

(1) Number of pages _____

(2) Date of repair _____

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MADRAS RECORD OFFICE

Government of Madras

Public works DEPARTMENT

G.O. No.	1784	Press
B.P. No.		Mis.
178-179		
Dated	11. 7.	18 73.

Not to be folded or roughly handled

Read the following papers:—

No. 178. From J. W. RUNDALL, Esq., District Engineer, Tinnevely,
Colonel G. W. WALKER, R.E., Chief Engineer and Secretary to
Government, Public Works Department, dated Palamcottah, 31st May
1873, No. 35.

I HAVE the honour with reference to Government Orders Nos. 2,482 and 72,
dated 22nd October 1872 and 10th

- 1 Plan of Cape Comorin Lighthouse.
- 1 " of Muttum do.
- 1 " of European Light-keeper's quarters.
- 1 " of Native do.
- 1 Site Plan.

5 Sent by Banghy.

- 1 Abstract Estimate of Cape Comorin Light-house.

- 1 Do. Muttum do.
- 1 Specification of Light houses.
- 1 Do. of out-houses.

January 1873, respectively, to forward herewith plans, specifications and estimates for the light-houses and subsidiary buildings at Muttum and Cape Comorin.

2. My object has been in designing these buildings to make them as substantial as possible, for situated as they are at a distance from British territory and officers, any repairs would

entail considerable trouble in supervision. The specification will show that only first-class work is intended.

3. The base of the column is designed to afford space for the oil and other stores, and shelter for the lascars while cleaning the lights and apparatus.

4. A hollow newel has been provided for the Comorin Lighthouse to admit of the passage of weights for working the revolving light; at Muttum the newel is solid.

5. With regard to the materials to be used, I have allowed for cut-stone throughout the shaft. The brick to be obtained in the neighbourhood both of Comorin and Muttum is not of good quality, hence I would not like to use it in the shaft.

6. As regards the rates, I have allowed those which, after our experience at Tuticorin, I believe to be only sufficient. At Comorin the Dewan has promised us stone from the old line of entrenchments running from Wattakottai Fort along the Travancore boundary, and from some small detached forts along this line; the stone is principally wedged blocks, and but few of them dressed at all. For our purposes we must consider them undressed, as we shall have to recut them entirely. These have to be carted about four miles, half of which distance is loose sand. The stone is granite and of very good quality.

7. At Muttum the stone is gneiss, and for our work will have to be wedged from the boulders lying on the foreshore of the Cape and carried up to the lighthouse site. The boulders are in many cases split, and I think there will be considerable wastage as we may have to reject a good deal of what is wedged out.

8. In the Muttum Lighthouse a recess has been provided in the base of the column for the exhibition of a red light bearing on the Crocodile Rock. I consulted Mr. Dalrymple as to the size I have adopted, and he agreed that it would be suitable.

*Proceedings of the Madras Government, Public Works Department,
11th July 1873.*

9. I suppose that the light apparatus for these works has not yet been ordered from England; in this case, if the drawings now sent are approved, it might be well to send home drawings of the upper part, in order that the makers may inform us early if the masonry need be altered in any way to suit the lights.

10. With regard to the superintendence of these works, it will be possible as long as the present staff is in the district to arrange for an Assistant Engineer being on the work, as I trust that the work at Strivigundum Anicut may after a few months not require a separate officer. But I regard it as essential that there should be an Officer or experienced Upper Subordinate on the spot to ensure good work, and I trust that this may be allowed. This work will be considered as attached to the Sermadevi Range, but it will be impossible for the Range Officer to superintend two lighthouses situated out of his range effectually, the area of his range being 1,971 square miles with numerous important irrigation and other works.

11. I would beg to state that I have applied to the Resident of Travancore for the land required for these lighthouses to be made over to me, forwarding him plans showing the sites finally decided on by Mr. Dalrymple. I have not yet received any reply. I have also requested permission to commence quarrying at Muttum, and will, as soon as this is accorded and I learn that the designs are approved, commence the collection of materials from the sum of Rupees 20,000 granted for the lighthouses this year.

No. 178A. From J. D. GRANT, Esq., Assistant Engineer in charge of District Engineer's Office, Tinnevely, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Palamcottah, 11th June 1873, No. 40.

With reference to paragraph 11 of this Office letter No. 35, dated 31st ultimo, forwarding estimates for lighthouses at Muttum and Cape Comorin, I have the honour to forward a copy of a letter addressed by the Dewan of Travancore to the British Resident, in which, after agreeing to allow the ruined fortifications to be made use of for the building of the lighthouse at Cape Comorin, it is stipulated that in the event of the lighthouse at any time being abandoned, His Highness' Government will be at liberty to appropriate the stones without being liable to any claim for compensation.

