

(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. 139,140	1880	Press Mis.
Dated	9-8-	18 72.

Not to be folded or roughly handled

1-1.

*Proceedings of the Madras Government, Public Works Department,
9th August 1872.*

No. 139. Read the following letter from the Master Attendant, Administrative Department, to the Secretary to Government, Public Works Department, dated Madras, 17th June 1872, No. 3,359 —

I HAVE the honour to acknowledge receipt of memorandum of the Chief Engineer, Madras Presidency, dated 8th May 1872, and the Orders of Government thereon, dated 11th June 1872, No. 1,449.

2. In pursuance of orders conveyed to me in paragraphs 6, 8, and 12, I lose no time in reporting on the requirements of Calicut, and the cost and species of lights required for Cape Comorin and the Crocodile Rock. A report on the probable cost of the operations contemplated at Coringa and Cocanada will follow.

3. In regard to the Port of Calicut, I have already some time ago transferred a beacon buoy and mooring chains from Cochin to that port to be laid down at the close of the south-west monsoon on the rocky patch termed "Coote Reef." At the close of the south-west monsoon "the north patch of rocky ground," mentioned in Mr. Robertson's report, will be surveyed by the Master Attendant, and one or more buoys laid down to mark the danger and guide vessels from the southward to the anchorage opposite the pier.

4. I now turn to the question of lights for Cape Comorin and the Crocodile Rock.

5. I respectfully refer Government to my letters* regarding these proposed lights, which I understand have been forwarded to His Grace the Secretary of State for India for his decision on the subject.

* Dated 13th September 1871.
" 5th February 1872

*First order fixed Dioptric Light by D. and
P. Stephenson, Civil Engineers.*

Lantern complete	£ 751
Apparatus do	1,245
Mechanical lamps	188
Stores	28
Lamp glasses	27
Oil cisterns	64
	2,303 or
	RS
	23,030

Estimate by Department Public Works for constructing a lighthouse for fourth-class light on Cape Comorin.	11,750
Add for first-class light; say	1,250
	36,030

6. I note in the margin total cost of a first-class light for Cape Comorin, partly based on estimates furnished by the Superintending Engineer, 8th Division, on the 10th August 1869.

7. In regard to the cost of a light on the Crocodile Rock, the only approximate estimate I can furnish is that of the cost of construction of the Skerryvore lighthouse on the west coast of Scotland, erected by that eminent Engineer Mr. Alan Stephenson. The contingent expenses will probably be much the same.

8. A settlement for the workmen must be established on the mainland.

Lighters must be built for the transport of the material from the shore.

9. A moderate sized steamer must be bought or built for towing the lighters off to the scene of operations every morning at day light, and to tow them back when unloaded to safe anchorage every night, at the same time carrying the people engaged on the work to and fro.

*Proceedings of the Madras Government, Public Works Department,
9th August 1872.*

10. Mr. Alan Stephenson, C. E., with an unlimited supply of skilled English labour and energy, in a temperate climate, was occupied six years in building the Skerryvore lighthouse, and it cost the State £ 86,977-17-7 = Rupees 8,69, 6-12-8.

11. I may also add that a sufficient area of dry space was available on the Skerryvore rocks for the erection of a wooden barrack for the protection of the workmen, when in stormy weather it was quite impossible to return to their quarters at Hymish. On the Crocodile no such refuge can be constructed, the back of the Crocodile being generally only seen at low water, and then at awash.

12. The fourth-class revolving dioptric bright light, now in store at Tuticorin, is already paid for, and if set up on Point Cadiapatam, which is 80 or 90 feet above the sea level, and 2½ miles from the Crocodile Rock, ought not to cost more than 8,000 or 9,000 Rupees.

13. In regard to the light proposed by Mr. Robertson at Point Calimere, if a ship channel is accomplished by the Paumben route a light will be required on Kari Tivoc Island,* westward of the ship's course to the northward through Palk's Straits, and it will be a question then whether a minor light will be required for Point Calimere. As I expect to meet Mr. Robertson two months hence at Paumben, we can then confer on the subject of lights for Palk's Straits.

No 140. ORDER THEREON, 9th August 1872, No. 1,880.

CIVIL WORKS, No. 8

THE Governor in Council will expect a further report when both the dangers of the Calicut Port shall have been properly buoyed.

2. The question of lights for Cape Comorin and the neighbourhood of the Crocodile Rock will lie over until receipt of Commander Taylor's opinion requested in letter to the Secretary of State for India, No. 4 of 16th February 1872. The Government never contemplated the erection of a lighthouse on Crocodile Rock itself. They note that in G. O. No. 262 of 13th September 1871, orders were issued to ascertain the difference between cost of building on Kotah Island or on the main land; but it was omitted to call for information as to the relative annual cost of maintaining the necessary establishments at these places, a still more important point, on which Mr. Dalrymple's report is now called for.

3. The question of lights at Point Calimere will be decided when the subject of a ship canal at Paumben is taken into consideration.

(True Extract.)

Colonel, R. E.,

Secretary to Government.

To the Superintending Engineers, 7th and 8th Divisions

„ Marine Department.

„ Master Attendant, Administrative Department.

Exd E. C. Shunker.

Administrative Department.

Madras.

Marine Office

17th June 1872

From the Master Attendant

Administrative Department

Madras.

The Secretary to Government

Public Works Department

Fort Saint George.

Sir,

I have the honour to acknowledge receipt of Memorandum of the

Chief Engineer, Madras Presidency, dated

8th May 1872, and the order of Govern-

ment thereon, dated 11th June 1872,

No. 1449.

