

No. 27 G

Heading.

PRESIDENCY PORT OFFICE,
Madras 4th February 1895.

From Commander W. J. Powell, R. I. M.
THE PRESIDENCY PORT OFFICER,

MADRAS,

To

THE CHIEF SECRETARY TO GOVERNMENT,
MARINE DEPARTMENT,
FORT ST. GEORGE.

SIR,

With reference to para 2 of G. O. No. 467 dated 8th December 1894, I have the honor to acquaint you for the information of Government that the fee charged under Sec 75 Act VIII of 1880 for the services of the Port Diver for recovering articles lost overboard by accident are the same as those approved ^{of} by the Government in their order in the Marine Department No 136 dated 26th June 1865. In the Schedule therein given, the term "making a rope fast to anything in or under" is applied to recovering articles. In addition to this, boat hire is charged in accordance with the Schedule of boat hire sanctioned by Government under Act X of 1889.

I have the honor to be
Sir

Your Obedient Servant

H. S. Baumbach

for Presidency Port Officer

[G
11
3,000-26-0-94.]

ORDINARY, MS.

Marine DEPARTMENT.
G.O., DATED 14/2/95.
No. 51.

INDEXED.

When given for copying. 14/2.

[Despatch Abstract.]

Regarding letter from the P. P. O. signifying his approval of all lighthouses being painted instead of being white washed, and awaiting a further report in regard to the lightning conductors.

245
4.7.93

Red 5-15-2 m.
14/2

BACK PAPER, No.

OF 189

HEAD AGAIN ORDER OF GOVERNMENT, DATED
189, No. MISCELLANEOUS.

FURTHER PAPER, No.

278 }
317 } No. 125
6-5-95

461 of 95

ENCLOSURE

CURRENT No.

STATEMENT WITH DITTO.

ORDER OF GOVERNMENT. A A

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH
IN ORIGINAL (not paged).

N.H.—

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1895.

Public Works Department.

CHIEF SECRETARY
25 JAN 1895
GOVERNMENT OF MADRAS

No. 184 W

Dated 24 January 1895

Despatched

Received 25 " " "

Regd 26 " " "

SUBJECT.

Communicating report
of the results of the exa-
mination of the lightning
conductors of certain light
houses in the II circle

TO BE RETURNED
WITH REPLY.

31 JAN 95

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

From the Superintending Engineer II Circle No.
349 B.C. dated 19th January 1895:-

In reference to G.O. 2434 W. of the 26th October 1894, I have the honour to report the results of my examination of the lightning Conductors of the Light-houses at the Seven Pagodas, Pulicat and Arneghon.

2. Seven Pagodas, inspected 21st December 1894. The spindle of the wind vane forms the Conductor rod and is connected through the metal roof of the light room to the earth by means of a galvanised iron wire rope. The conductivity of the arrangement was found to be perfect and the resistance to be small, about $\frac{1}{2}$ ohm. On testing the resistance of the earth, I found that owing to the bad condition of the leads, I was unable to get any reliable results. According to the Code of instructions approved by the Government of India in 1883 for the guidance of the P.W. Officers in the erection and testing of

of lightning conductors, the qualitative test is sufficient, except in the case of powder magazines. Lines vide page 16 (a) of the Instructions. As however, it has been the practice in this Presidency to obtain the resistance of the Conductor's earth in the case of light houses, I have arranged for a further test of the earth in question, the results of which will be reported in due course.

3. Pulicat Inspected 9th January 1895. Before commencing work I endeavoured to improve the condition of the leads by wrapping prepared tape round the bared portion of the wire. The leads which were lately supplied on indent from the Government Telegraph department are, however, so full of breaks in the insulation, and the insulation generally so imperfect, that I do not think they should have been issued. I have asked the Executive Engineer, Buckingham Canal Division to see if the Telegraph department in Madras can make up some reliable leads from the ones in question, by cutting out the bad portions, and if this can be done, the leads will be used for the further tests which I recommend. The
Conductor

Conductor rod at the Pulicat Lighthouse is not connected with the roof of the light room in such a manner as to ensure the free discharge to earth of electricity from the wind vane or roof. The conductor when tested was found to be perfect for conductivity and the resistance to be small about $\frac{1}{2}$ ohm. The earth which consists of a copper plate, and which is attached to the Conductor rod by a copper tape gave a resistance of $1\frac{1}{2}$ ohm which is rather too high.

4. Arneghon. Inspected 11th January 1895. The conductor is arranged in the same way as at Pulicat, and when tested was found to be perfect for conductivity and its resistance small about $\frac{1}{2}$ ohm. I may here mention that Bucknill's balance does not measure resistances lower than 1 ohm.

On testing the earth, it was found to be very bad and on examination, it was seen that it had not been judiciously placed. It consists of a sheet of copper about 3' square and was placed too near the surface of the ground and resting on a layer of very under burnt wood charcoal.

on

On removing the charcoal and making a deeper pit water was reached and the earth again buried when its resistance was found to be 100 ohms, which, however, is somewhat too high.

5. The general results are as follow:

Seven Pagodas. Conductors perfect, earth to be again tested with reliable leads.

Pulicat Conductor perfect, earth to be again tested with reliable leads. Metal roof of light room and all large pieces of metal in the building to be connected by copper straps with the lightning conductor.

Arneghon. Conductor perfect, earth to be buried deeper in permanently wet soil and to be again tested with reliable leads. Metal roof of light room and all large pieces of metal in the building to be connected by copper straps with the lightning conductor.

