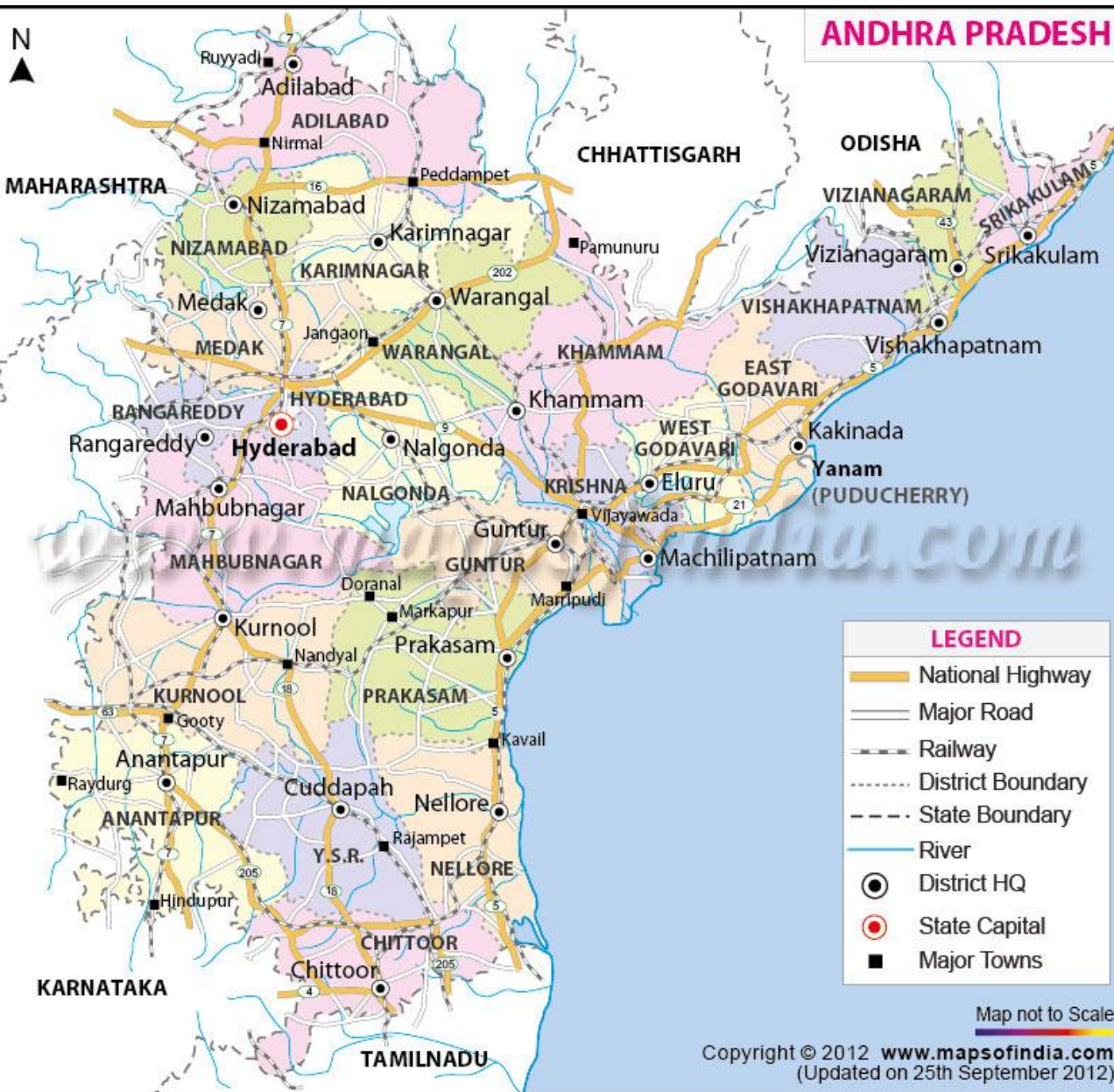


ANDHRA PRADESH



Map not to Scale

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(Updated on 25th September 2012)

