

- (1) பக்கங்களின் எண்ணிக்கை 12
 (2) புதுக்கேத் திருப்பிய நாள் 21/8/21
 (3) ஆதாரக் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

8/5/21 துறை

அரசாணை எண்.	அச்சகம்
மு. கோப்புத் தாள் எண். 193	பலவகை
நாள் : 22-1-1924	199

மடிக்கவோ கண்டபடி கையாளவோ கூடாது.

6/5/21
TOL

ஆவண. கா. 1-18,006-6-9-90.

183
1

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following letter from Dr. H. WARTH, Officiating Superintendent, Government Central Museum, to the Secretary to Government, Revenue Department, dated Madras, 29th November 1893, No. 1506 :—

After reading the publication regarding manufacture of aluminium in the Madras Presidency in *Fort St. George Gazette*, October 17th, 1893, I have the honour to report as follows :—

In No. 5 Professor Roberts-Austen refers to the occurrence of corundum in Southern India. There is now a collection of specimens of pure corundum from 58 localities in 11 districts of the Madras Presidency, besides Mysore and Travancore, as per annexed list, and sample specimens would be available.

2. I also have the honour to forward a sample of a mineral which might serve for the purpose of aluminium extraction. I found it in more or less pure condition in almost unlimited quantity on the Palni hills, in the Madura district, not far from Periyár, and it very possibly occurs also at Periyár itself.

3. Dr. Van Geyzel, Chemical Examiner to the Government of Madras, has been kind enough to analyse the mineral and found the composition as follows :—

Insoluble in acid (chiefly Si O ₂)	...	...	...	...	...	15.5
Loss on ignition (chiefly H ₂ O)	...	...	...	...	...	83.3
Traces of lime, &c., by difference	...	...	...	...	...	1.6
Ferric oxide	...	...	...	...	...	1.3
Aluminium oxide	...	...	...	...	...	48.3
						100.0

4. The mineral ranges between bauxite and alophane. It is nearer to the latter theoretically. But as the bauxite used in practice is not always pure, it is very possible that this Kodaikáhal mineral may serve the purpose instead of bauxite.

5. I may mention that the *Scientific American* of September the 2nd gives as the raw material for aluminium a mineral of the following composition :—

Si O ₂	...	...	...	...	...	...	...	12.5
H ₂ O	...	...	...	...	...	...	...	0.4
Alkalis	...	...	...	...	...	...	...	4.7
Fe ₂ O ₃	...	...	...	...	...	...	...	0.6
Al ₂ O ₃	...	...	...	...	...	...	...	80.7
								98.9

6. The presence of silica in the Kodaikáhal mineral will therefore not prevent its use as the pure aluminium oxide can be extracted by chemicals.

7. Such chemicals although very difficult to procure in Southern India may possibly be produced by electric current, and then the Kodaikáhal mineral will prove a convenient aluminium ore.

Under Warrant
12/16 15/226
Part I

8. I thought it therefore advisable to place this occurrence on record, notwithstanding my having been informed by the Director, Geological Survey, that far purer hydrous oxides of aluminium occur elsewhere associated with corundum.

ENCLOSURE.

The following is a list of localities from which samples of corundum are at present in the Government Central Museum, Madras:—

