

10TH JANUARY 1895, No. 37, JUDICIAL.

GOVERNMENT OF MADRAS.

JUDICIAL DEPARTMENT.

READ—again G.O., dated 6th April 1894, No. 824, Judicial.

ORDER—dated 10th January 1895, No. 37, Judicial.

Several cases have recently occurred in which numbers of unnecessary enclosures have accompanied miscellaneous reports to Government. Attention was drawn to a similar practice in the Government order read above, which, however, only refers expressly to the case of records connected with charges against public servants. Heads of Departments will now be informed that the same principle should be applied to the case of all reports submitted to Government, whatever the nature.

(True Extract.)

E. GIBSON,
Ag. Chief Secretary.

To all Heads of Departments.
„ the Departments of the Secretariat.

Exd. A. Baitt.

Gobt. of {1895} Madras.
JUDICIAL.

Issued

Recd.

Encl.

G.O., 10th January 1895, No. 37.

JANUARY.

Enclosures to Reports.

Prohibiting the transmission of unnecessary enclosures along with reports to Government.

Ex 187 W d 24 January 1895
Communicated to officers
of the P.W. D for information &
guidance in continuation of G.O.
1095 W d 1st May 1894

(Sd, J.P.)

Ch. Sec. for I
C.E. for Lys
P.E.S.
C.A.
Sofw P.P.
Ex. P.W. &
Ex. Lys.

10TH JANUARY 1895, No. 37, JUDICIAL.

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Albuteenath

Jr Ag. Chief Secretary.

To all Heads of Departments. *S.P.W. Dept*
„ the Departments of the Secretariat.

Exd. A. Raitt.

1-5-94 No 1095W

Govt. of {1895} Madras.
JUDICIAL.

Issued 405.C
Recd. 22.1.95 Encl.

G.O., 10th January 1895, No. 37.

JANUARY.

Enclosures to Reports.

Prohibiting the transmission of unnecessary enclosures along with reports to Government.

22/187Wd24 January 1895

Communicated to
officers of the Public Works
Dept. for information
and guidance in
continuance of G.O.
1095W of 1. May 1894.

C. G. Ford.
C. G. Fordys.
S. Ingles.
C. A.
S. W. S. P.
Ex P. W. D.
Ex R. A.
L. S.

DISPATCHED
24 JAN. 95

25 Dec 1895

20/1/2

with order

No. 349BC

Superintending Engineer's Office.

Leamp Guduvu
II CIRCLE,

Dated 16.1.1895
19

From,

Major W. L. C. Baddley Esquire, R. A.

Superintending Engineer,

II Circle.

To,

The Chief Engineer,
P. W. Department,
Madras.

Sir,

In reference to G. O. 2734W
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 Arneghau.

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 galvanized iron wire
proper. The conductivity of the arrange-
ment was found to be perfect and
the resistance to be small, about 1/2
ohm. On testing the resistance of the
earth

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 lightning conductors, the qualitative test is sufficient, except in the case of powder magazines, 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 barked 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

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 rod at the Pulicat light house 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 $12\frac{1}{2}$ ohm which is rather too high.

4. Arneghon. Inspected 11th January 1895. The conductor is arranged in the same way as at Pulicat and

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~~ ^{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 removing the charcoal and making a deeper pit, water was reached and the earth again buried when its resistance was found to be 10 ohm, which however is somewhat too high.

5. The general results are as follows:—

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

Pulicat

Pulicat. Conductor perfect, earth to be again tested with reliable leads. Metal roof of light room & 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 with reliable leads it will be found that they are all satisfactory.

7. Before leaving Benwasa,
I instructed Sergeant Smith
in the testing of Conductors &
and ordered him to go to Divi
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 light
houses in the II Circle will
be in good order.

8. The light houses & 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 cost would
be heavy, but considering the
cost of ropes, cradles, & labour
required to white-wash the
column, I think it would
be

be decidedly worth while 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
that the column should be
a conspicuous land mark, white
or buff paint is recommended.

I have the honour to be,
Sir

Your most obedient servant,

W. B. B. B. B. Major R. B.

Supg Ingr: II Circle

18-1-95

P.W. No. 401

26-10-94 N^o 2734 W
25-10-93 N^o 2730 W
4-8-93 N^o 2014 W
25-10-92 N^o 2945 W

From

The Supy Engineer
2nd Circle.

From,

The Superintending Engineer,

II Circle.

To,

The

412 W

To

The Chief Engineer.
O.W.D.

Dated

Received

18

Recd: 21-1-95

N^o 349 H B.C.

Enclosures.

NO.

Dated. 19-1-95

Encls: Nil

Lightning conductors of
the Light House at Seven
Pagadut. Reports
the results of the exami-
nation of the—

Le 184 W. d. 24 January 1895

SUBJECT

Communicated to
the Marine Dept with
reference to G.O. dated
2^o October 1894 N^o 39 Marine

Sup

DESPATCHED
24 JAN. 95

Marine Dept

24/2