

- (1) பக்கங்களின் எண்ணிக்கை $(8+1=9) = (16 \text{ Pages})$
 (2) புதுக்கித் திருப்பிய நாள் 13 செப் '90
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 102

தமிழ்நாடு ஆவணக் காப்பகம்.

(76)

தமிழ்நாடு அரசு

P. W. D. துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	1296	அச்சகம் பலவகை
நாள் :	11-5-1891	198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

8 sheets (1. statement)

ஆவண. கா-1-18,008-15-8-87.

(17)

1296
11TH MAY 1891, No. 1296 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

From Lieut.-Colonel R. R. E. DRAKE-BROCKMAN, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department (through the Port officer, Madras), dated Coimbatore, 27th April 1891, No. 211/E.W.

I have the honour, with reference to your memo. No. 230 C, dated 16th January 1891, to report that I inspected the lighthouses in this circle on the 24th October last and between the 14th and 18th instant. The Cochin light was examined on the former date and the other lights on the latter dates. I append the usual tabular form containing the results of my inspection.

ENCLOSURE.

TABULAR form of Lighthouses.

Lighthouses.	Class of light.	Height of centre of lantern above mean sea level.	Distance at which light is visible.	Object of light.	Remarks.
1	2	3	4	5	6
Cochin ..	Fourth order, catadioptric, fixed white.	100 feet ..	15 miles ..	Harbour light ..	In good order. Lightning conductor defective in conductivity; should be renewed and attached inside; wooden stairs should be replaced by iron ones; ventilation of lantern defective.
Calicut ..	Fourth order, dioptric, fixed white.	102 feet ..	14 miles ..	To guide vessels to the anchorage clear of the reef which lies about 1 mile S. 30° W. from the light.	Ventilation of lantern defective; wooden stairs should be replaced by iron ones; lightning conductor to be removed to the inside of tower; column in good order, lately painted.
Tellicherry..	Sixth order, dioptric, fixed white.	70 feet ..	8 miles ..	Harbour light ..	Front uprights of shelter to be raked back to allow light to be visible throughout its arc; shelter, newly put up, unsteady; to be braced and strutted; lightning conductor in good order; four cocoanut trees which intercept the light to the southward should be removed.
Cannanore..	Sixth order, dioptric, fixed red.	64 feet ..	6 to 8 miles.	Do. ..	Tower platform and shelter in good order; new ladder lately put up; lightning conductor lately put up.
Mangalore..	Fourth order, dioptric, fixed white.	240 feet ..	14 miles ..	Guide for vessels to the anchorage.	Ventilation of lantern defective; wooden stairs should be replaced by iron ones; lightning conductor to be placed inside tower; tower in good order; house accommodation for the light-keeper and lascars very much required; they live at present two miles from the lighthouse.

(Signed) R. R. E. DRAKE-BROCKMAN, Lieut.-Colonel, R.E.,
Superintending Engineer, IV Circle.

11TH MAY 1891, No. 1296 W., PUBLIC WORKS.

From Captain M. BEAN, H.M.'S. I.M., Officiating Presidency Port officer, to the Chief Engineer, Public Works Department, dated Madras, 1st May 1891, No. 975/64 P.W.

In forwarding the accompanying letter No. 211/E.W. of 27th April 1891 from the Superintending Engineer, IV Circle, to your address, together with his notes of inspection of the lighthouses on the West Coast, I have the honour to observe as follows:—

(a) The remarks of the Superintending Engineer in respect to improvements are in accordance generally with the recommendations of Mr. Douglass, and the Superintending Engineer has already been desired by this department to prepare plans and estimates for carrying out Mr. Douglass' suggestions. Any additional repairs, &c., which may suggest themselves to the Public Works Department can, of course, be included in the estimate already called for.

(b) The iron stairs proposed should be spiral, the present arrangement of perpendicular ladders being clumsy and inconvenient.

(c) Regarding the trees obstructing the view of the Tellicherry light to the southward, the Collector of Malabar has been addressed.

(d) The Superintending Engineer has been desired to furnish plan and estimate for quarters for the light-keepers at Mangalore in a suitable locality.

ORDER—dated 11th May 1891, No. 1296 W., Public Works.

Communicated to the Marine Department.

2. The attention of the Superintending Engineer, IV Circle, is drawn to the Presidency Port officer's remarks.

(True Extract.)

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

To the Marine Department.
„ Superintending Engineer, IV Circle.

Exd. C. A. Munisawmy.
Spare Copies

1296
2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1891} Madras.
PUBLIC WORKS.

Dated May, 11th.

Recd.

Encl.

G.O., 11th May 1891, No. 1296 W.

MAY.

Lighthouses

Remarks of the Presidency Port officer
on the inspection notes of the Superintend-
ing Engineer, IV Circle, on the — in the
West Coast, communicated to the Marine
Department.

No. 211
E.W.

Supg. Engineer's office, 4th Circle,
Coimbatore, 27th April 1891.

From,

Lt. Col. R. H. Drake-Brockman, R.E.,
Supg. Engineer, 4th Circle.