1. Vizagapatam district, Kodur.
2. Gódvári district, hills north-west of Rajahmundry.
3. Kistna district, Guntúr.
4. Kurnool district, Purthykonda taluk.
5. Do. Chakalmury taluk.
6. Do. Ramallakot taluk, Munagala.
7. Bellary district, Adóni taluk.
8. Bellary district.
9. Anantapur district, Anantapur taluk, Siddarampuram.
10. Do. do. Atmakúru.
11. Do. do. Dundivaripalli.
12. Do. Dharmavaram taluk, Nutimadugu.
13. Do. do. Manirevu.
14. Do. do. Mathalacheruvu.
15. Do. do. Motarachintalapully.
16. Do. Pennkonda taluk, Cherukur.
17. Do. do. Nadimpully.
18. Do. Madakasira taluk, Sankaragulla.
19. Do. do. Kodigapalli.
20. Do. do. Manur.
21. Do. do. Karikeray.
22. Do. do. Byagaralapally.
23. Cuddapah district, Proddatur taluk.
24. North Arcot district, Kuppam.
25. Do. Chittoor, Thimajamma's estate.
26. Do. village six miles north-east of Gudiyáttam town.
27. Salem district, Kavandampatti.
28. Do. Dharmapuri taluk, Pennagaram.
29. Do. Yelagiri hills.
30. Do. Solasiramani = Sholasigamany.
31. Do. Sithampundi.
32. Coimbatore district, Erode taluk, Kanjicoil.
33. Do. do. Chennimalai.
34. Do. Palladam taluk, Shegrispollaiam and Karootapollaiam.
35. Do. Bhaváni taluk, Kammundapalli.
36. Do. do. Neringipet.
37. Do. Satyamangalam taluk, Gopichettipolliam.
38. Do. Sholasigamany.
39. Coimbatore district.
40. Do. banks of the Cauvery.
41. Do. Pasur.
42. Do. Dhárapuram taluk, Sivamallei.
43. Do. Karúr.
44. South Canara district, Uppinangadi taluk, Bandaru Bandadi in Beltangadi magane.
45. Do. do. Kadikar village.
46. Do. do. Hire Bandadi in Bandadi magane.
47. Do. do. Kemmar village.
48. South Canara district.
49. Mysore Province, Hunsur, in block 800 lb.
50. Do. Saringamandahalli.
51. Do. Narnapanhalli.
52. Do. hills near Bangalore.
53. Do. Mallakotah (French Rocks near Seringapatam).
54. Do. Mysore.
55. Do. Mandaya taluk, Kalhully.
56. Do. Singina, Marisahalli near Hunsur.
57. Do. Coorg, Kushalnagar.
58. Travancore.

ORDER—dated 22nd December 1893, No. 1083, Revenue.

Miscellaneous.

Communicated to the Board of Revenue and to Mr. C. S. Middlemiss, Deputy Superintendent, Geological Survey.

(True Extract.)

Secretary to Government.

To the Commissioners of Land Revenue.

„ the Commissioner of Revenue Settlement, Land Records and Agriculture.

„ Mr. C. S. Middlemiss, Deputy Superintendent, Geological Survey.

„ the Superintendent, Government Central Museum.

Copy to the Public Works Department.

Edw. J. Henricus.

20 Copies.

Govt. of {1893} Madras.
REVENUE.

No. 193. Wd/22nd January 1894

Communicated to
Supply Engineers for
information.

Issued 105c

Recd. 17.1.94

Encl.

105c
18.1.94

G.O., 22nd December 1893, No. 1083.

Recd
22/1/94

DECEMBER.

Suply Engrs
DESPATCHED
22 JAN. 94

Corundum.

Dr. Warth's report on the specimens of —
found in certain districts of the Madras Presi-
dency and in the Mysore and Travancore States,
communicated to the Board of Revenue and to
Mr. C. S. Middlemiss, Deputy Superintendent,
Geological Survey.

C.24

with order

193/3

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as follows :—

In No. 5 Professor Roberts-Austen refers to the occurrence of corundum in
Southern India. There is now a collection of specimens of pure corundum from 58
localities in 11 districts of the Madras Presidency, besides Mysore and Travancore, as
per annexed list, and sample specimens would be available.

2. I also have the honour to forward a sample of a mineral which might serve
for the purpose of aluminium extraction. I found it in more or less pure condition in
almost unlimited quantity on the Palni hills, in the Madura district, not far from
Periyár, and it very possibly occurs also at Periyár itself.

3. Dr. Van Geyzel, Chemical Examiner to the Government of Madras, has been
kind enough to analyse the mineral and found the composition as follows :—

Insoluble in acid (chiefly Si O ₂)	...	...	...	...	...	...	...	15.5
Loss on ignition (chiefly H ₂ O)	...	...	...	...	...	...	...	33.8
Traces of lime, &c., by difference	...	...	...	...	...	...	...	1.6
Ferric oxide	...	...	...	...	...	...	...	1.3
Aluminium oxide	...	...	...	...	...	...	...	48.3
								100.0

4. The mineral ranges between bauxite and alophane. It is nearer to the latter
theoretically. But as the bauxite used in practice is not always pure, it is very
possible that this Kodaikámal mineral may serve the purpose instead of bauxite.

