

(1) Number of pages 6

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. <u>3845</u>	Press
<u>210-211</u>	Mis.
Dated <u>10-12</u>	<u>1864</u> .

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
10th December 1867.*

No. 210. Read the following Proceedings of the Madras Government in the Marine Department, dated 28th November 1867, No. 302.

Read the following letter from the Superintendent of Marine, to the Chief Secretary to Government, Fort St. George, dated Madras, 25th November 1867, No. 3,831:—

Referring to Proceedings of Government of the 14th instant, No. 285, I have the honor to suggest that the 3rd paragraph of the letter from Messrs. Chance Brothers and Co., to the Director General of Stores, of the 14th September last, therein recorded, calling for a sketch, in plan and elevation, of the top of each column on which it is proposed to place a new lantern, be transferred to the Secretary to Government, Public Works Department, in view to orders being issued on the subject.

Ordered that the foregoing letter and the despatch from the Home Government of the 7th October 1867, No. 92, with its enclosures, be communicated to the Public Works Department, in view to a sketch of the description required in paragraph 3 of Messrs. Chance Brothers and Co.'s letter being called for, for transmission to England.

(True Extract.)

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

No. 211. ORDER THEREON, 10th December 1867, No. 3,845.

CIVIL WORKS, No. 42.

Communicated to the Superintending Engineers of the 1st, 2nd, 4th, 6th, 7th, and 8th Divisions, who will furnish the sketch required of the top of each of the towers referred to in the Order of the Marine Department of the 13th May 1867, No. 109.

(True Extract.)

(Signed) CHARLES A. OKR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineers, 1st, 2nd, 4th, 6th, 7th, and 8th Divisions,
With Marine Proceedings Nos. 109 and 285 of 1867.

Exd. S. T. Augustin.

Re-printed 42 Copies.

11-12-67

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Proceedings of the Madras Government, Marine Department,
14th November 1867.

No. 36. Read the following Despatch from the Right Honorable the Secretary of State for India, to His Excellency the Right Honorable the Governor in Council, Fort Saint George; dated India Office, London, 7th October 1867, No. 92.

Military.

I have received and considered in Council your Marine letter, No. 8, of the 17th May last, with the accompanying correspondence, and an Indent for eleven lights for Light-houses and Light Vessels on different points of the Madras coast.

2. The Indent does not contain such information and details concerning the several lights as are necessary to enable the manufacturers to construct them, and in its present form cannot, therefore, be complied with.

3. I send, herewith, copy of a letter* from Messrs. Chance Brothers of Birmingham addressed to the Director General of Stores for India, pointing out the discrepancy which exists between the "orders" of the different lights

* Dated 14th September 1867.

demanding and the distance which they are required to be seen, and noticing other points upon which full and explicit information should be given in the case of every light.

4. I also enclose for your information the copy of a Despatch addressed by me to the Government of India in the Public Works Department, No. 47, dated 31st May last, upon the subject of Light-house and Light apparatus for the coasts of India, and in accordance with the directions contained in the 3rd paragraph of that Despatch, I desire that you will cause a revised and corrected Indent for the eleven lights to be forwarded to the Government of India for consideration and transmission to this country, and thus avoid the delays and serious errors which might arise by sending Home incomplete demands as has been done in the present case.

From Messrs. CHANCE BROTHERS & CO., to the Director General of Stores, Westminster; dated Birmingham, 14th September 1867.

Madras Lights.

Referring to your letter of the 20th ultimo, accompanied by a collection of papers on the subject of eleven new lanterns and lights for the Madras Presidency, for the supply of which we are requested to submit a tender, together with any remarks pertinent to the question, we beg to state that before preparing an estimate in accordance with the prices approved by the Indian Government, we should be glad to have information on the following points:—

1. We are of opinion that the ranges of visibility respectively appropriated to the proposed lights by the Superintendent of Marine at page 15 of the printed documents, are in general considerably too great. The extreme distance at which Fixed Dioptric apparatus of the 4th and 6th Order can be seen in a mean state of the atmosphere, is respectively eleven miles and eight miles. The greater and lesser distances of visibility under exceptional atmospheric conditions of clearness or mistiness, ought not to be taken into account in determining the order of the apparatus to be employed.

We therefore request to know whether, on the one hand, the stipulations as to range can be reduced to suit the mean power of the apparatus proposed; or whether, on the other hand, apparatus of larger dimensions can be selected to give effect to the stipulations.

We enclose a table derived from the most authentic sources, which shows the power of each apparatus from the 1st to the 6th Order.

2. We require to know in each case the exact distance from high water to the top of the tower, where the light is on a tower, and to the part of the mast to be occupied by the lantern, where the light is on a mast. The diameter of the mast at that part should also be given.