2. As it is not for me to conclude such an agreement, I have the honour to request orders on the subject.

From A. SASHIA SASTRI, Dewan of Travancore, to G. A. BALLARD, Esq., British Resident of Travancore, dated Huzzur Cutcherry, Trevandrum, 3rd June 1873, No. 2,172, (P. W. 571.)

I HAVE the honour to acknowledge your letter noted in the margin, and to inform you that from inquiries I have made I find there is no objection so far as pagodas, etc., are concerned, to the site (A) indicated in the sketch forwarded

with the Tinnevely District Engineer's letter to your No. 430, dated the 31st March last, being appropriated for the lighthouse proposed to be erected by the British Government at Cape Comorin.

2. I understand that the late Resident, Mr. Newill, objected to the building being erected within the premises of the Residency, but as this was chiefly on the ground that the location of the subsidiary buildings in the same compound would be inconvenient to the occupants of the Residency, and as I now observe from the correspondence that the light-keeper's house, etc., are

*Proceedings of the Madras Government, Public Works Department,
11th July 1873.*

to be built out of sight of the Residency, the objection may perhaps be waived on the part of this Government, especially as you are disposed to allow the arrangement, so far as you are personally concerned.

3. On the ground required being marked off, and so soon as I receive a map of the same, I will take steps to execute the necessary document setting forth the nature of the grant.

A nominal quit-rent will be charged merely to keep alive His Highness the Maharajah's sovereign rights in the soil.

4. The District Engineer may proceed to cart the stones from the embankment and the minor ruined forts along the line. The stones are granted on the understanding that should the British Government at any time abandon the lighthouse, His Highness' Government will be at liberty to appropriate the stones without being liable to any claim for compensation.

5. I send, herewith, a Malayalam list of the stones available from the ruined forts, received from the Deputy Peishcar.

6. The District Engineer may apply to this officer for any aid he requires which will be cheerfully rendered.

7. I would much desire to save the Vattaicottai fort, which is in an excellent state of preservation, and I am glad to observe that the District Engineer himself does not anticipate the necessity of having to remove stones from this fortification.

8. The stones already wedged out and lying among the rocks at Muttum may be similarly appropriated, and the British officers have full permission to quarry for more stone.

9. In regard to the land at this site, I will do myself the honour of addressing you again in a short time.

10. The original enclosures of your letters are herewith returned with the exception of the plan of the land at Muttum, which will be sent on when I write again.

No. 179. ORDER THEREON, 11th July 1873, No. 1,784.

CIVIL WORKS, No. 12A.

His Excellency the Governor in Council sanctions the plans of lighthouses and on-offices to be built at Cape Comorin and opposite the Crocodile Rock at Muttum, at a cost of Rupees 31,200 and Rupees 32,200 respectively; and will be prepared to supplement the sum of Rupees 20,000 already allotted for the works to such extent as the District Engineer, Tinnevely, may report to be desirable in the current year. His arrangements for supervision of the works are approved; and no objection will be raised to the terms on which stone from the ruined forts at Cape Comorin is proposed to be given by His Highness the Maharajah of Travancore.

2. The subject of paragraph 9 of the District Engineer's letter will be attended to by the Marine Department.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,

Secretary to Government.

To the District Engineer, Tinnevely.
" Inspecting Engineer for Ports and Communications.
" Controller of Public Works Accounts.
" Marine Department.
" Accountant General.
" Financial Department.

Exd. S. T. Austin.

Spare Copies.

N^o 4140.

*Madras
Marine Office
24th June 1873.*

*To
The District Engineer
Tinnevely.*

Sir, I have the honour, with reference to G. O. Marine, N^o. 72, dated 10 January 1873, to request you will expedite the plans and specifications of the columns about to be erected on Cape Comorin and Cudjapattam Point, for the exhibition of the first class revolving and fixed lights therein sanctioned, as these documents are essentially necessary to enable me to submit to Government the indent for the description of lanterns required, for eventual transmission to the Secretary of State for India.

*I have ^{seen}
Signed H. D. C. Dalrymple
Master Attendant
Administrative Dept*

No 35

District Engineer's Office, Simielly
Palamcottah, 31st May 1873.

From

J. W. Randall Esquire

District Engineer, Simielly

To

Colonel G. W. Walker R. E.

Chief Engineer & Secretary to Govt
P. W. D.

Sir,

I have the honor with reference to
G.O. No 2182 & 72 dated 22nd October 1872
and 10th January 1873 respectively to forward
herewith Plans Specifications and Estimates
for the Light Houses and Subsidiary Build-
ings at Muttam and Cape Comorin.