DISTRICT WISE SUMMARY OF LEASE SIZE, STATUS AND LAND OVER WHICH LEASE IS GIVEN

To know more about a particular district, click the hyperlink.												
District	Lease Area		Status of Leases			Largest Lease	Smallest lease	Mining Lease Over				
	<5 hec.	>5 hec.	Working	N Working	Others			Govt. Land	Patta Land	Forest land	Govt. & Patta Land	Forest & Patta Land
Srikakulam	1	10	7	5		719.445	4					
Tekkali	Lease period of limeshell is ending in December 2012. This is the only lease mentioned for the district											
Vizianagaram	25	66	59	19	5	323	0.73	69	3	15 on Kondaporam boke		
Vishakhapatnam	14	16		20		50.74	0.15	24	4			
Anakapalli	9	10	0	19		33.294	1.185		3	Rydwari Patta Land (3), Zerayati land (8), Patta land (3), Konda Paramboke (3), Banzar Land (2)		
East Godavari	43	11	32	22		54.23	0.453	16	38			
West Godavari	19	14	23	10		42.651	0.842	11	22			
Krishna	10	0	4	5		4.237	0.441	1	8			
Nandigama	7	13	10	10		1295	2.121	-	-	-	-	-
Dachepalli	18	33	25	26		2003.4	2.121	-	-	-	-	-
Nellore	83	202	246	55		136.945	0.630	229	60			
Prakasam	18	4	11	11		526.315	0.485	20	2			
Ananthapur	17	33	19	30		157.495	0.850	45	5			
Tadipatri	49	77	68	58		649.684	0.506	-	-	-	-	-
Kurnool	144	139	203	80		1260.33	0.570	215	56	6	6	
Banaganapali	20	31	26	25		95.848	0.486	27	12	1	10	
Chittoor	3	5	0	8		15.33	1	-	-	-	-	-
Palamaneru	8	6	6	8		52.810	1.336	14				
Cuddapah	32	67	60	8	30#	353.226	0.243	80	17	3		
Yerraguntla	80	77	157	1		813.412	0.17	145	6		6	
Warangal	11	22	16	10	7#	2405.9	1.20	1	29		2	1
Khammam	9	14	8	15		383	0.5	23	9	10#		1
Kothagudem	15	28	25	18		5158	0.874	23	9	10		1
Karimnagar	3	13	16	0		6768	1.31	10	1	3		
RR Nagar, Hyderabad	14	7	10	11		25.091	0.482	16	5			
Tandur	12	27	29	10		613.790	0.405	34	2			

Nalgonda	12	8	4	16		25.90	0.607	17	3			
Miryalaguda	12	36	33	14		770.23	1	23	20	3		
Adilabad	13	64	52	23	2s			38	22		2	1
Medak	17	17	25	15		24.291	1.295	39	1			
Nizamabad	7	5	4	8		22.7	2.146	10	2			
Mahboobnagar	89	46	54	84		61.177	0.534	102	33			
Total	814	2001	1232	644				1232	372	36+	26+	4
	<5 hec.	>5 hec.	Working	N Working	Others	Largest Lease	Smallest lease	Govt. Land	Patta Land	Forest land	Govt. & Patta Land	Forest & Patta Land
District	Lease Area		Status of Leases					Mining Lease Over				

