

- (1) பக்கங்களின் எண்ணிக்கை 16  
 (2) புதுக்கித் திருப்பிய நாள் 12/89  
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 10/89 ✓

தமிழ்நாடு ஆவணக் காப்பகம்.

(17)

தமிழ்நாடு அரசு

P.W.D. துறை

|                                       |          |                  |
|---------------------------------------|----------|------------------|
| அரசாணை எண்.<br>மு. கோப்புத் தாள் எண். | 1175 -   | அச்சகம்<br>பலவகை |
| நாள் :                                | 2-5-1889 | 198 .            |

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

10/89

8. Sheets

1125  
GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.  
Civil Works.

READ—the following paper:—

G.O., dated 15th April 1889, No. 154, Marine.

From the Presidency Port officer, dated 14th March 1889, No. G.-108.

In compliance with the instructions contained in the concluding portion of G.O., No. 432, Marine, dated 1st September 1888, I have the honor to report as follows, viz.:—

*Madras Lighthouse.*—(a) The sweeper, dhoby and toty are in addition to the four lascars. The toty is a necessary part of the establishment; the services of the sweeper and dhoby can be dispensed with, and I have given orders for this to take effect from 1st April this year.

(b) An attempt was made by my predecessors to substitute kerosine oil for cocoanut, but it was found that the former oil caused too great a glare, rendered the flash undistinguishable and made the lamp room almost unbearable from the excessive heat generated. I think that any change which could be made might have the effect of altering to some extent the character of the light, and I do not propose to make any alteration unless Government consider it actually necessary. The light at present is an excellent one, and I think it had better be left alone until a new apparatus is found necessary. Besides, the alterations which would have to be made to enable kerosine oil to be used would involve extinguishing the light for a short time.

(c) The sum of Rs. 385 under the head of contingencies represents sums expended on repairs to the apparatus.

2. *Santopilly.*—(a) The large expenditure in oil at this lighthouse was due to the light apparatus. An alteration has been made which has had the effect of considerably reducing the consumption of oil.

(b) The expenditure on account of stores was due to the plate glasses supplied from England, the value of which with freight came to Rs. 362-9-7.

3. *General.*—The question respecting the pay of the several Superintendents and the number of Assistant Superintendents will form the subject of a separate letter.

Order—dated 15th April 1889, No. 154, Marine.

Recorded.

(True Extract.)

(Signed) J. F. PRICE,  
Chief Secretary.

READ—the following paper :—

ENCLOSURE.

G.O., dated 1st September 1888, No. 432, Marine.

From Captain H. A. STREET, Her Majesty's Indian Marine, Port officer, Madras, to the Chief Secretary to Government, dated Madras, 8th August 1888, No. 9-G.

Referring to the annual report on lights and lighthouses in the Madras Presidency for the official year 1887-88, which accompanied my letter dated 10th July 1888, No. 321-G., I have the honor to forward herewith the statement of expenditure on account of the same for that year.

Order—dated 1st September 1888, No. 432, Marine.

Recorded.

2. The statement has been recast in the Government office in a more convenient form, which the Presidency Port officer is requested to adopt when submitting future returns. The remarks made at the foot of the specimen form now forwarded to him should receive Captain Street's consideration, when the more important matters now engaging his attention have been adjusted.

(True Extract.)

(Signed) J. F. PRICE,  
Ag. Chief Secretary.

[Appendix

APPENDIX.

Cost of Lighthouse Establishments in 1887-88.

