy) |
|--|------------------------|
| Shree Raghvendra Ferro alloys Pvt Ltd, Nalgond | a. 15 |
| VBC Ferro Alloys Ltd, | 48 (silico- |
| Rudraram, Distt Medak. | manganese) |
| | 32.4 (ferro |
| | manganese) |
| Refractory | |
| MPR Refractories Ltd, Medak. | 9.5 |
| Raasi Refractories, Narketapally, Distt Nalgonda | . 35 |

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, respectively.