Number of Mineral Wise Leases at District Level

District	Minerals under leases
Vizianagaram	Lime kankar (, 115.583); Manganese (, 1043.689) Quartzite / quartz (, 542.042)
Vishakhapatnam	Calcite and mica (4), calcite (1), laterite (4), Quartz (7), White Clay (4), SP Stones (5), Limestone, Mica, Calcite (1)
Anakapalli	Laterite (4), SPS (13), White Clay and Beach Minerals (1 each)
East Godavari	Fireclay – 23, China Clay – 13, Laterite – 18
West Godavari	Ball Clay – 26, Fireclay & Quartz - 7
Krishna	Quartz - 9
Nandigama	Limestone – 15, Iron ore - 5
Dachepalli	Limestone – 34, Quartz – 14, Laterite, White Clay, Slate Stone – 1 each
Nellore	Silica Sand (74, 1197.581), Quartz (70, 830.482), Quartz & Feldspar (19, 237.026), Mica, Quartz, Feldspar, Vermiculite (86, 1588.16) Barytes (4, 49.565), Limeshell (3, 83.637), Iron ore (2, 222.20), Laterite (13, 72.819), Vermiculite (7, 126.03), Mica (27, 606.926)
Prakasam	Silica Sand – 13, Garnet – 4, Quartz - 4
Ananthapur	Iron ore - 8, White Quartz – 20, Pyrophyllite – 3, Corundum – 2, Steatite – 3, Dolomite -3
Tadipatri	Associated Minerals – 8, Barytes – 2, Calcite – 1, Dolomite – 57, Limestone – 28 (other minerals like dolomite), Quartz – 3, Steatite, Dolomite, Clay – 28
Kurnool	Barytes – 4, China clay – 1, Dolomite -33, Dolomite & others – 24, Iron ore – 28 (Including others), Limestone – 55 (including others like Steatite etc.), Quartz – 13, Quartzite – 3, Silica sand – 13, Silica Sand with others – 17, Steatite – 26, Steatite with Dolomite and Others – 35, White Shale with Others – 19, Yellow ochre & Others – 12
Banaganapali	Limestone – 48, Quartz, White shale, Barytes - 3
Chittoor	Quartzite – 2, Quartz - 4, Pyrophyllite - 2
Palamaneru	Quartz - 8, Quartz & Feldspar - 2, White Clay – 2, Pyrophyllite – 1, White Shale – 1
Cuddapah	Barytes & Grey Barytes– 25, Lead – 1, Clay – 14, Dolomite – 6, Feldspar – 13, Shale – 1, Iron ore – 8, Limestone – 5, Pyrophyllite – 5, Quartz - 14, Quartz & Feldspar – 3, Others – 3
Yerraguntla	Asbestos – 5, Barytes – 94, Clay – 2, Dolomite – 13, Laterite – 1, Limestone – 18 (high grade & cement grade), Quartzite – 5, Shale – 6, Steatite – 1, Uranium – 1, Yellow ochre – 11
Warangal	Coal – 7, Dolomite – 3, Laterite – 22 (laterite with others – 4), Quartz – 1
Khammam	Barytes – 1, Corundum – 3, Dolomite – 7, Iron ore – 3, Mica – 1, Quartz – 6, Coal – 2
Kothagudem	Barytes – 4, Dolomite – 3, Feldspar – 3, Garnet – 4, Iron ore – 3, Quartz – 11, Laterite – 1, Coal – 12, Stowing Sand – 2
Karimnagar	Coal – 4, Iron Ore – 2, Limestone – 2, Quartz – 1, Quartz & Feldspar – 1, Silica sand – 1, Stowing Sand – 5

RR Nagar, Hyderabad	Amethyst – 3, Quartz – 7, Quartz & Feldspar – 11
Tandur	Clay – 2, Fireclay – 2, Laterite – 19, Limestone – 6, quartz & Feldspar – 9, Shale – 1
Nalgonda	Quartz – 11, Quartz & Feldspar – 9
Miryalaguda	Laterite – 5, Laterite & Limestone – 2, Limestone – 35, Quartz – 3, Shale – 2, Not Mentioned – 1
Adilabad	Coal – 16, Laterite – 3, Limestone – 14, Manganese ore – 14, Quartz – 2, Stowing Sand ⁱⁱ – 6, White Clay – 20
Medak	Amethyst & Quartz – 1, Laterite – 10, Quartz – 16, Quartz & Feldspar – 13
Nizamabad	Laterite – 4, Quartz & Feldspar – 6, Iron Ore – 1
Mahboobnagar	Feldspar – 3, Quartz – 23, Quartz & Feldspar – 111, Soapstone - 1

ADMG WISE DISTRICT SUMMARY SHEET

ADMG, SRIKAKULAM

1. Beach sand leases have been granted for 30 years. Mining plans prepared and submitted in 2005.
2. Out of 12 leases mentioned, information on approved mining plan is available for 5 leases only.
3. Working Mines = 7; Non Working Mines = 5
4. One lease i.e. Durga Minerals for lime kankar is on patta land (5.85 hectare)
5. 224.319 hectares is the total lease area of 12 leases in Srikakulam
6. <5 hectares – 01, > 5 hectares – 10
7. Largest lease – 719.445 hectares (beach sand near confluence of vamsadhara river)
8. Smallest lease – 4 (Quartz & feldspar)

ADMG, TEKKALI

1. Lease period of limeshell is ending in December 2012. This is the only lease mentioned for the district.

ADMG, VIZIANAGARAM

2. Majority of the leases in the district are of Manganese (38 leases), Quartzite & Quartz (35 leases), lime kankar (15), three leases of sand and one of graphite.
3. Out of 91 leases, majority of leases i.e. 69 are on government land, 3 on patta land, 15 on Kondaporam boke.
4. 115.583 hectares under lime kankar; 1043.689 hectares under manganese; 542.042 hectares under quartzite / quartz.