To,

The Chief Engineer,
P.W. Department.

thru' the Port officer,
Madras.

Encl: 1.

Sir,
I have the honor, with reference
to your memorandum No. 230C, dated
16th January 1891, to report that I inspected
the lighthouses in this circle on the 24th
October last, and between the 14th and
18th instant. The Cochin light was ex-
amined on the former date, and the
other lights on the latter dates. I append
the usual tabular form containing the
results of my inspection.

I have the honor to be,

Sir,

Your most obedient servant,

R. H. Drake-Brockman, Lt. Col. R.E.,
Engineer, 4th Circle.

1296
— 4

From
The Supg. Engineer,
IV Circle.

81
PW 484

Dated 27th }
Despd 28th } April 1891

No 211
E. W.

Encls: 1.

Light houses in the IV Circle.
Reporting the result
of his inspection of the—

Tabular form of Lighthouses

Lighthouse	Class of Light	Height of Centre of lantern above mean sea level.	Distance at which light is visible	Object of Light
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Cochin	4 th Order, catoptric, fixed white	100 feet	15 miles	Harbour light
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Da
Des

Calicut	4 th order, dioptric, fixed white	102 feet	11 miles	To guide vessels to the anchorage clear of the reef which lies about 1 mile S. 3° W from the light
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Jellichery	6 th Order, dioptric, fixed white	70 feet	8 miles	Harbour light
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Ly

Cannanore	6 th Order, dioptric, fixed (red)	64 feet	6 to 8 miles	Harbour light
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of

Mayarke	4 th Order, dioptric, fixed white	218 feet	14 miles	Guide for vessels to the anchorage.
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Remarks.

In good order. Lightning Conductor defective in conductivity, should be renewed and attached inside; wooden stairs should be replaced by iron ones. Ventilation of lantern defective.

Ventilation of lantern defective. Wooden stairs should be replaced by iron ones. Lightning Conductor to be removed to the inside of tower. Column in good order, lately painted.

Front uprights of shelter to be pulled back to allow light to be visible throughout its arc. Shelter, newly put up, unsteady. To be braced and strutted. Lightning Conductor in good order. Four coconut trees which intercept the light to the southward should be removed.

Tower platform and shelter in good order. New ladder lately put up. Lightning Conductor lately put up.

Ventilation of lantern defective. Wooden stairs should be replaced by iron ones. Lightning Conductor to be placed inside tower. Tower in good order. House accommodation for the Light keeper and Lascars very much required. They live at present two miles from the lighthouse.

Aredrah Ponclunary Lt. Col. R.E.
Supg. Engineer, 4 Circle.

No 975³ / 64 P.W. Presidency Post Office,
Madras 1 May 1891.

From
To

The Chief Engineer to Government,
Public Works Department.

Sir,

In forwarding the accompany-
ing letter No $\frac{211}{E.W.}$ of 27th April 1891
from the Superintending Engineer
IV Circle to your address together
with his Notes of Inspection of the
Lighthouses on the West Coast,
I have the honor to observe as follows:-

(a) The remarks of the Superin-
tending Engineer in respect to
improvements are in accordance
generally with the recommendations
of Mr Douglass, and the Superintending
Engineer has already been desired
by this Department to prepare plans
and estimates for carrying out-

Mr

Mr. Douglass's suggestions. Any additional repairs &c which may suggest themselves to the P.W.D. can, of course, be included in the estimate already called for.

(b) The iron stairs proposed should be spiral, the present arrangement of perpendicular ladders being clumsy and inconvenient.

(c) Regarding the trees obstructing the view of the Petticherry light to the southward, the Collector of Malabar has been addressed.

(d) The Superintending Engineer has been desired to furnish plan and estimate for quarters for the Light-keepers at Mangalore in a suitable locality.

I have the honor to be,

Sir,

Your Obedient Servant,

James D. Sear

Captain H. M. S. M.
Offs: Presidency Port-Officer.

1296/7/8

Memorandum 23007 10.1.91

4

P. W. C. No. 4844

No. 1296 of 11th May 1891

From

The Presidency Port Officer,
Madras

1296
8/9

1st May

Communicated

to the Marine Dept

To

The Chief Engineer
to Government,
Public Works Department,

2. The attention of

The Super. Engr. IV Circle

is drawn to the Presy.

Port Officer's remarks.

No. 975 P.W.
64

0013

4.5.91

Ald.

Dated 1st May 1891

No. 4-5-91

Enc 2

Commanding, with remark,
inspection notes of the Superin-
tending Engineer, in the most exact
lightness.

To the Marine Dept

S.S. IV Circle

10/5

4/5
Obs 404
H. 6. 1. 91
H. 8. 1. 91
S. 2. 1. 91

4844

Gobt. of Madras.

PUBLIC WORKS.

Dated

Recd.

G.O. 11th May 191. No. 12965.

Light houses.

Remarks of the Presidency
Post officer on the inspection
notes of the ~~Dr~~ Circle
on the in the West Coast
Canal to the Marine Dept.

60
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(8)

2/1/5- 5/1/5