| Number of miles visible. | Height of centre of lantern above high water. | Are of illumination. | Number of lascars. | Lighthouses.  | Superintendents. | Assistant Superintendents. | Lascars. | Sweepers, washermen, &c. | Oil.  | Stores. | Contingencies. | Public Works Department charges for repairs. | Cost of building and value of lights. | Total 1887-88. | Total 1886-87. | Total 1885-86. |
|--------------------------|-----------------------------------------------|----------------------|--------------------|---------------|------------------|----------------------------|----------|--------------------------|-------|---------|----------------|----------------------------------------------|---------------------------------------|----------------|----------------|----------------|
| 10                       | 85                                            | 180°                 | 1                  | Gopálpur      | ..               | 120                        | 131      | ..                       | 135   | 20      | 15             | ..                                           | ..                                    | 421            | 542            | 523            |
| 8                        | 68                                            | ..                   | 1                  | Calangapatam  | ..               | 120                        | 128      | ..                       | 90    | 9       | 20             | ..                                           | ..                                    | 367            | 1,144          | 479            |
| 14                       | 173                                           | 180°                 | 4                  | Santapally    | ..               | 180                        | 347      | ..                       | 1,362 | 492     | 71             | 605                                          | ..                                    | 3,897          | 2,024          | 1,623          |
| 14                       | 80                                            | ..                   | 4                  | Vakalapudi    | ..               | 168                        | 360      | ..                       | 180   | 26      | 61             | 214                                          | ..                                    | 2,345          | 2,228          | 2,351          |
| 14                       | 83                                            | 180°                 | 4                  | Hope Island   | ..               | 142                        | 372      | ..                       | 180   | 21      | 186            | 133                                          | ..                                    | 1,931          | 3,366          | 3,484          |
| 6                        | 69                                            | 180°                 | 2                  | Masulipatam   | ..               | ..                         | 167      | ..                       | 114   | 5       | 34             | ..                                           | ..                                    | 320            | 302            | 291            |
| 14                       | 48½                                           | 225°                 | 4                  | Point Divi    | ..               | ..                         | 432      | ..                       | 114   | 41      | 69             | 1,182                                        | ..                                    | 1,496          | 1,492          | 2,159          |
| 14                       | 107                                           | 180°                 | 5                  | Arneghon      | ..               | 1,200                      | 396      | ..                       | 135   | 133     | 44             | 595                                          | ..                                    | 3,090          | 4,346          | 3,161          |
| 14                       | 116                                           | 180°                 | 5                  | Pulicat       | ..               | 817                        | 318      | ..                       | 183   | 107     | 49             | 2,575                                        | ..                                    | 2,069          | 4,107          | 2,032          |
| 10                       | 128                                           | 310°                 | 4                  | Seven Pagodas | ..               | 560                        | 242      | ..                       | 242   | 232     | 185            | ..                                           | ..                                    | 3,987          | 5,175          | ..             |
| 20                       | 79½                                           | 180°                 | 2                  | Madras        | ..               | 1,500                      | 504      | ..                       | 1,688 | 197     | 385            | 261                                          | 4,699                                 | 9,261          | 4,786          | 4,194          |
| 14                       | 97                                            | 180°                 | 2                  | Negapatam     | ..               | ..                         | 180      | ..                       | 90    | ..      | 23             | ..                                           | ..                                    | 674            | 646            | 419            |
| 14                       | 85                                            | ..                   | 1                  | Pamban        | ..               | 120                        | 96       | ..                       | 142   | 38      | 39             | 80                                           | ..                                    | 397            | 426            | 805            |
| 14                       | 132                                           | ..                   | 4                  | Tuticorin     | ..               | 144                        | 360      | ..                       | 135   | 103     | 156            | ..                                           | ..                                    | 807            | 710            | 614            |
| ..                       | 100                                           | 270°                 | ..                 | Manapad       | ..               | ..                         | 336      | ..                       | 540   | ..      | ..             | ..                                           | 1,809                                 | 2,515          | 5,325          | 6,710          |
| 15                       | 102                                           | 180°                 | 2                  | Cochin        | ..               | 144                        | 204      | ..                       | ..    | ..      | 11             | ..                                           | ..                                    | 1,809          | 686            | 622            |
| 14                       | 60                                            | 180°                 | 3                  | Calicut       | ..               | 120                        | 229      | ..                       | 180   | ..      | 16             | 1,053                                        | ..                                    | 2,515          | 580            | 662            |
| 5                        | 70                                            | 158°                 | ..                 | Beyypore      | ..               | 120                        | 117      | ..                       | 45    | ..      | 3              | ..                                           | ..                                    | 1,598          | 230            | 212            |
| 8                        | 64                                            | 180°                 | ..                 | Tellicherry   | ..               | 120                        | 96       | ..                       | 90    | 20      | ..             | 334                                          | ..                                    | 168            | 637            | 415            |
| 6 to 8                   | 240                                           | 180°                 | 1                  | Cannanore     | ..               | 120                        | 240      | ..                       | 144   | ..      | 15             | 643                                          | ..                                    | 347            | 305            | 374            |
| 14                       | ..                                            | ..                   | 3                  | Mangalore     | ..               | 120                        | 240      | ..                       | 108   | 9       | 43             | ..                                           | ..                                    | 1,163          | 687            | 600            |
| ..                       | ..                                            | ..                   | 62                 | Total ..      | 9,583            | 2,290                      | 5,255    | 36                       | 5,807 | 1,443   | 1,436          | 7,675                                        | 6,508                                 | 40,033         | 40,193         | 31,610         |

