

Financial (1895) Department.

ORDINARY MS.

G.O., No. 74.

DATED 25th Jan'y 1895.

6/7

[Despatch Abstract.]

MANGALORE LIGHTHOUSE.-

Directing the Accountant General to place the sum of Rs 5,972 at the disposal of the Public Works Department from Port Funds for improvements to the lightning conductor of the --.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

[G
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5,000-25-0-24

ORDINARY, MS.

Financial DEPARTMENT.
G.O., DATED *25-1-75*
No. *74*

When given for copying. 28/.

(Despatch Abstract.)

*Directing the accountant
to place the sum of Rs 3972
as the disposal of the Public
Works Department for
Public Works for improvements
to the lightning conductor
of the Mangalore Light house.*

BACK PAPER, No.

OF 189

FURTHER PAPER, No.

186

OF 189

C1396

18

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

ENCLOSURES.

CURRENT NO.

STATEMENT WITH DITTO.

ORDER OF GOVERNMENT

A A

LETTERS OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILED UP, BEING MEANT FOR DEBATOR
IN ORIGINAL (not pagod).

N 36

A = Copy in full
B = Not to be copied.
P = Copy abstract only.
Q = Copy heading only.

17TH DECEMBER 1894, No. 3238 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

G.O., dated 28th April 1893, No. 142, Marine.

Read—the following letter from the Presidency Port Officer, Madras, dated 17th
April 1893, No. 1633/122 G. :—

I have the honour to forward, for sanction and allotment of funds, an estimate from the Executive Engineer, West Coast division (duly countersigned by me), amounting to Rs. 3,190, for effecting certain improvements to the lightning conductor of the Mangalore Lighthouse and connecting the conductor with the river by means of a galvanized iron wire cable. The necessity for the work is pointed out in detail in the correspondence accompanying the estimate. The amount can be met from the South Canara District Port Fund which now has a balance of about Rs. 33,400 to its credit and will form a general charge on the West Coast Lighthouses. I beg that the amount required may be placed at the disposal of the Superintending Engineer, IV Circle, and that the estimate, when sanctioned, may also be forwarded to that officer with its accompaniments.

Order—dated 28th April 1893, No. 142, Marine.

The estimate is approved and will be transferred to the Public Works Department for execution.

2. The question of funds will be considered in the Financial Department.

(True Extract.)

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

Memo. to the Superintending Engineer, IV Circle, dated 20th May 1893, No. 2105 C.

From Major A. W. SMART, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Tirupur, 30th May 1893, No. 216 E.W.

With reference to your endorsement No. 2105 C., * dated 20th May 1893, I have the honour to return, duly scrutinized, the estimate, amounting to Rs. 3,190, for improvements to the lightning conductor of Lighthouse at Mangalore. The papers which accompanied the estimate are herewith returned.

2. I would, however, suggest that, before expending so large a sum, a further reference be made to some competent authority, say, the head of the Telegraph Department at Madras, as to whether there is any real danger to the Lighthouse though the conductor gives so high a resistance as 20 ohms. Will its safety be much increased by a reduction in the resistance?

Endorsement to the Superintendent of Telegraphs, Madras, dated 9th June 1893, No. 2288 C.

From A. L. H. PALMER, Esq., Superintendent of Telegraphs, Madras Division, to the Acting Chief Engineer, Public Works Department, dated Ootacamund, 21st June 1893, No. 5002.

With reference to your endorsement No. 2288, dated the 9th instant, I have the honour to inform you that in this department the maximum resistance allowed for an earth is 10 ohms, and that I consider it very desirable to reduce the resistance of the Mangalore Lighthouse lightning conductor earth to at least the same figure.

2. As so large an expenditure is involved, I may perhaps be permitted to make a suggestion. I notice that the record of tests taken on 23rd January 1892 mentions the lightning conductor earth as being composed of "copper rope." I do not think this copper rope is nearly so satisfactory as a copper earth plate would be. The departmental pattern is made of sheet copper one-eighth of an inch in thickness and about 4 x 3 feet in size, and one of this description could be procured from the department on payment.

3. If such a plate were procured and substituted for the copper rope under water at the bottom of the well, care being taken to fix it *vertically* by wooden struts, it is quite possible the resistance might be largely reduced. Should the well be nearly dry the plate might be kept vertical by filling the bottom with charcoal and old scrap iron up to the top edge of the plate, watering it during the dry season and leading all the surface drainage to the spot during the rains. Neither of these arrangements should be costly, so that it would seem desirable to experiment as indicated before adopting any other method.

4. The papers received are returned as requested.

No. 471 D.

MEMORANDUM.

