

Proceedings of the Madras Government, Public Works Department,
2nd November 1875.

Read the following papers —

No 34. From Major J BEATTY, RE, Acting Superintending Engineer, Godavery District, to Major-General G W. WALKER, RE, Secretary to Government, Public Works Department, dated Dowlashweram, 18th September 1875, No 1,870

In his report printed with G O, No 1,271, of 5th May 1875, the Master Attendant of Madras recommended that a suitable staging or building be erected on a site to be chosen on the shore opposite or a little to the northward of the present anchorage off Cocanada, and Government were pleased to direct me to submit a plan and estimate for the necessary structure. I have now the honor to submit plans and estimates for three buildings of the kind required

- 3 Estimates
- 3 Plans
- 2 Specifications
- 1 Sheet of Data
- 1 Range Officer's Report

2 The height proposed for the tower or staging has been approved by the Master Attendant of Madras, who also personally inspected and selected the spot where it is to be built, on his recent visit to Cocanada

3 As the site of the proposed new lighthouse is within ten miles of the headquarters of No 5 Range at Samulcottah, I requested the present Range Officer, Mr Assistant Engineer Larminie, to estimate for the kind of structure which, after consulting the Master Attendant at Cocanada, appeared to me to be most suitable, viz, a light iron staging on a masonry basement

4. Estimate No 1 therefore provides for this, and the rates are such that the ironwork can be obtained from the Napier Foundry, if for any reason the Dowlashweram Workshop was unable to undertake the work. The Master Attendant of Madras would doubtless have preferred this plan, but, finding that masonry or brickwork would be less expensive, at his suggestion I have also estimated for a brick tower

5. Estimate No 2 shows the probable cost of a tower to be constructed of brickwork. As there is no good soil for brick making obtainable any where near Vakalapudi, I have provided in the estimate a rate sufficient to cover the cost of getting bricks from Madavapatnam about five miles off, the nearest place where it is known that fair soil for brick making can be had. I propose to use only the best bricks specially selected for this work and thoroughly burnt. Allowance has also been made for the great waste in carting such a distance over the open country. Some deduction may be made from this estimate if the old lighthouse is first pulled down and the foundations and basement built with the stone obtained from it

6 Estimate No 3 is for a tower of cut stone similar to the one now in use at Cocanada, and of the same dimensions as the brick tower abovementioned. This estimate provides for utilizing whatever good stone may be obtained by demolishing the Cocanada lighthouse. I have made a deduction in this estimate for the value of old stone to be so obtained, but this is a mere guess. It is possible that the stone may be so broken up in the course of demolition that it would only be fit for use in the foundations and basement of the new building. The Cocanada lighthouse is supposed to have cost about 30,000 Rupees, but I have not been able to ascertain the correct amount from the records

7. I consider the light iron staging specially suitable, because in a few years it may be found necessary to move the 4th-class dioptric light from Vakalapudi further

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up the coast Within the last thirty years the anchorage has shifted some miles to the northward, and if this movement continue the lighthouse must ere long again be found to be in the wrong position.

8 The estimate for a brick lighthouse comes to Rupees 6,600, the cost of a cut stone building would be Rupees 9,900, and the light iron staging with a masonry basement is estimated at Rupees 12,950

No 594

REFERRED to the Master Attendant, Administrative Department, for report
OOTACAMUND,
30th September 1875. (Signed) G W WALKER, Major-General, R E,
Secretary to Government, P W D

No 34-A. From Captain J H TAYLOR, R N R, Acting Master Attendant, Administrative Department, to Major-General G W WALKER, R E, Secretary to Government, Public Works Department, dated Madras, 19th October 1875, No 6,600

I HAVE the honor to return the papers marginally noted, received with your Letter from Acting Superintending Engineer, Godavery District, to Chief Engineer and Secretary to Government, Public Works Department, No 1,870, dated 18th September 1875

endorsement, No 594, of date 30th September 1875, and to recommend the adoption of the plan and estimate for the brick light column, at a cost of 6,600 Rupees, to exhibit a revolving light of the 4th order dioptric The present stone tower at the mouth of the Cocanada river should be demolished, and the materials either used for the foundation and basement of the new column at Vakalapudi or sold and credited to the General Port Fund

No 35 ORDER THEREON, 2nd November 1875, No 3,103.

CIVIL WORKS, No. 3

HIS EXCELLENCY the Governor in Council concurs with the Master Attendant of Madras in considering that a brick tower will answer the purpose of a lighthouse at Vakalapudi He accordingly sanctions the plan and estimate of Rupees 6,600, subject to reduction on account of stones of the old column used in its foundation and basement which will be reported Major Beatty deserves much credit for the pains that he has taken to work out the alternative plans of lighthouses submitted by him The work will be entered in the Provincial Budget of 1876-77 to be carried out with Port Funds with an allotment of Rs 6,000.