3. We wish to have a sketch of the top of each of the towers in question (in plan and elevation); so that we may make the proper arrangement for the attachment of our lantern and light-room. We assume that for all the lights on land, a lantern and its light-room are to be supplied.

If there be any modification in this respect we shall be glad to know it. In any case, the sketch of the tower top is requisite.

Not to be taken for Current to Madras to be printed Department

*Proceedings of the Madras Government, Marine Department,
14th November 1867.*

We return herewith the printed documents and the Indent sent for our perusal.
P. S.—Our remarks as to range, and the enclosed table, apply to *white* lights, and must be taken *a fortiori* as regards *red* lights, which do not command so great a range at any time as bright lights.

Table of Range of Dioptric Lights.

Order.	Fixed light.			Revolving light.
	State of Atmosphere.			
	Very clear.	Mean.	Misty.	Mean.
First...	Miles.	Miles.	Miles.	Miles.
Second....	39.3	20.2	9.8	27.9
Third.	33.9	18.0	8.9	25.3
Fourth.	24.0	13.9	7.3	21.2
Fifth...	17.8	10.8	6.0	17.4
Sixth..	12.9	8.6	5.0	14.7
	11.3	7.8	4.6	

Copy of Public Works Despatch to India, No. 47, dated 31st May 1867.

In order to ensure uniformity in the principle of supply, and of the patterns of all Light-house apparatus which may be required for the coasts of India, &c., I have, at the recommendation of Colonel Fraser, directed that a running contract be entered into for the period of one year with Messrs. Chance Brothers of Birmingham for the supply of all new light apparatus which may be required for India. Messrs. Chance are the sole manufacturers in this country of the optical apparatus for Light-houses.

2. Under this arrangement Messrs. Chance will be held responsible for the quality and workmanship of all articles manufactured by them, and will not be relieved from liability until the receipt in this country of a certificate from the officer who may be employed by you to erect the apparatus, that the work is complete, and has been properly executed.

3. As it is most important that a uniform principle of lighting the coasts of India should, as far as possible, be maintained, and that Indents for light apparatus should be carefully considered and prepared, before transmission to this country, by a competent officer, by which difficulties and delays, and the necessity for reference back to India for information, might be avoided. I have to request that you will give instructions to the Governments of Madras and Bombay to cause all Indents for new apparatus for Light-houses to be forwarded, in the first instance, to you for examination, and transmission to this country.

4. Indents for additional stores, or spare apparatus for existing lights, might, to save delay, be still forwarded direct to me.

(Signed) STAFFORD H. NORTHCOTE.

Transferred to the Marine Department.

(Signed) H. MARSHALL, Major General.

Secretary to Government, Mily. Dept.

FORT SAINT GEORGE,
12th November 1867.

No. 37.

ORDER THEREON, 14th November 1867, No. 285.

The attention of the Superintendent of Marine is specially directed to paragraph 4 of the Despatch of the Secretary of State for India, noticing the incomplete manner in which the recent Indents have been prepared in the Marine Department.

(True Extract).

(Signature)
Chief Secretary.

To the Superintendent of Marine.

Exd. J. Tulloch.

*Proceedings of the Madras Government, Marine Department,
28th November 1867.*

No. 76. Read the following letter from the Superintendent of Marine, to the Chief Secretary to Government, Fort Saint George; dated Madras, 25th November 1867, No. 3831.

Referring to Proceedings of Government of the 14th instant, No. 285, I have the honor to suggest that the 3rd paragraph of the letter from Messrs. Chance Brothers and Co., to the Director General of Stores, of the 14th September last, therein recorded, calling for a sketch, in plan and elevation, of the top of each column on which it is proposed to place a new lantern, be transferred to the Secretary to Government, Public Works Department, in view to orders being issued on the subject.

No. 77. ORDER THEREON, 28th November 1867, No. 302.

Ordered that the foregoing letter and the despatch from the Home Government of the 7th October 1867, No. 92, with its enclosures, be communicated to the Public Works Department, in view to a sketch of the description required in paragraph 3 of Messrs. Chance Brothers and Co.'s letter being called for, for transmission to England.

(True Extract).

(Signature)
Chief Secretary.

To the Public Works Department, with Proceedings No. 285.

Superintendent of Marine.

Exd. J. H. Burns.

(Signature)

Box 1047
Spring-Branch Mo 66002

Link

Pratt & Sons
Maurice Sept

254
CIA 38415

Command to the City

at 20 hours } 1005
for 30 days }

no 1000

Requesting that a
sketch of the top of each
column on which it is
supported & place new lantern
may be furnished for them.
- inspection of the design of that
for which it is

CIA 38415-1047 Dec 1867

CIA 210-211

Will be done

Start 81 days
105 Dec 1867

655 1-2-4-6-7-8-9

with Maurice Dec 1098 285 of 117-

Dec 11/14/67