

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 865	Press Mis.
346-347	
Dated 16 - March 18 66.	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
16th March 1866.*

No. 346. Read the following Proceedings of the Madras Government in the Marine Department :—

Approving of the plan of the projected Light-house column at Cochin ; directing that the attention of the Superintending Engineer, 7th Division, be called to the remarks of the Superintendent of Marine, relative to the substitution of granite for laterite in parts of the structure, and authorizing the latter Officer to make a further advance of Rupees 5,000 from the Port Funds of Cochin, for the prosecution of the work.

(Here enter 9th March 1866, No. 64.)

No. 347. ORDER THEREON, 16th March 1866, No. 865.

CIVIL WORKS, No. 41.

Communicated to the Superintending Engineer of the 7th Division, whose particular attention is requested to paragraph 1.

(True Extract.)

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

To the Superintending Engineer, 7th Division, with detailed Estimate.
,, Accountant General
,, Controller of Public Works Accounts.

Exd. S. T. Angustin.

*Proceedings of the Madras Government, Marine Department,
9th March 1866.*

Read the following papers :—

No. 5. From the Superintending Engineer, 7th Division, to the Secretary to Government, Public Works Department, Fort Saint George; dated Mangalore, 19th January 1866, No. 237.

I have the honor herewith to submit, for sanction, the Plan and Estimate* for a Light House Column at Cochin, called for in G. O., No. 1369, of 19th May, and according to which building operations have for some time been in progress, with the funds appropriated under

* No. 68 of 1865-66.
Enclosures 3.
Plan is sent separately.

G. O., No. 1634, of 13th June 1865. The amount, Rupees 15,000, is higher than I anticipated; but good laterite is not obtainable within a moderate distance, and labor, when the Port is open, has to be paid for very highly. The cut granite stone, also, which it is proposed to use for projections, will be expensive. But, in consideration of the object to be attained and the funds available, the estimated cost is not excessive, and I anticipate sufficient savings on the same to provide accommodation for the attendant Lascars, on a Plan hereafter to be submitted.

2. It is not proposed to plaster the Column, but only to white-wash it with three coats, renewable annually, for which purpose a number of permanent circular openings will be left, through which to thrust scaffolding poles. The exact manner in which the top will be finished for the reception of the Lantern cannot be definitely shown until it is received, as sufficient information concerning it is not derivable from the drawings which have been supplied. I have the honor to request that a further allotment of Port Funds may be made at an early date.

Referred to the Marine Department.

FORT SAINT GEORGE,
26th January 1866.

(Signed) C. A. ORR, Colonel, R. E.,
Secretary to Government, P. W. D.

Referred to the Superintendent of Marine, for his remarks.

FORT SAINT GEORGE,
29th January 1866.

(Signed) A. J. ARBUTHNOT,
Chief Secretary.

No. 6. From the Superintendent of Marine, to the Chief Secretary to Government, Fort Saint George; dated Madras, 17th February 1866, No. 714.

I have the honor to return the letter from the Superintending Engineer, 7th Division, to the Secretary to Government, Public Works Department, submitting plan and estimate of the Light House Column at Cochin, forwarded for remark on the 29th ultimo.

No. 237, of 19th January 1866.

2. The only observation the estimate seems to call for is its increase to a sum so considerably beyond what was expected. The first estimate for a laterite Column of 105 feet in height was 11,000 Rupees. This was reduced by the Superintending Engineer to Rupees 8800, the height at the same time being decreased to 95 feet. The present tower is intended to be only 85 feet high, but the expense is set down at 15,000 Rupees.

Proceedings of Government, Public Works Department, 19th May 1865, No. 1369.

3. I presume that this cannot be reduced without in some way interfering with the efficiency of the structure, except, perhaps, in one of the materials used. I allude to the very heavy expense of substituting granite for laterite in parts of the building. The cost of granite is 3 Rupees the cubic foot, while laterite in mortar ranges from 4 to 5½ Annas for the same quantity. I think, therefore, that a saving might be effected here. The item for granite is Rupees 2856, and by dispensing with it altogether, or reducing the quantity as may seem best to the Superintending Engineer, having due regard to the stability of the building, the total outlay might be brought within more moderate limits.

*Proceedings of the Madras Government, Marine Department,
9th March 1866.*

4. But whatever may be the action taken on these remarks, I would deprecate any step that would interfere with the progress of the Column, which is so much required.
5. The Superintending Engineer asks for a further advance from the Port Fund, and I solicit that 5000 Rupees may be transferred from it to the Public Works Department for this purpose.

No. 7. ORDER THEREON, 9th March 1866, No. 64.
The Governor in Council approves of the plan of the projected Light House Column at Cochin, but directs that the attention of the Superintending Engineer, 7th Division, be called, through the Public Works Department, to the remarks of the Superintendent of Marine, with reference to the proposed substitution of granite for laterite in parts of the structure, thus materially enhancing the cost of the Column.

2. The Superintendent of Marine is authorized to make a further advance of Rupees 5000, from the Port Funds of Cochin, for the prosecution of the work.

(True Extract).

H. J. Burns
Chief Secretary.

To the Public Works Department, with Plan and Estimate. ✓
Superintendent of Marine.

Erd. J. H. Burns.

DM 1035/66.

referred to

[Faint, mostly illegible handwritten notes and signatures at the top of the page, possibly including a date like "Jan 1886"]

Estimate of the probable expense for constructing a light house at North in the District of Columbia
 1886

Quantity	Description of Work	Rate	Amount	Remarks
172 3/4	Butt of Mangrove Mangrove wood	1 1/4	216.9	
4050	Butt of Palmetto in the water	35	141.8	
3265 1/2	Butt of Mangrove Concretes	20	653.2	
	Containing 72 Wells	2	144	
15339	Butt of Palmetto in the water	25	383.4	
1487 1/2	Butt of Palmetto in the water	30	446.1	
952	Butt of Palmetto in the water	3	28.56	
5726 1/2	Butt of Palmetto in the water	6	34.35	
70 1/4	Butt of Mangrove wood	1	70.4	
69	Butt of Mangrove wood	5	34.5	
37 1/2	Butt of Mangrove wood	2	75	
150	Butt of Mangrove wood	1	150	
	Containing all joining and meeting lumber	100	100	
			14095.31	

Digging foundations, erecting temporary sheds, scaffolding and lumber — 924.00

Total Estimated Amount Due — 15000.00

Approved by the Board of Commissioners
 Approved by the Board of Commissioners
 Approved by the Board of Commissioners

19th May 1865-406-
407
13th June - 332-333

Dr J. H. Storer
No. of Fort St. John
To: of the Marine Dept
in the Marine Dept

and

1865

Council to the

Supy Engineer of the

7th Div, Culver's Fort

Culver's attention is

respected to please

Dr. J. H. Storer
1865-16th March 1866

Approval of
the plan of the proposed
light stone column at
Culver's Fort

that the attention of the
Supy. Eng. be called
to the remarks of the Capt
Marine, relative to the
substitution of granite for
limestone in the
structure, and authorizing
the latter officer to make
a further estimate of the
cost from the estimate of
the work for the execution of
the work

Supy 8th Corps
16th March 1866

and

to the 7th Div, Culver's Fort

to the 7th Div, Culver's Fort

to the 7th Div, Culver's Fort

1865-346-347