5. Total lease area = 1817.38 hectares
6. Working mines = 59; Non working = 19; Surrender applied = 5;
7. <5 hectares – 25, > 5 hectares – 66
8. Largest lease – 323 hectares (Manganese)
9. Smallest lease – 0.73 (lime kankar)

ADMG, Vishakhapatnam

Majority of the leases (24 out of 28) are over government land (hill paramboke, revenue land), rest of them are patta lands

Total lease area = 268 hectares

20 are non-working leases

Leases- calcite and mica (4), calcite (1), laterite (4), Quartz (7), White Clay (4), SPStones (5), Limestone, mica, calcite (1)

<5 hectares – 14, > 5 hectares – 16

Largest lease – 50.74 hectares (Quartz)

Smallest lease – 0.15 (semi precious stones)

ADMG, ANAKAPALLI

Ryatwari Patta Land (3), Zerayati land (8), Patta land (3), Konda Paramboke (3), Banzar Land (2)

Total lease area – 193 hectares

Leases – Laterite (4), SPS (13), White Clay and Beach Minerals (1 each)

All leases (19) are not working.

<5 hectares – 9, > 5 hectares – 10

Largest lease – 33.294 hectares (Semi Precious Stones)

Smallest lease – 1.185 (semi precious stones)

ADMG, East Godavari

Lease area – 326.256 hectares

Govt. Land – 16, Patta Land – 38 (70% leases on Patta land)

Working – 32, Not Working – 22

Fireclay – 23, China Clay – 13, Laterite – 18

<5 hectares – 43, > 5 hectares – 11

Largest lease – 54.23 hectares (Laterite)

Smallest lease – 0.453 (fireclay)

ADMG, West Godavari

Lease area – 292.114

Govt. Land – 11, Patta land – 22

Working – 23, Not Working – 10

Ball Clay – 26, Fireclay & Quartz - 7

<5 hectares – 19, > 5 hectares – 14

Largest lease – 42.651 hectares (Ball Clay)

Smallest lease – 0.842 (ballclay)

Some leases which have expired but are working under Rule 24A(1) of APMMC Rules 1966

Proposals submitted under Rule 28(1) of MC Rule [cell 355]

ADMG, Krishna

Lease area – 22.929

Govt. Land – 01, Patta land – 08

Working – 04, Not Working – 05

Quartz - 9

<5 hectares – 10, > 5 hectares – 0

Largest lease – 4.237 hectares

Smallest lease – 0.441

ADMG, Nandigama

Lease area – 2621.200

No details about whether lease on government land or any other land

Working – 10, Not Working – 10

Limestone – 15, Iron ore - 5

<5 hectares – 7, > 5 hectares – 13

Largest lease – 1295 hectares (Limestone, RINL)

Smallest lease – 2.121

ADMG, Dachepalli

Lease area – 6128.7867 (lease area under limestone is 5889.93 hectares)

No details about whether lease on government land or any other land

Working – 25, Not Working – 26

Limestone – 34, Quartz – 14, Laterite, White Clay, Slate Stone – 1 each

<5 hectares – 18, > 5 hectares – 33

Largest lease – 2003.4 hectares (Limestone, Sanghi cements)

Smallest lease – 2.121

ADMG, Nellore

Lease area – 5064.675 (Silica Sand – 1197.581, Quartz - 830.482, Quartz & Feldspar - 237.026, Mica, Quartz, Feldspar, Vermiculite & Garnet – 50.234, Mica, Quartz, Feldspar, Vermiculite – 1588.165, Barytes – 49.565, Limeshell – 83.637, Iron Ore – 222.209, Laterite - 72.819, Vermiculite – 126.031, Mica – 606.926)

Overall, 60 leases on patta land, 229 leases on government land,

Working mines – 246; Non working - 55

Silica Sand – 74, Quartz – 70, Quartz & Feldspar – 19, Mica, Quartz, Feldspar, Vermiculite – 86, Barytes – 4, Limeshell – 3, Iron ore – 2, Laterite – 13, Vermiculite – 7, Mica - 27