N.B.—The establishment at Madras would seem to be unnecessarily large as compared with Muttam, &c. Are the sweepers, dhoby and toty necessary in addition to the four lascars? Cannot kerosine or other oil be used in Madras instead of coconut oil? Contingencies in this lighthouse are also high. Why should oil and stores cost so much more at Santapally than elsewhere? The pay of the several Superintendents varies very considerably. Might it not be reduced in some cases? Are so many Assistant Superintendents necessary? The number of lascars varies considerably at the various stations.

\* Visible in every direction or all round the compass.

† Excluding Rs. 21,716 the value of the dioptric light at Santapally.

4

2ND MAY 1889, No. 1175 W., PUBLIC WORKS.

ORDER—dated 2nd May 1889, No. 1175 W., Public Works.

Communicated to Superintending Engineers concerned for information.

(True Extract.)

Captain, R.E.,  
Under-Secy. to Govt., P.W.D.

To the Superintending Engineers, I, II, IV, V and VI Circles.

Exd. J. Henricus.  
Spare Copies

1175

3

BUILDINGS AND ROADS.  
CIVIL WORKS.

Govt. of {1889} Madras.  
PUBLIC WORKS.

Dated May, 2nd.

Recd.

Encl.

G.O., 2nd May 1889, No. 1175 W.

MAY.

### Lighthouses

Proceedings in the Marine Department  
recording letter from the Presidency Port  
officer reporting on certain points con-  
nected with certain —, communicated to  
Superintending Engineers concerned.

[ 25 ]

Marine Department.



## PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following paper

From the Presidency Port officer, dated 11<sup>th</sup> March 1889,  
No. G/108.

In compliance with the instructions contained in  
the concluding portion of G.O. No. 432, Marine, dated 1<sup>st</sup>  
September 1888, I have the honor to report as follows, viz. —

### Madras Lighthouse

- (a) The Sweeper, Dhobi and Toly are in addition to the 4  
Lascars. The Toly is a necessary part of the establishment;  
the services of the Sweeper and Dhoby can be dispensed with,  
and I have given orders for this to take effect from 1<sup>st</sup> April this year.
- (b) An attempt was made by my predecessors to substitute  
Kerosine oil for Cocoanut, but it was found that the former oil  
caused too great a glare, rendered the flash undistinguishable  
and made the lamp room almost unbearable from the excessive  
heat generated. I think that any change which could be made  
might have the effect of altering to some extent the character of the  
light, and I do not propose to make any alteration unless  
Government consider it actually necessary. The light at present  
is an excellent one, and, I think, it had better be left alone until  
a new apparatus is found necessary. Besides the alteration  
which would have to be made to enable kerosine oil to be used  
would involve extinguishing the light for a short time.

(c) The sum of rupees three hundred and eighty five (385) under the head of contingencies represents sums expended in repairs to the apparatus.

Santapilly

(a) The large expenditure in oil at this lighthouse was due to the light apparatus. An alteration has been made which has had the effect of considerably reducing the consumption of oil.

(b) The expenditure on account of stores was due to the plate glasses supplied from England, the value of which with freight came to Rupees (362-9-7) Three hundred and sixty two, annas nine and pice seven.

General

The question respecting the pay of the several Superintendents and the number of assistant Superintendents, will form the subject of a separate letter.

G.O. 15 April 1889, No. 154

Recorded

(True Extract)

W. B. Bondar

Capt. R. E.

Under Secretary P. W. D.  
For Chief Secretary

To,

The Presidency Port Officer

Copy to the P. W. Dept.

with Manual of 1888  
12 Sept 88

5/

2P  
1ST SEPTEMBER 1888, No. 432, MARINE.

1125  
GOVERNMENT OF MADRAS.

MARINE DEPARTMENT.