5. I may mention that the *Scientific American* of September the 2nd gives as the
raw material for aluminium a mineral of the following composition :—

Si O ₂	...	...	...	...	...	...	...	12.5
H ₂ O	...	...	...	...	...	...	...	0.4
Alkalis	...	...	...	...	...	...	...	4.7
Fe ₂ O ₃	...	...	...	...	...	...	...	0.6
Al ₂ O ₃	...	...	...	...	...	...	...	80.7
								98.9

6. The presence of silica in the Kodaikámal mineral will therefore not prevent its
use as the pure aluminium oxide can be extracted by chemicals.

7. Such chemicals although very difficult to procure in Southern India may
possibly be produced by electric current, and then the Kodaikámal mineral will prove
a convenient aluminium ore.

8. I thought it therefore advisable to place this occurrence on record, notwithstanding my having been informed by the Director, Geological Survey, that far purer hydrous oxides of aluminium occur elsewhere associated with corundum.

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4. Kurnool district, Purthykonda taluk.
5. Do. Chakalmury taluk.
6. Do. Ramallakot taluk, Munagala.
7. Bellary district, Adoni taluk.
8. Bellary district.
9. Anantapur district, Anantapur taluk, Siddarampuram.
10. Do. do. Atmakurn.
11. Do. do. Dundivaripalli.
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13. Do. do. Manirevu.
14. Do. do. Mathalacheruvu.
15. Do. do. Motarachintalapully.
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18. Do. Madakasira taluk, Sankaragulla.
19. Do. do. Kodigapalli.
20. Do. do. Manur.
21. Do. do. Karikeray.
22. Do. do. Byagaralapally.
23. Cuddapah district, Proddatur taluk.
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25. Do. Chittoor, Tinmajamma's estate.
26. Do. village six miles north-east of Gudiyattam town.
27. Salem district, Kavandampatti.
28. Do. Dharmapuri taluk, Pennagaram.
29. Do. Yelagiri hills.
30. Do. Solasiramani = Sholasigamany.
31. Do. Sithampundi.
32. Coimbatore district, Erode taluk, Kanjicoil.
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39. Coimbatore district.
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41. Do. Pasur.
42. Do. Dharpuram taluk, Sivamallei.
43. Do. Karur.
44. South Canara district, Uppinangadi taluk, Bandaru Bandadi in Beltangadi magane.
45. Do. do. Kadikar village.
46. Do. do. Hire Bandadi in Bandadi magane.
47. Do. do. Kemmar village.
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49. Mysore Province, Hunsur, in block 300 lb.
50. Do. Saringamandahalli.
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52. Do. hills near Bangalore.
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54. Do. Mysore.
55. Do. Mandaya taluk, Kalhully.
56. Do. Singina, Marinhalli near Hunsur.
57. Do. Coorg, Kushalnagar.
58. Travancore.

ORDER—dated 22nd December 1893, No. 1083, Revenue.

Miscellaneous.

Communicated to the Board of Revenue and to Mr. C. S. Middlemiss, Deputy Superintendent, Geological Survey.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioners of Land Revenue.
„ the Commissioner of Revenue Settlement, Land Records and Agriculture.
„ Mr. C. S. Middlemiss, Deputy Superintendent, Geological Survey.
„ the Superintendent, Government Central Museum.
Copy to the Public Works Department.

Exd. J. Henricus.

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Govt. of {1893} Madras.
REVENUE.

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Recd.

Encl.

G.O., 22nd December 1893, No. 1083.

DECEMBER.

Corundum.

Dr. Warth's report on the specimens of — found in certain districts of the Madras Presidency and in the Mysore and Travancore States, communicated to the Board of Revenue and to Mr. C. S. Middlemiss, Deputy Superintendent, Geological Survey.

Suply. Engineers.

With order

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(True Extract.)

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Secretary to Government.

193
6

To the Commissioners of Land Revenue.

„ the Commissioner of Revenue Settlement, Land Records and Agriculture.
„ Mr. C. S. Middlemiss, Deputy Superintendent, Geological Survey.
„ the Superintendent, Government Central Museum.

Copy to the Public Works Department.

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Govt. of {1893} Madras.
REVENUE.

No 193. Wd/22 January 1894

communicated
to Suptg. Engineers for
information.

(2d) J.P.

W

Issued

Recd.

Encl.

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