Read - letter from the Superintendent of Telegraphs, dated 21st June 1893, No. 5002.

Copy of the above forwarded to the Superintending Engineer, IV Circle, with reference to his letter No. 216 E.W., dated 30th May 1893. The suggestion of the Superintendent of Telegraphs should be adopted and the tests re-taken.

26th June 1893.

(Signed) J. HANNAN,
Ag. Chief Engineer, P.W.D.

From J. HANNAN, Esq., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 8th December 1894, No. 517 W.

I have the honour to re-submit for sanction an estimate for Rs. 3,190 for certain improvements to lightning conductor of the Mangalore Lighthouse.

2. This estimate was returned with your memo. No. 471 D. of 26th June 1893, with a copy of a letter from the Assistant Superintendent of Government Telegraphs. The Assistant Superintendent's suggestions were given effect to and the lightning conductor re-tested by the Sub-Assistant Superintendent of Telegraphs with an unsatisfactory result. Copy of his letter is enclosed.

3. The cable which it is now proposed to lay down to the sea will benefit the station generally as the lightning conductors of all the main buildings can be connected with it.

4. There has been a good deal of delay in this matter. It is partly due to the frequent unavoidable changes of Division officers and partly to delay in getting the tests from the Sub-Assistant of Telegraphs as well as other information bearing on the matter.

ORDER - dated 17th December 1894, No. 3238 W., Public Works.

The estimate, amounting to Rs. 3,190, for improvements to the lightning conductor of the Lighthouse at Mangalore, is sanctioned.

2. An allotment of Rs. 3,972, inclusive of the percentage charges, was provided for the work in G.O., No. 469,* Financial, dated 17th May 1893, and this sum was surrendered to the Financial Department in G.O., No. 480 W., dated 20th February 1894. The question of re-allotting the amount in the current official year will be considered in that department.

3. This sanction has been registered as Excluded Local No. 15 W. of 1894-95 and classified as Miscellaneous Public Improvements, Original Works.

(True Extract.)

Under Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with eight enclosures.
" Examiner, Public Works Accounts.
" Financial Department.
" Marine Department.

Exd. C. A. Muniswamy.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1894} Madras.
PUBLIC WORKS.

Dated December, 17th.

Recd. 9-1-95.

Encl. 6 S.C.

G.O., 17th Dec. 1894, No. 3238 W.

CHIEF SECRETARY
DECEMBER.
GOVERNMENT OF MADRAS

Lighthouse at Mangalore

Estimate of Rs. 3,190 for improvements
to the lightning conductor of the —, sanc-
tioned with remarks.

B.C.
9/1/95

W.O.M.

fo. 183: 2-3-94
fo. 469: 17-5-93
fo. 378: 14-4-93
Indo d/15-1-95 No 73
Referred to the Presiding
Port Office for remarks.
(By Order)
Francis
Assistant Secretary.

C.S.
12/1/95

Marine 1895 DEPARTMENT.

From

THE PRESIDENCY PORT OFFICER,

Madras,

To

THE CHIEF SECY. TO GOVERNMENT,

MARINE DEPARTMENT,

Fort St. George.

No. 1633
12 4

Dated 18

Received 19

Encl. 7
41.

January 1895

No.

CHIEF SECRETARY
DECEMBER.
GOVERNMENT OF MADRAS

Subject.

Requesting to re-allot funds
for improvements to the
lightning conductor of the
Mangalore Lighthouse.

WITH ORDER

C.S.
12/1/95

Broken 25 Jan 1895

The Accountant

General in charge of
place in sum of Rs.
3972 (Three thousand
nine hundred seventy
two) at the disposal
of the Public works dep't
from Port funds.

C.S.
22-1-95

CHIEF SECRETARY
DECEMBER.
GOVERNMENT OF MADRAS

C.S.
22/1/95

No. 1633
12 4

135
PRESIDENCY PORT OFFICE,
Madras, 18 January 1895.

Heading.

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

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

Sir,

In reply to Endorsement No. 73 dated
15th January 1895 on (Financial) Current
No. 41, herewith returned, I have the honor
to state that the sum of Rupees (3972) Three
thousand nine hundred and seventy two
required for improvements to the lightning
conductor of the Mangalore lighthouse may
be re-allotted from the South Canara
District Port Fund and will form a
general charge on the West Coast Light-
houses.

I have the honor to be,
Sir
your Obedient Servant,
Walter Powell
Commander R.I.M.
Presidency Port Officer.

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When copied _____
When examined _____
When signed _____

189

READ AGAIN G.O., No. _____
189 _____

DATED

CURRENT No.

ENCLOSURES TO G. No.

ORDER OF GOVERNMENT

A A A A A A A

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