(True Extract)

(Signed) G W WALKER, Major-General, R E,
Secretary to Government.

To the Marine Department
" Master Attendant
" Superintending Engineer, Godavery
" Controller of Public Works Accounts

Exd W J Lewis.

Spare Copies

No 211: N V Range Office
Sannicattab 14th Sep 1875
From,
The Officer in Charge
N V Range Godavery District
The Superintending Engineer
Godavery District
Sir,
With reference to your letter No 325 of 26th
April 1875 to the Officer in Charge N V Range
Godavery District I have the honor to submit
herewith Plans and an Estimate for a staging
formed of cast Iron pillars to be erected about
a mile to the North East of the Village of Va-
kilpoody and about 5 miles north of Cocanada
The soil at the site selected by the Master
Attendant is of firm sand, to a depth of at
least of 12 feet and is thickly planted with
palmyra trees of full growth. I propose
carrying the foundations of the Masonry pier
down to a depth of 6 feet which is con-
sidered ample. The rates I have estimated
the Masonry at, are pretty much the same as
they

they would be in Cocanada the carriage round
by sea and the unloading and carriage to a
quarter mile from the Beach.

The rates for Iron work are those of the Dow-
laishweram workshop; as from the enclosed
copy of a letter received from the Napier
Foundry Madras, you will perceive that their
rates + freight, shipping, loading, unloading and
Insurance charges would actually amount to
as much or more. ... If the Iron work be
made up at Dowlaishweram it can be conveyed
by boat straight to the site of work without
any transhipment. I may remark that
were the Iron work got out from England,
the cost per ton would only amount to about
one half of what it costs in this country
and at the same time the scantlings of the
cast Iron work might be much reduced
for the the dimensions, thickness and diameter
of pillars I have adopted, are considerably
in excess of those required to carry the light
apparatus, still, with a view to the inferior
workmanship which must be expected in
castings

castings made in this country, they are,
I think, the minimum which should be
used. If for any reason the Dowlaish-
weram Workshops, could not undertake the
work, their rates and centage, which I have
allowed in the estimate, would about come
the cost, if the Iron work be undertaken by
the Napier Foundry.

I have &c &c &c
/ signed / J. C. Larmine
Assistant Engineer N V Rangey &c

Napier Foundry Company Limited
Madras 28th August 1875
J. C. Larmine Esq
Assistant Engineer
Sammalpetta

Dear Sir,

Replying to your letter of the 21st instant
we could supply the castings you require for
the Right Staging at Cocanada, as we have
already

7
already informed Captain J. H. Taylor at
the rate of Rupees 150 per ton delivered at
the Napier Foundry. The freight by steamer
to Coanada would be at the rate of Rs 25
per ton, but whether weight or Measurement
tons we cannot in the absence of drawings
say, though we would make the best arrange-
ment we could shipping, landing and In-
surance, charges would also be something
extra.

We could not give you an exact quo-
tation for the rate at which we could supply
the wroughten iron work until we have been
furnished with tracings of the different parts.
The probable rate would be from 350 to 450
Rupees per ton.

It will be necessary to send us tracings
of all the Cast Iron work also, if it is de-
cided to give us the order.

Yours Very Truly

J. & A. Arbuthnot & Co.

/ True Copy / Secretaries & Treasurers
/ True Copy / J. C. Carmichael Esq
in charge of the Range

L. Beatty Major R.E.

No. 1870. Supt. Engineer's Office, Godavery
Dowlaisluveram 18 September 1875

From,

Major J Beatty R.E.
Asst. Supt. Engineer Godavery Dist.

To,

Major General G. W. Walker R.E.
Chief Engineer & Secretary to Government
D.P.W.

Sir,

In his report printed with G. O. No. 1271
of 5th May 1875, the Master Attendant of Madras
recommended that a suitable staging or build-
ing be erected on a site to be chosen on the shore
opposite, or a little to the northward of the pre-
sent anchorage off Cocanada, and Government
were pleased to direct ^{me} to submit a plan and
estimate for the necessary structure. I have
now the honor to submit plans and estimates
for three buildings of the kind required.

2. The height proposed for the tower or
staging has been approved by the Master
Attendant of Madras, who also personally

inspected

No. 1

Estimate,
Specification and
Report on a light
iron staging to be
erected at Valhalu.

G. O. No. 1271/75 No. 3103

= Indiv. five miles north

of Cocanada and

four miles south of

C. of Indragiri -

Amount to Rs. 12,950

Rs. 6,664

6

inspected and selected the spot where it is to be built, on his recent visit to Cocanada -

3 As the site of the proposed new light house is within ten miles of the head quarters of No. 5 Range at Samulcottah, I requested the present Range Officer Mr. Assistant Engineer Lammie to estimate for the kind of structure which, after consulting the Master Attendant at Cocanada, appeared to me to be most suitable, viz, a light iron staging on a masonry basement.

