

- (1) பக்கங்களின் எண்ணிக்கை 12
 (2) புதுக்கித் திருப்பிய நாள் 26 1988
 (3) ஆதாரங்குறிப்பவர் கருக்கொப்பம் [Signature]

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

[Signature] துறை

அரசாணை எண்.	<u>738</u>	அச்சகம்
மு. கோப்புத் தாள் எண்.	<u>[Signature]</u>	பலவகை
நாள் :	<u>3. 3. 1988</u>	<u>1988</u>

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

[Signature]

3RD MARCH 1888, No. 738 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from J. W. RUNDALL, Esq., M.I.C.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 21st February 1888, No. 2112 T.S.:—

I have the honor to report that I inspected the Negapatam light-house on the 15th instant.

2. The masonry structure is in excellent order.
3. The basement and rooms have been plastered with Portland cement since the inspection of the Chief Engineer, Public Works Department, in February of last year.
4. The lightning conductor is carried down inside the column and the earth connection is under the floor. The outside readings have been connected with the lightning rod which ends in a point carried above the copper cupola. The hand-rails inside have been connected with the lightning conductor at every point where they cross one another. This is a mistake; the hand-rail should be insulated rather than connected, for were the building to be struck and anyone have hold of the hand-rail at the same time, he might be killed. I would propose therefore to break this connection and cut off the hand-rail at each crossing point.
5. I made inquiries as to whether the lightning conductor had been tested, and was told that it had been by the Telegraph Master two or three years ago. I will try and arrange for its being done again.
6. The cracks in the lantern glasses, referred to in Chief Engineer's inspection notes of last year, are generally due to contraction and expansion of the lantern framing; the glasses are not badly cracked now.

ORDER—dated 3rd March 1888, No. 738 W., Public Works.

Communicated to the Marine Department for information.

2. All masses of metal, whether in or out side the building, such as the copper cupola and the hand-rails of the staircase, should be connected with the main conductor. When this has been done, the Superintending Engineer will arrange for the lightning conductor being tested.

(True Extract.)

To the Superintending Engineer, VI Circle.
" Marine Department.

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

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1888) Madras.

PUBLIC WORKS.

Dated March, 3rd.

Recd.

Encl.

G.O., 3rd March 1888, No. 738 W.

MARCH.

Light-house at Negapatam

Orders on letter from the Superintending Engineer, VI Circle, reporting on his inspection of the —

OFFICE OF THE SUPERINTENDING ENGINEER,

6th CIRCLE.

Trichinopoly 21st February 1888
522

No. 211272

From J. W. Randall Esquire
The Superintending Engineer,
M. I. C. E.

6th Circle.

To

The Chief Engineer
Public Works Department
Madras.

Sir,

I have the honor to report that I inspected the Negapatam Light House on the 15th Instant.

2 The masonry structure is in excellent order.

3 The basement ^{and} rooms have been plastered with Portland Cement since the inspection of the Chief Engineer P. W. D. in February of last year.

4 The Lightning Conductor is carried down inside the Column and the Earth Connection is under the floor. The outside railings have been connected with the Lightning rod which ends in a point carried above the Copper Cupola. The handrails inside have

ENCLOSURES.

have been connected with the Lightning
Conductors at every point where they cross
one another. This is a mistake, the
handrail should be insulated rather
than connected, for were the Building
to be struck and anyone have hold
of the hand rail at the same time, he
might be killed. I would propose
therefore to break this connection and
cut off the hand rail at each crossing
point.

5 I made inquiries as to whether
the Lightning Conductor had been
tested, and was told that it had been
by the Telegraph Master 2 or 3 years
ago. I will try and arrange for its
being done again.

6 The cracks in the Lantern glasses
referred to in Chief Engineer's Inspection
Notes of last year, are generally due to
contraction and expansion of the
Lantern framing: the glasses are not
badly cracked now.

I have the honor to be,
Sir,
Yours most obedient servant.
J. W. Randall
Superintending Engineer Vt. Canal.

W. P. H.

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3

No. 164 W. Apr. 1. 88.
" 446 C. Apr. 2. 88
" 717 C. Apr. 2. 88
" 146 W. Apr. 5. 88
" 1301 W. Apr. 5. 87
" 766 C. Apr. 2. 88

P.W.D. 6th Circle

From
The Superintending Engineer,
6th Circle.

To
The Chief Engineer,
P.W.D.

No. 211278.

Dated 21/2/88 } February 1888.
Received 23/2/88

Enclosure.

Light House at Negapa-
tam: —

Reports on his ins-
pection of the —

With order

Communicated to
the Marine Supt for
information.

2. The Suptg Engineer
will arrange for the
lightning conductor
being tested, after all
masses of metal outside
and inside the building
such as the copper cupola
and the handrails of the
staircase have been
connected with the main
conductor.

WCC
27.2.88

MMh
27/2/88

SE 6th Circle
Marine Supt.

Nov 27.11.88

Note for Hon^{ble} Mr. Subashini

738

From the wording of the draft
I did not gather that the
S.E. was wrong. Para 2
is even there
all masses of metal, in
and outside the building
such as the copper cupola & the
handrails of the staircase
should be connected with
the main conductor. When
this has been done the S.E.
will arrange for the lightning
conductor being tested.

MMh
2 March

The Suptg Engineer
proposes to maintain the
inside hand-rails, which
are presumably of iron, because
in his opinion the discharge
through the hand-rails might
injure any one in contact
with them at the time. This
is opposed to the whole
theory in which lightning
conductors are, or ought to
be constructed. If the
hand-rails are properly
connected with the main
conductor, or with a good
earth, the electric fluid
will not leave the good

3/3/88

conductor to pass through
the body of a man, although
he may be actually grasping
the hand-rail at the
time the discharge is
passing.

Paras XXI - XXIII + XXIV

of the accompanying
regulations for the L.E.

Dept. refer to these points.

Wor

29.2.88

Mh

29/2/88

H.E. Rastby the
draft as ordered -
3/3/88

Wor
29.2.88

No. 738W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 3rd March 1888

Read the following

Letter from the L.E. Circle (No. 2112 J. of July 21. 1888)

Communicated to the

Marine Dept for information.

2. All masses of metal
whether in or outside the
building - such as the copper
cupola and the hand rails of
the staircase - should be
connected with the main
conductor. When this has
been done the Supply Engineer
will arrange for the lightning
conductor being tested.

SE Circle
Marine Dept. 9/3/88

Wor

3.3.88

Mh

3/3/88

738
6

Govt. of Madras.

PUBLIC WORKS.

173/18

Recd.

(8)

Encl.

G.O. 3rd Dec 1868 No. 7384.

The House of
Legislature

Reference to letter from
the Deputy Engineer, V.
to the Registrar, in his
petition of the...

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