Silica Sand

<5 hectares – 9, > 5 hectares – 65 [max. 136.945 & min. 2.914 lease size)

Quartz

<5 hectares – 21, > 5 hectares – 49 [max. 84.358 & min. 0.841 lease size)

Quartz & Feldspar

<5 hectares – 9, > 5 hectares – 10 [max. 40.469 & min. 1.011 lease size)

Mica +3

<5 hectares – 28, > 5 hectares – 58 [max. 124.806 & min. 30.801 lease size)

Barytes

<5 hectares – 1, > 5 hectares – 3 [max. 32.335 & min. 4.678 lease size)

Laterite

<5 hectares – 8, > 5 hectares – 5 [max. 16.68 & min. 2.323 lease size)

Mica

<5 hectares – 7, > 5 hectares – 20 [max. 53.02 & min. 0.630 lease size)

ADMG, Prakasam

Lease area – 591.376

Patta Land – 2, Govt. Land - 20

Working – 11, Not Working – 11

Silica Sand – 13, Garnet – 4, Quartz - 4

<5 hectares – 18, > 5 hectares – 4

Largest lease – 526.315 hectares (Iron Ore, APMDC)

Smallest lease – 0.485 (Silica Sand)

ADMG, Ananthapur

Lease area – 1035.878

Patta Land – 5, Govt. Land - 45

Working – 19, Not Working – 30

Iron ore - 8, White Quartz – 20, Pyrophyllite – 3, Corundum – 2, Steatite – 3, Dolomite -3

<5 hectares – 17, > 5 hectares – 33

Largest lease – 157.495 hectares (Pyrophyllite)

Smallest lease – 0.850 (White Quartz)

ADMG, Tadipatri

<5 hectares – 49, > 5 hectares – 77

Largest lease – 649.684 hectares (Limestone, Thrishul Cement)

Smallest lease – 0.506 (Limestone)

Working – 68, Not Working – 58

Classification of land not provided

Associated Minerals – 8, Barytes – 2, Calcite – 1, Dolomite – 57, Limestone – 28 (other minerals like dolomite), Quartz – 3, Steatite, Dolomite, Clay – 28

ADMG, Kurnool

<5 hectares – 144, > 5 hectares – 139

Largest lease – 1260.33 hectares (Limestone, Rain Industries Ltd.)

Smallest lease – 0.57 (Steatite)

Working – 203, Not Working – 80

Forest land – 6, Government & Patta Land – 6, Government land – 215, Patta land – 56

Barytes – 4, China clay – 1, Dolomite -33, Dolomite & others – 24, Iron ore – 28 (Including others), Limestone – 55 (including others like Steatite etc.), Quartz – 13, Quartzite – 3, Silica sand – 13, Silica Sand with others – 17, Steatite – 26, Steatite with Dolomite and Others – 35, White Shale with Others – 19, Yellow ochre & Others – 12

ADMG, Banaganapali

<5 hectares – 20, > 5 hectares – 31

Largest lease – 95.848 hectares (Limestone, Grasim Industries)

Smallest lease – 0.486 (Limestone)

Not Working – 25, Working – 26

Forest land – 1, Government & Patta Land – 10, Government land – 27, Patta land – 12, Not mentioned – 1

Limestone – 48, Quartz, White shale, Barytes - 3

ADMG, Chitoor

<5 hectares – 3, > 5 hectares – 5

Largest lease – 15.3336 hectares (Quartzite)

Smallest lease – 1 (Feldspar& Quartz)

Not Working – 8, Working – 0

Government land – 0

Quartzite – 2, Quartz - 4, Pyrophilite - 2

ADMG, Palamaneru

<5 hectares – 8, > 5 hectares – 6

Largest lease – 52.810 hectares (Feldspar& Quartz)

Smallest lease – 1.336 (Quartz)

Not Working – 8, Working – 6

Government land – 14

Quartz - 8, Quartz & Feldspar - 2, White Clay – 2, Pyrophilite – 1, White Shale – 1

ADMG, Cuddapah

<5 hectares – 32, > 5 hectares – 67, Not Mentioned – 1

Largest lease – 352.226 hectares (Clay Whiteshale, Limestone, Blocks & Slabs, Marble)