My object has been in designing these
Buildings to make them as substantial as
possible, for situated as they are at a distance
from British Territory and Officers, any
repairs would entail considerable trouble
in supervision. The Specification will show
that only first class work is intended.

The base of the Column is designed to
afford space for the oil and other stores &
shelter for the Lascars while cleaning the Light
and

Enclosures 9.

1. Plan of Cape Comorin
Light House.

1. ^{do} of Muttam ^{do}.

1. Plan of European
Light Reservoir ^{do}
^{do}.

1. Plan of Stables ^{do}.

1. Site Plan

5 Sent by Rangoon.

1. Abstract Estimate of
Cape Comorin ^{do}.

1. ^{do} Muttam ^{do}.

1. Specification of
Light Houses.

1. ^{do} of Port House

⁴
9 Total.

and apparatus.

4. A hollow wheel has been provided for the Comorian Light House to admit of the ^{passage of} weights for working the revolving light; at Mouttum the wheel is solid.

5. With regard to the materials to be used, I have allowed for cut stone throughout the shaft. The brick to be obtained in the neighbourhood both of Comorian & Mouttum is not of good quality, hence I would not like to use it in the shaft.

6. As regards the rates I have allowed those which after our experience at Litchfield I believe to be only sufficient. At Comorian the Dewan has promised us stone from the old line of entrenchments running from Wattakottai Fort along the Travance Boundary, & from some small detached Forts along this line: the stone is principally wedged blocks and but few of them dressed at all. For our purposes we must consider them undressed, as we shall have to recut them entirely. These have to be carted about 14 miles, half of which distance is loose sand. The stone is granite and of very good quality.

7. At Mouttum the stone is breiss, and for

for our work will have to be wedged from the boulders lying on the fore shore of the cape, and carried up to the Light House site. The Boulders are in many cases split, and I think there will be considerable wastage as we may have to reject a good deal of what is wedged out.

8. In the Mouttum Light House a recess has been provided in the base of the column for the exhibition of a red light bearing on the brocodile rock. I consulted ^{Mr. Dalrymple} as to the size I have adopted, and he agreed that it would be suitable.

9. I suppose that the Light apparatus for these works has not yet been ordered for England, in this case if the drawings now sent are approved, it might be well to send home drawings of the upper part, in order that the makers may inform us early if the masonry need be altered in any way to suit the Light.

10. With regard to the Superintendence of these works, it will be possible as long as the present staff is in the District, to arrange for an Assistant Engineer being on the work, as I trust that the work at Struigundam Ancient

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a separate Officer. But I regard it as
essential that there should be an Officer
or experienced upper subordinate on the
spot to ensure good work, and I trust that
this may be allowed. This work will be
considered as attached to the Shermadiv
Range; but it will be impossible for the
Range Officer to superintend two
Light Houses situated out of his Range
effectually, the area of his Range being 1971
square miles with numerous important
irrigation and other works.

11. I would beg to state that I have
applied to the Resident of Travancore for
the land required for these Light Houses
to be made over to me, forwarding him
plans showing the sites finally decided on
by Mr. Dalrymple. I have not yet received
any reply. I have also requested permission
to commence quarrying at Muttam and
will, as soon as this is accorded and I learn
that the designs are approved, commence the
collection of materials from the sum of Rs.
20,000 granted for the Light Houses this year.

I have

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11
I have the honor to be
Sir.
Your Most Obedt. Servt.

H. W. Rendell
District Engineer.

N^o 2172
P. 2571

Thayyur Sutchary
Trevandrum 3rd June 1873

To
G. A. Ballard Esq^r
British Resident of Travancore
Voca. Voca. Voca.

Sir
I have the honor to acknowledge your letter noted in the margin and to inform you that from enquiries I have made I find there is no objection so far as Pagoda Voca are concerned, to the site (A) indicated in the sketch forwarded with the Tinnevely District Engineer's letter to your V^o 430 dated the 31st March last being appropriated for the light house proposed to be erected by the British Government at Cape Comorin.

I understood that the late President Mr. Keill objected to the building being erected within the premises of the Presidency, but as this was chiefly on the ground that the location of the subsidiary buildings in the same compound would be inconvenient to the occupants of the

Official dated 28th April 1873
N^o 202.

P. M. 1873 10th April
20th of 4th Divⁿ in P. M. 351.
The District Engineer
Tinnevely

cc
The Secretary to Govt
Tinnevely

Dated 31st

Rec^d 4th May 1873.

Encl^d 9.

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Presidency and as I now observe from
the correspondence that the light keepers
house &c are to be built out of sight
of the Presidency, the objections may per-
haps be waived on the part of the
Government, especially as you are dis-
posed to allow the arrangement, so far
as you are personally concerned.