In pursuance of orders

conveyed to me in Paras 6, 8 and 12,

I lose no time in reporting on the

requirements of Calicut, and the cost

and species of lights required for

Cape

Cape Comorin and the Crocodile Rock -
 A report on the probable cost of the
 operations contemplated at Coringa
 and Cocanada will follow.

3. In regard to the Port of
 Calicut, I have already some time
 ago transferred a Beacon Buoy and
 mooring chains from Cochin to that
 Port, to be laid down at the close of
 the S.W. Monsoon on the rocky patch
 termed 'Coote Reef'. At the close of the
 S.W. Monsoon, the North patch of
 rocky ground mentioned in Mr. Robert-
 son's report will be surveyed by the
 Master Attendant, and one or more
 buoys laid down to mark the danger,
 and guide vessels from the Southward
 to the anchorage opposite the Pier.

4. I now turn to the question
 of lights for Cape Comorin and the
 Crocodile rock.

5. I respectfully refer Govern-
 ment to my letters regarding these
 proposed lights, which I understand
 have

have been forwarded to His Grace the
 Secretary of State for India, for his
 decision on the subject.

6. I note in the margin

First order fixed Dioptric light.	
By J. and J. Stephenson, Civil Engineers	
Lantern Complete.	£ 751
Apparatus	1245
Mechanical lamps.	188
Stores	28
Lamp glasses.	27
Oil Cisterns.	64
	£ 2303

Estimate by J. P. W. for constructing a Light House for 4 th Class Light on Cape Comorin	11750
Add for 1 st Class Light say	1250
	36030

X (Signed) J. P. W.
 11.7.1869

total cost of a
 First Class light
 for Cape Comorin,
 partly based on
 Estimates furnished
 by the Superin-
 tending Engineer,
 8th Division, on
 the 10th August 1869.

In regard to the cost of
 a light on the Crocodile rock, the
 only approximate estimate I can
 furnish is that of the cost of con-
 struction of the Sherryvore light
 House on the West Coast of Scotland
 erected by that eminent Engineer
 Mr. Alan Stephenson. The contingent
 expenses will probably be much the
 same.

A settlement for the work-
 men

* Dated 13th Sept. 1871.
 - 5th February 1872

Not registered
 in P. H. S. pro-
 bably in Marine
 Dept. where
 Registers are not
 recommended

men must be established on the main
lands. Lighters must be built for the
transport of the material from the
shore.

9. A moderate sized Steamer
must be bought or built, for towing
the lighters off to the scene of opera-
tion every morning at day light,
and to tow them back when unloaded
to safe anchorage every night - at
the same time carrying the people
engaged on the work to and fro.

10. Mr. Alan Stephenson & Co.
with an unlimited supply of skilled
English labour and energy, in a
temperate climate, was occupied 6
years in building the Skerryvore
light-house, and it cost the State
£ 86,977.17.7 = Rupees 8,69,778.12-8.

11. I may also add that
a sufficient area of dry space was
available on the Skerryvore rocks
for the erection of a wooden Barrack
for the protection of the workmen,
when

when in stormy weather it was quite
impossible to return to their quarters
at Hymish - On the Crocodile no
such refuge can be constructed, -
the back of the Crocodile being gene-
rally only seen at low water,
and then at a wash.

12. The 4th Class revolving
dioptric bright light, now in store
at Tuticorin, is already paid for,
and if set up on Point Ladiapattam,
which is 80 or 90 feet above the Sea
level, and 2½ miles from the Cro-
codile rock, ought not to cost more
than 8,000 or 9,000 Rupees.

13. In regard to the light
proposed by Mr. Robertson at Point
Calimere - if a ship channel is ac-
complished by the Paumben route,
a light will be required on Hari
Tivoe Island,* westward of the ship's
course to the Northward through
Palho's Straits, and it will be a ques-
tion then whether a minor light
will

* called by
the Dutch
when in
possession
of Soffna
Amsterdam
Island's

will be required for Point Calimere.
As I expect to meet Mr. Robertson
2 months hence at the Pamban,
we can then confer on the subject
of lights for Palis Straits.

I have the honour to be

Sir

Your most obedient servant

H. D. S. Deringham

Master Attendant
Administrative Department

1880. P. M. A.

Part of the Madras Port

Read the following:

From the Master Attendant,
Ad. Dept. —

M. No. 3359 of 17 June 80

The Government
will expect a further
report when both the
dangers of the Calicut
Port shall have been
properly buoyed.

The question of lights
for Cape Comorin and
the neighbourhood of
the Crocodile Rock
will be ^{over} until receipt
of Commander Saylor's
opinion

opinion requested in
letter to the Secretary
of State for India
No. 4 of 16 February
1872. The Government
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the erection of a light
house on Crocodile
Rock itself. They
note that in S. O. No.
262 of 13 September 1871
orders were issued to
ascertain the difference
between cost of building
on Katak Island or
on the mainland,
but it was omitted
to call for information
as to the relative

annual cost of main-
-taining the necessary
establishments at these
places, a still more
important point, on
which Mr. Dalrymple's
report is now called for.

The question of
lights at Point Calimere
will be decided when
the subject of a ship
Canal at Pamban
is taken into consideration.

G.M.W.

13. Engrs 7: & 8: 00
11 Marine Dept
3 Master Attendant
Desp. 14/8/72.

To 3130

Govt. of Madras.

PUBLIC WORKS.

The Superintending Engineer
of the 4th & 8th Divisions

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Encl

G. O. 9th Aug 1880.

Nos. 134 & 140

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the morning, and
scadite lock. Paper
less on letter from the
the attendant re-
solving the requirements
Salient, &c -