Smallest lease – 0.243 (Barytes)

Not Working – 8, Working – 60, Not Working [applied under 28(1)] – 28, Expired – 1, Lease Surrendered – 1,

Forest Land – 3, Government land – 80, Patta land - 17

Barytes & Grey Barytes– 25, Lead – 1, Clay – 14, Dolomite – 6, Feldspar – 13, Shale – 1, Iron ore – 8, Limestone – 5, Pyrophilite – 5, Quartz - 14,

Quartz & Feldspar – 3, Others – 3

ADMG, Yerraguntla

<5 hectares – 80, > 5 hectares – 77

Largest lease – 813.412 hectares (Uranium, UCIL, Working)

Smallest lease – 0.17 (Barytes)

Not Working – 1, Working – 157

Government land – 145, Patta land – 6, Patta and Govt Land - 6

Asbestos – 5, Barytes – 94, Clay – 2, Dolomite – 13, Laterite – 1, Limestone – 18 (high grade & cement grade), Quartzite – 5, Shale – 6, Steatite – 1, Uranium – 1, Yellow ochre – 11

ADMG, Warangal

< 5 hectares – 11, > 5 hectares – 22

Largest lease – 2405.9 hectares (Coal, Singareni Collieries)

Smallest lease – 1.2 (Laterite & Clay)

Not Working – 10, Working – 16, Not Mentioned – 7 (all coal)

Government land – 1, Govt. & Patta Land – 2, Patta & Forest land – 1, Patta land – 29

Coal – 7, Dolomite – 3, Laterite – 22 (laterite with others – 4), Quartz – 1

ADMG, Khammam

< 5 hectares – 9, > 5 hectares – 14

Largest lease – 383 hectares (Coal, Singareni Collieries)

Smallest lease – 0.5 (Quartz)

Not Working – 15, Working – 8

Government land – 11, Patta land – 12

Barytes – 1, Corundum – 3, Dolomite – 7, Iron ore – 3, Mica – 1, Quartz – 6, Coal – 2

ADMG, Kothagudem

< 5 hectares – 15, > 5 hectares – 28

Largest lease – 5158 hectares (Coal, Singareni Collieries)

Smallest lease – 0.874 (Quartz)

Not Working – 18, Working – 25

Forest & Govt. land – 5, Forest Land – 5, Government land – 23, Patta land – 9, Patta & Forest land - 1
Barytes – 4, Dolomite – 3, Feldspar – 3, Garnet – 4, Iron ore – 3, Quartz – 11, Laterite – 1, Coal – 12, Stowing Sand – 2

ADMG, Karimnagar

< 5 hectares – 3, > 5 hectares – 13
Largest lease – 6768 hectares (Coal, Singareni Collieries)
Smallest lease – 1.31 (Quartz)
Not Working – 0, Working – 16
Forest & Govt. land – 1, Forest Land – 2, Government land – 10, Patta land – 1, Not Mentioned - 2
Coal – 4, Iron Ore – 2, Limestone – 2, Quartz – 1, Quartz & Feldspar – 1, Silica sand – 1, Stowing Sand – 5

ADMG, RR Nagar (Hyderabad)

< 5 hectares – 14, > 5 hectares – 7
Largest lease – 25.091 hectares (Quartz)
Smallest lease – 0.482 (Quartz)
Not Working – 11, Working – 10
Government land – 16, Patta land – 5
Amethyst – 3, Quartz – 7, Quartz & Feldspar – 11

ADMG, Tandur

< 5 hectares – 12, > 5 hectares – 27
Largest lease – 613.790 hectares (Limestone, CCI India Ltd.)
Smallest lease – 0.405 (Laterite)
Not Working – 10, Working – 29
Government land – 34, Patta land – 2, Not Mentioned – 3
Clay – 2, Fireclay – 2, Laterite – 19, Limestone – 6, quartz & Feldspar – 9, Shale – 1

ADMG, Nalgonda

< 5 hectares – 12, > 5 hectares – 8
Largest lease – 25.90 hectares (Quartz)

Smallest lease – 0.607 (Quartz & Feldspar)
Not Working – 16, Working – 4
Government land – 17, Patta land – 3
Quartz – 11, Quartz & Feldspar – 9