On the ground required being
marked off, and so soon as I receive
a map of the same, I will take steps
to execute the necessary document set-
ting forth the nature of the grant.

A nominal quit rent will
be charged merely to keep alive His
Highness the Maharajah's sovereign
rights in the soil.

The District Engineer may
proceed to cart the stones from the
embankment and the minor ruined
forts along the line. The stones are granted
on the understanding that should the
British Government at any time
abandon the light house His High-
ness' Government will be at liberty
to appropriate the stones, without be-
ing liable to any claim for com-
pensation.

I send herewith a Malayalam
list

list of the stones available from the office
ruined forts, received from the De-
puty Pichay.

The District Engineer may
apply to this officer for any aid he
requires which will be cheerfully
rendered.

I would much desire to see
the Valluvtai fort, which is in an
excellent state of preservation and
am glad to observe that the District
Engineer himself does not anticipate for
the necessity of having to remove stones
from this fortification.

The stones already wedged out
and lying among the rocks at Muttum
may be similarly appropriated, and
the British officers have full per-
mission to quarry for more stones.

In regard to the land at
this site, I will do myself the honor
of addressing you again in a short
time.

The original enclosures
of your letters are herewith returned
with the exception of the plan of the
land at Muttum which will be
sent

sent on when I write again.

I have been
(signed) Anishin Sastr
Deewan

(True copy)

(signed) G. A. Ballard
President

(True copy)

J. D. Grant. Asst. Eng.
in charge District Eng. Office
Simla

Copy of Deewan's
letter to the President
of Deewanore.

G. A. Ballard

The Secretary to Govt.
of Deewanore.

Enclosed in a letter
from the Asst. Engineer
in charge of District
Eng. Office dated
11th June 1873. &c. &c.

No 40.

Simla District Eng. Office
Palanpottah 11th June 1873. P. 4

From,

J. D. Grant Esquire
Asst. Engineer in charge of
District Eng. Office Simla

To,

Colonel G. W. Walker R.E.
Secretary to Government
P. W. D.

Sir,

Encl: 1

With reference to para 11 of this
Office letter No 35 dated 31st Ultimo, for
warding Estimates for Light Houses at Multan
and Leaps. Comorin, I have the honor to for-
ward a copy of a letter addressed by the
Deewan of Deewanore to the British
President, in which after agreeing to allow
the ruined fortifications to be made use of
for the building of the Light house at Leaps
Comorin, it is stipulated that in the
event of the Light House at any time
being abandoned His Highness Govt.
will have liberty to appropriate the
stones without being liable to any claim
for Compensation.

2. As it is not for me to conclude
such an agreement, I have the honor
to request orders on the subject.

1784

~~Recd~~

Pres. of the Madras Govt.

Recd. the Engr

From the Asst. Engr. Siveerelly (H.E. No 358/31 May/73)

Asst. Engr. in charge of
Siveerelly Asst. Engr's
Office

400/11 June/73

His Excellency the
Governor in Council
sanctions the plans of
Light houses and out
office to be built at
Cape Comorin and op-
posite the Crocodile Rock
at Muttam, at a cost
of Rs 31,200 and Rs 32,200
respectively; and will
be

Engr. Madras 1873 No 358/31

From 11/6/73 28-34-85

Asst. Engr. (Engineer)

Engr. Siveerelly

Asst. Secretary to

Government

28.8.73

Dated 11/6/73 June 1873

Rs 40
Rupee 1

Request to order of

Government in order

from the Asst. Engr.

guarding the conditions

of giving license for the

Light House at Muttam

Engr. Madras 1873 No 358/31

11/11/73
13/11/74 - 11/11/77
be prepared to supplement
the sum of Rs 20,000 al-
ready allotted for the
works to such extent
as the District Engineer
Tinnevely may report
to be desirable in the
current year. His ar-
rangements for super-
vision of the works are
approved; and no objec-
tion will be raised to the
terms on which
stone from the ruined
forts at Cape Comorin
is proposed to be given
by

93
by His Highness the
Maharajah of Tra-
-vancore -

The subject of para
9 of the District En-
gineer's letter will be
attended to by the
Marine Department -
G.M.W.

96
D.R. Tennent
Asst. Engineer
Marine Department
Accepted
J. Collins
18/7/73
19-7-73
The design sent 18/7/73
to all
18/7/73

Encl 8

11 July 1873. No. 1784.

Nos. 1787/179

Mass at Hope

and and opposite
portable Rock in the
ancient Country.

...orders on letter
...the ... Eng ...
...submitting
...retunates for
...aces.

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178-79