M.R.O. 1—77,006—8-6-37.

(1) Number of pages 18

(2) Date of repair 19 Nov 43

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 2053 Press / Mis.

535-36

Dated 24. 6 1869.

Not to be folded or roughly handled

No. 535. Read the following Proceedings of the Madras Government in the Marine Department, dated 9th June 1869, No. 135:—

Read the following letter from the Officiating Secretary to the Government of India, to the Chief Secretary to Government, Fort St. George, dated Fort William, 17th May 1869, No. 20.

REFERRING to the letter from this office, No. 27, dated 16th January 1869, and No. 32, dated 24th March 1869. to previous correspondence on the subject, I am now desired to transmit, for the information of the Right Honourable the Governor in Council, copies of a letter, with enclosures, from the Right Honourable the Secretary of State for India, relating to the Mangalore and other light-houses on the Madras Coast.

From the Right Honourable the Secretary of State for India, to His Excellency the Right Honourable the Governor-General of India in Council, dated India Office, London, 24th March 1869, No. 32.

THE particulars regarding Mangalore and other light-houses on the Madras Coast, forwarded with your Marine Despatch, No. 5, dated 19th January 1869, having been communicated to Messrs. Chance Brothers who are constructing the light apparatus for these edifices, I enclose for your information a copy of a letter* which has in consequence been received from Messrs. Chance.

* Dated 27th February 1869.

GLASS WORKS, NEAR BIRMINGHAM,
27th February 1869.

SIR,

WE have given our attentive consideration to the drawings and correspondence transmitted to us with your letter of the 18th instant, referring to the light-house apparatus which we are constructing for Madras.

We return all these enclosures to you this day by passenger train, viz., thirteen sheets of drawings and eighteen pages of correspondence.

We note from Colonel Orr's letter—

(1). The respective heights of the eight towers and the three flag staves.

(2). That the balustrades for the fourth order lights will be supplied at Madras.

(3). That cast-iron columns and service-rooms are not needed for the sixth order lights.

We have examined the drawings of the towers destined to receive seven of the fourth order lights, with the view of arranging the connections with our lanterns.

The external diameter of the base of our lanterns of the fourth order is 6′ 10″, as is shown on our drawing sent out by you to India.

It is desirable that a balcony railing should be placed around the lantern to facilitate the cleaning of the glass panes externally, and for other purposes.

The total diameter necessary for the lantern and balcony is nine feet as a minimum, but ten feet is to be preferred.

Applying this condition to the towers in question, we observe by the drawings that the top of the respective towers of *Tuticorin*, *Santapilly*, and *Negapatam*, is sufficiently spacious to receive of our lantern and a suitable balustrade, as the dimensions are respectively of 11′ 0″, 9′ 6″, and 13′ 4″ approximately.

The case is different with *Armeghon* (or Monopalliam,) *Point Divi*, *Mangalore*, and *Pulicat*, whose respective dimensions at the top are 8′ 8″, 7′ 6″, 8′ 6″, and 6′ 0″ approximately.

But in three of these cases it would be quite practicable to place the lantern at a lower level than the top of the tower, as thus—

Armeghon, at the level of the present balcony, where the diameter is about twelve feet.

Point Divi, at the level of the present balcony, where the width is about 16′ 3″.

Pulicat, at a level of about 5′ 9″ from the top, where the diameter is about 11′ 9″.

In the case of *Mangalore*, it will be easy to place a new platform of the needful dimensions (from nine to ten feet.)

As regards *Cape Comorin*, no drawing of the tower has been sent to us; but the proposed lantern apparently taken from the Hope Island Lantern, shows a diameter almost identical with that of our lantern, so that the tower will have been properly prepared to suit it.

Looking at the modifications which will probably be thus made in the upper portion of the respective towers, and at the absence of a sufficiently minute plan of those platforms where *no* change need be made, we have decided to send out all the lanterns and the pedestals of the optical apparatus without drilling any holes in the flanges for the holding-down bolts by which the attachments to the towers are made. These holes had better be drilled in India as may be required in each case. To facilitate the drilling, we will send out a proper ratchet brace and drills. We will send out a sufficient number of holding-down bolts, well screwed and of the maximum probable length, so that they can be cut as required to suit each particular tower.

The drawings of the flag-staves require no comment, as we have only to supply a signal lantern of the sixth order in each case, which will be placed on the platform indicated. This signal lantern will have no wrought-iron hoisting-arms or accessories of any kind.

We hope to report to you at an early date the readiness for delivery of all the lanterns and apparatus under our contract.

We are, Sir,
Your obedient Servant,
For CHANCE BROTHERS AND CO.,
(Signed) J. KENWARD.

The Director General of Stores,
India Office, Westminster,
London, S. W.

Proceedings of the Madras Government, Public Works Department,
24th June 1869.

COMMUNICATED to the Public Works Department and to the Master Attendant, Madras.

(True Extract.)

(Signed) R. S. ELLIS,
Chief Secretary.

No. 536. ORDER THEREON, 24th June 1869, No. 2,053.

CIVIL WORKS, No. 80.

COMMUNICATED to the Superintending Engineers of the 1st, 2nd, 4th, 6th, 7th, and 8th Divisions.

(True Extract.)

Colonel, R. E.,
Secretary to Government.

Despe 25/6/69.

51
7

Civil Works

No 2053

I communicated the
Superintending Engineer
of the 1st - 2d - 4th - 6th -
7th and 8th Divisions

Fort St George
24th June 1869

To the Supt Engineers
1st - 2d - 4th - 6th - 7th & 8th Divisions

Desp 25/6/69.

Govt. of (1869) Madras

PUBLIC WORKS

THE SUPERINTENDING ENGINEER

1st, 2nd, 4th, 6th, 7th and 8th Divisions

Dated June

Read.

O. C.

No. 2458

Govt. of {1869} Madras.

PUBLIC WORKS.

To The Superintending Engr &c &c
for 2 Copies of Tracing &c &c &c Division

Dated
Recd. 19.11 Encl.

G. O. 24th June 1869, No. 2053

Nos. 585-536

English Lights. Purchase
Dept. on a letter from
the Govt of India for-
-warding certain papers
to the Home Govt re-
-garding Light-houses
on the Madras Coast,
Copies to the Offices
concerned.

RD.