6. When the improvements I have suggested have been carried out, Mr. Russell will again test all the systems and I have no doubt that

that with reliable leads it will be found that they are all satisfactory.

7. Before leaving Bexwada, I instructed Sergeant Smith in the testing of conductors and ordered him to go to Divoi to test the conductor there, and when this has been done and any improvements necessary carried out, the arrangements connected with the lightning conductors at all the lighthouses in the II Circle will be in good order.

8. The lighthouses and buildings at the three places visited by me are all in good order and there is little special to report about them.

The improvements to the quarters at Arneghon have been carried out. The column at that place might, with advantage, be painted, the first coat would be heavy, but considering the cost of ropes, cradles, and labour required to white-wash the column, I think it would be decidedly worthwhile to break off the smooth chunam, plaster roughly, and then paint with 2 coats of some paint that will stand weather. White-wash will not remain on smooth chunam plaster and if it is necessary

necessary that the column should be a conspicuous landmark, white or buff paint is recommended.

Order thereon No. 184 W dated 24 January 1895
Communicated to the Marine Department
with reference to G.O. dated 2nd October 1894
No. 391 Marine

1 True Extract 1

CHB Merton
Under Secy to Govt. Madras

E. J. H.

To the Marine Department.

Marine (1895) DEPARTMENT.

CURRENT NO. 93

From

THE PRESIDENCY PORT OFFICER,
Madras,

To

THE CHIEF SECY. TO GOVERNMENT,
MARINE DEPARTMENT,
Fort St. George.

No. 812
31 G

Dated 7th } February 1895.
Received 8th }
Regd 9th }
Encl. mar. no 54.

No.

CHIEF SECRETARY
S. FEB. 1895
GOVERNMENT OF MADRAS

Subject.

Returning Marine Current
to 54 with remark that
Commander Powell has
already signified his approval
of all lighthouses being
painted instead of white-
washing them.

W.D.

Marine 120015-19

NT.

N

Order 14th Feb 1895. No. 51

U.S.

Recorded.

2. A further report
in regard to the light-
ning conductors will
be awaited.

J.B.
10/2/5.

11/2/95

P. P. Offr. 9
P. W. Dept. 9
DESPATCHED
16 FEB 95
IN M.S.
copy 93
order

Copied 14/2/5

May 12 1895-19

NT.

CURRENT No. 93

No. 8129
31

PRESIDENCY PORT OFFICE,

Madras, 7 February 1895.

Heading.

From Commander W. Powell, R.S.M.,

~~The~~ PRESIDENCY PORT OFFICER,

MADRAS,

To

THE CHIEF SECRETARY TO GOVERNMENT,

MARINE DEPARTMENT,

FORT ST. GEORGE.

SIR,

In reply to endorsement, No. 181, dated 31st January 1895, on Marine Current No. 54, herewith returned, I have the honor to acquaint you, for the information of Government, that Commander Powell has already signified his approval of all lighthouses being painted instead of whitewashing them, and steps will be taken to do this when the necessity arises for whitewashing again. The initial extra cost would soon be counter-balanced by the annually recurring charges on account of scaffolding.

I have the honor to be,
Sir,

Your most obedt. servant,

H. D. Baccusley
For Presy. Port Office

mai
Mays 120015-145
mar
96

1895.

No 1463
28

From
The collector of
South Camero.

Forwarded with the
approval of the undersigned.
Walter Bued

To
The Chief Secretary to
Government Marine Dept.
Fort St. George
Thro' the Presidency Port
Office,
Madras.

4 Feb'y 95

Commander, R.S.M.,
Presy: Port Officer

Dated 28th
Recd in mark 10
Recd 11th Reference on
Current No 69 of 1895.
Enclosure none

UNDER SECRETARY
PUBLIC
10 FEB 95

Recommending that
the resignation tendered
by Mr. Hammett of the
membership in the Com-
mittee for the manage-
ment of funds raised
under Act III of 1885 may
be accepted & Mr. H.
Menzies his locum tenens
may be appointed to the
vacant membership.

By the Governor
Order 1574 of 1895, No. 52.
Approved.

13/2/95

J.S.B.
11/2

to
14 Feb

To the P. O. Offr. pro
- Court of. Langra
Copied 16/2.
18/2/95

WITH ORDER

Reference on Current.
No. 69 of 1895.
Eng.

65 96.
South Canara Collector's
Office, Mangalore, 27 January
1895.

From, W. H. Welsh Esquire,
Collector of South Canara.

To The Chief Secretary to Government
Marine Department -
Fort St. George.
Through the Presidency Port Office,
Madras.

Sir:
Mr. W. F. Hamilton, the local
agent of the Bombay Steam Navigation
Company who was one of the members
of the Committee for the management
of funds raised under Act III of 1885
(Madras) appointed under G.O. dated
15th January 1894, No. 12, Marine Dept.,
having tendered his resignation, I
have the honor to recommend that his
resignation may be accepted and that
Mr. H. Menzies his locum tenens who
is willing to serve may be appointed
to the vacant membership.

I have the honor to be,
Sir,
Your most Obedt Servant

W. H. Welsh

Collector.

Copied by
Compd
Jas
25/1

BACK PAPER, No. 12

OF 1895

FURTHER PAPER, No.

464
207 of 1895.3.96

OF 1895

READ AGAIN ORDER OF GOVERNMENT, DATED
1895, No. MISCELLANEOUS.

ENCLOSURES.

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