READ—the following paper:—

From Captain H. A. STREET, Her Majesty's Indian Marine, Port Officer, Madras, to the Chief Secretary to Government, dated Madras, 8th August 1888, No. 9-G.

Referring to the annual report on lights and light-houses in the Madras Presidency for the official year 1887-88, which accompanied my letter, dated 10th July 1888, No. 321-G., I have the honor to forward herewith the statement of expenditure on account of the same for that year.

ORDER—dated 1st September 1888, No. 432, Marine.

Recorded.

2. The statement has been recast in the Government office in a more convenient form, which the Presidency Port Officer is requested to adopt when submitting future returns. The remarks made at the foot of the specimen form now forwarded to him should receive Captain Street's consideration, when the more important matters now engaging his attention have been adjusted.

(True Extract.)

J. F. PRICE,  
Ag. Chief Secretary.

To the Presidency Port Officer.

Exd. A. Raitt.

[Appendix.  
5

APPENDIX.

Cost of Light-house Establishments in 1887-88.

| Number of miles visible. | Height of centre of lantern above high water. | Are of illumination. | Number of lascars. | Light-houses. | Superintendents. | Assistant Superintendents. | Lascars. | Sweepers, Washermen, &c. | Oil.  | Stores. | Contingencies. | Public Works Department charges for repairs. | Cost of building and value of lights. | Total, 1887-88. | Total, 1886-87. | Total, 1885-86. |
|--------------------------|-----------------------------------------------|----------------------|--------------------|---------------|------------------|----------------------------|----------|--------------------------|-------|---------|----------------|----------------------------------------------|---------------------------------------|-----------------|-----------------|-----------------|
| 10                       | 85                                            | 180°                 | 1                  | Gopāpur       | ..               | 120                        | 131      | ..                       | 135   | 20      | 15             | ..                                           | ..                                    | 421             | 542             | 523             |
| 8                        | 68                                            | 180°                 | 1                  | Calingapatam  | ..               | 120                        | 128      | ..                       | 90    | 9       | 20             | ..                                           | ..                                    | 367             | 1,144           | 479             |
| 14                       | 173                                           | 180°                 | 4                  | Santopilly    | ..               | 840                        | 347      | ..                       | 1,362 | 492     | 71             | ..                                           | ..                                    | 3,897           | 2,624 +         | 1,623           |
| 14                       | 80                                            | 180°                 | 4                  | Vakalapudi    | ..               | 1,429                      | 360      | ..                       | 180   | 26      | 61             | ..                                           | ..                                    | 2,348           | 2,228           | 2,331           |
| 14                       | 83                                            | 180°                 | 4                  | Hope Island   | ..               | 897                        | 167      | ..                       | 114   | 5       | 186            | ..                                           | ..                                    | 1,931           | 3,365           | 3,484           |
| 14                       | 69                                            | 180°                 | 2                  | Manulicetam   | ..               | ..                         | 432      | ..                       | 114   | 5       | 34             | ..                                           | ..                                    | 1,320           | 392             | 291             |
| 14                       | 48 1/2                                        | 180°                 | 5                  | Point Divi    | ..               | 840                        | ..       | ..                       | 114   | 41      | 69             | ..                                           | ..                                    | 1,496           | 1,492           | 2,159           |
| 14                       | 107                                           | 225°                 | 5                  | Arneghon      | ..               | 1,260                      | 396      | ..                       | 133   | 133     | 44             | ..                                           | ..                                    | 3,090           | 4,346           | 3,161           |
| 14                       | 68                                            | 180°                 | 5                  | Seven Pagodas | ..               | 817                        | 318      | ..                       | 183   | 107     | 49             | ..                                           | ..                                    | 2,069           | 4,167           | 2,032           |
| 10                       | 116                                           | 180°                 | 4                  | Pulicat       | ..               | 590                        | 242      | ..                       | 242   | 232     | 136            | ..                                           | ..                                    | 3,987           | 5,175           | ..              |
| 20                       | 128                                           | 310°                 | 4                  | Madras        | ..               | 1,500                      | 504      | ..                       | 1,688 | 197     | 385            | ..                                           | 4,698                                 | 9,261           | 4,736           | 4,194           |
| 14                       | 70 1/2                                        | 180°                 | 2                  | Negapatam     | ..               | ..                         | 180      | ..                       | 90    | ..      | 23             | ..                                           | ..                                    | 674             | 546             | 419             |
| 14                       | 97                                            | 180°                 | 1                  | Pamban        | ..               | ..                         | 180      | ..                       | 142   | ..      | 39             | ..                                           | ..                                    | 397             | 426             | 805             |
| 14                       | 85                                            | 180°                 | 4                  | Tuticorm      | ..               | 1,500                      | 360      | ..                       | 135   | 28      | 60             | ..                                           | ..                                    | 807             | 710             | 614             |
| 20                       | 132                                           | 180°                 | 4                  | Manapad       | ..               | ..                         | 336      | ..                       | 540   | 103     | 155            | ..                                           | ..                                    | 2,815           | 5,325           | 6,710           |
| 15                       | 100                                           | 270°                 | 2                  | Cochin        | ..               | ..                         | 204      | ..                       | ..    | ..      | 11             | ..                                           | 1,809                                 | 1,809           | ..              | 622             |
| 14                       | 102                                           | 180°                 | 3                  | Calicut       | ..               | ..                         | 229      | ..                       | 180   | ..      | 16             | ..                                           | ..                                    | 1,598           | 580             | 562             |
| 6                        | 60                                            | 180°                 | ..                 | Beyport       | ..               | ..                         | 117      | ..                       | 45    | ..      | 3              | ..                                           | ..                                    | 168             | 230             | 212             |
| 8                        | 70                                            | 158°                 | 2                  | Tellicherry   | ..               | ..                         | 96       | ..                       | 90    | 20      | ..             | ..                                           | ..                                    | 347             | 637             | 415             |
| 6 to 8                   | 64                                            | 180°                 | 1                  | Cannanore     | ..               | ..                         | 240      | ..                       | 144   | ..      | 15             | ..                                           | ..                                    | 709             | 305             | 374             |
| 14                       | 240                                           | 180°                 | 3                  | Mangalore     | ..               | ..                         | 240      | ..                       | 108   | 9       | 43             | ..                                           | ..                                    | 1,163           | 687             | 600             |
| ..                       | ..                                            | ..                   | 62                 | Total         | ..               | 9,583                      | 5,255    | 36                       | 5,807 | 1,443   | 1,436          | 7,675                                        | 6,508                                 | 40,033          | 40,193          | 31,610          |