ADMG, MIRYALAGUDA

< 5 hectares – 12, > 5 hectares – 36
Largest lease – 770.23 hectares (Limestone, Zuari Cements)
Smallest lease – 1 (Laterite)
Not Working – 14, Working – 33, Not mentioned - 1
Forest land – 3, Government land – 23, Patta land – 20, Not mentioned - 2
Laterite – 5, Laterite & Limestone – 2, Limestone – 35, Quartz – 3, Shale – 2, Not Mentioned – 1

ADMG, Adilabad

< 5 hectares – 13, > 5 hectares – 64
Largest lease – 16076.08 hectares (Coal, Singareni Collieries)
Smallest lease – 0.61 (White Clay)
Not Working – 23, Working – 52, Surrender - 2
Forest & Govt. land – 2, Forest & Patta Land – 1, Forest land – 2, Patta & Govt. Land – 2, Patta Land – 22, Government land – 38, R.F. – 2, Not mentioned - 8
Coal – 16, Laterite – 3, Limestone – 14, Manganese ore – 14, Quartz – 2, Stowing Sand – 6, White Clay – 20

ADMG, Medak

< 5 hectares – 17, > 5 hectares – 17, Not Mentioned – 2, **In Other units - 4**
Largest lease – 24.291 hectares (Quartzite & Feldspar)
Smallest lease – 1.295 (Laterite)
Not Working – 15, Working – 25
Government land – 39, Patta Land – 1
Amethyst & Quartz – 1, Laterite – 10, Quartz – 16, Quartz & Feldspar – 13

ADMG, Nizamabad

< 5 hectares – 7, > 5 hectares – 5
Largest lease – 22.7 hectares (Laterite)
Smallest lease – 2.146 (Quartz & feldspar)
Not Working – 8, Working – 4
Government land – 10, Patta Land – 2
Laterite – 4, Quartz & Feldspar – 6, Iron Ore – 1,

ADMG, Mahboobnagar

< 5 hectares – 89, > 5 hectares – 46, Not Mentioned - 3
Largest lease – 61.177 hectares (Quartz & feldspar)
Smallest lease – 0.534 (Quartz & feldspar)
Not Working – 84, Working – 54
Government land – 102, Patta Land – 33, Not Mentioned - 2
Feldspar – 3, Quartz – 23, Quartz & Feldspar – 111, Soapstone - 1

ⁱ **Associated minerals.** – The following shall be the group of associated minerals for the purposes of section 6 of the Act namely:-

(i) Apatite, Beryl, Cassiterite, Columbite, Emerald, Felspar, Lepidolite, Mica, Pitchblende, Quartz, Samarskite. Scheelite, Topaz, Tantalite, Tourmaline.

(ii) Iron, Manganese, Titanium, Vanadium and Nickel minerals.

(iii) Lead, Zinc, Copper, Cadmium, Arsenic, Antimony, Bismuth, Cobalt, Nickel, Molybdenum and Uranium minerals, and Gold and Silver, Arsenopyrite, Chalcopyrite Pyrite, Pyrrhotite and Pentlandite.

(iv) Chromium, Osmiridium, Platinum and Nickel minerals.

(v) Kyanite, Sillimanite, Corundum, Dumortierite and Topaz

(vi) Gold, Silver, Tellurium, Selenium and Pyrite..

(vii) Barytes, Fluorite, Chalcocite, Selenium and minerals of Zinc, Lead and Silver.

(viii) Tin and Tungsten minerals.

(ix) Limestone, Dolomite and Magnesite.

(x) Ilmenite, Monazite, Zircon, Rutile, [Leucoxene], Garnet and Sillimanite.

(xi) Sulphides of copper and iron.

(xii) Coal, Fireclay and Shale.

(xiii) Magnetite and Apatite.

(xiv) Magnesite and Chromite.

(xv) Talc, Soapstone and Steatite and Dolomite.

(xvi) Celestite, Phosphatic Nodules, Clay and Gypsum

ii **Sand not be treated as minor mineral when used for certain purposes.** – Sand shall not be treated as a minor mineral when used for any of the following purposes, namely:-

(i) purposes of refractory and manufacture of ceramic;

(ii) metallurgical purposes;

(iii) optical purposes;

(iv) **purposes of stowing in coal mines**

(v) for manufacture of silvitrete cement;

(vi) for manufacture of sodium silicate;

(vii) for manufacture of pottery and glass