N.B.—The establishment at Madras would seem to be unnecessarily large as compared with Mutiam, &c. Are the sweepers, dhobi and toty necessary in addition to the 4 lascars? Cannot kerosine or other oil be used in Madras instead of coconut oil? Contingencies in this light-house are also high.

Why should oil and stores cost so much more at Santopilly than elsewhere? Might it not be reduced in some cases? Are so many Assistant Superintendents necessary? The number of lascars varies considerably at the various stations.

1175

Gobt. of (1888) Madras.  
MARINE.

Issued

Recd.

Encl.

G.O., 1st September 1888, No. 432.

SEPTEMBER.

Light-houses.

Passing orders on letter from the Presidency  
Port Officer submitting statement of expenditure  
on — for 1887-88.



[ 6 ]

Gobt. of (188 ) Madras.

To

Proceedings, dated  
No.

188

Subject.

8.

7

Gobt. of 188 | Madras.

3951

To

The Post Dept

41  
No 1175 W. & S. and Henry  
1889

Communicated to  
Suptg. Engineers concerned  
for information.

Recd  
30.4.89

Proceedings, dated 15 April 1889  
No. 154

Subject.

R. 2.5.89

Recording letter from the  
Presidency Post Office  
Madras reporting on  
certain points in connection  
with the Madras and  
Santapally Lighthouses.

Recd  
29.4.89

S. Es. I. II. IV. V. & VII. Circles.

7-5- 9-7-5 16/5  
30

Recd

Recd. 8/1/4. In 30/4.

1175

Govt. of (1889) Madras.  
PUBLIC WORKS.

Dated

Recd.

Encl.

G.O. 2 May 1889 No. 11754

Lighthouses

Pro in the marine  
dept. according letter  
from the Presidency  
Post office reporting  
on certain points  
connected with  
Lighthouse —  
can. to S. Eng.?  
concerned.

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