4 Estimate No. 1 therefore provides for this; and the rates are such that the ironwork can be obtained from the Napier Foundry, if for any reason the Dowlaishweram Workshop was unable to undertake the work. The Master Attendant of Elladras would doubtless have preferred this plan; but, finding that masonry or brickwork would be less expensive, at his suggestion I have also estimated for a brick tower.

5. Estimate No. 2 shows the probable cost of a tower to be constructed of brickwork. As there

there is no good soil for brick making obtainable any where near Takalapudi, I have provided in the estimate a rate sufficient to cover the cost of getting bricks from Mladava-patnam about 5 miles off, the nearest place where it is known that fair soil for brick making can be had. I propose to use only the best bricks, specially selected for this work and thoroughly burnt. Allowance has also been made for the great waste in carting such a distance over the open country. Some deduction may be made from this estimate if the old light-house is first pulled down and the foundations and basement built with the stone obtained from it.

6 Estimate No. 3 is for a tower of cut stone similar to the one now in use at Cocanada, and of the same dimensions as the brick tower above mentioned. This estimate provides for utilising whatever good stone may be obtained by demolishing the Cocanada Lighthouse. I have made a deduction in this estimate for the value of old stone to be so obtained but this is a mere guess. It is possible that the stone

may

may be so broken up in the course of demolition that it would only be fit for use in the foundations and basement of the new building. The Cocanada Lighthouse is supposed to have cost about 30,000 Rupees, but I have not been able to ascertain the correct amount from the records.

I consider the light iron staging especially suitable because in a few years it may be found necessary to move the fourth class dioptric light from Tahalapudi further up the coast. Within the last thirty years the anchorage has shifted some miles to the northward and if this movement continues the lighthouse must ere long again be found to be in the wrong position.

The estimate for a brick lighthouse comes to Rupees 6,600; the cost of a stone building would be Rupees 9,900; and the light iron staging with a masonry basement is estimated at Rupees 12,950

J.

I have the honor to
Sir, B-

Your Most obedient Servant
J. Beatty, Major
Rt. Supr Engineer Godavari

Administrative Department

Nº 6600

152

From

The Acting Master Attendant
Administrative Department
Machias

To

The Secretary to Government
Public Works Department
Fort Saint George

Sir

I have the honor to return

the papers marginally noted, received
Letter from the Superintendent
Engineer Esplanade District
to Chief Engineer and Secretary
to Government D. P. N.º 1846
dated 18th September 1875.

- 3 estimates
- 3 plans
- 2 specifications
- 1 sheet of data
- 1 ranges officers report

with your endorsement
Nº 594, of date 30th September
1875, and to recommend
the adoption of the
plan and estimate for

the Brick light Column, at a cost
of 6600 Rupees, to exhibit a revolving
light of the 4th Order Dioptric. The
present stone tower at the mouth
of the Cocanada river should be
demolished, and the materials
either used for the foundation and
basement of the new Column at

485-Long 109-110

Ch 594

Forward to the
Master Attendant as
initiative left for
report

From
Nº 6164

The Chief Engineer
Esplanade

To
The Secretary to Govt

D. P. N.

Dated 18th Sept 1875

Recd 25th Sept 1875

Ch 594

Enclosure for
submitting three
estimates for light
houses of different
kinds at Nicholapudi;
five miles north of
Cocanada river in
the District of
Machias

90-2 Number 75 N.º 3103

Vakalapudi, or sold and credited
to the General Post Fund

I have the honor to be

Madras
Marine Office
19th October 1875

Sir

Your most Obedt Servant

J. W. Taylor
Acting Master Attendant
Administrative Department

AP

No 3103

Public Works Department

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 2 Nov 75
Read the following -

The Dy. Supdt. Engrs. H. No 1870 of 18th Sept 1875.
The Dy. Master
Attendant
Madras
In letter of 19th Oct 1875.

This is to certify
the Governor, in Council
has approved with the Dy.
Attendant of Madras
in considering that a
Pipish Lamp will
illuminate the purpose
of a Light House at
Va Kalapudi. He is
ordinarily sanctions
the Plan & estimate
of Rs 600. Subject to
reduction on account
of the old
columns used in its
foundation these
ment which will

G.O. 5th May 1875 - no

D. No. 1875 20th Oct.

From No. 6888

The Dy. Master Attendant

Recommendation Report

20

The Dy. Master Attendant

Public Works Dept.

For the Dy. Master

Dated 19th Oct 1875

2-6-1875 No 6888

Enclosure 12 - Govt. No 174

Recommendation Report

of the plan and estimate

for the Light House

at a cost of Rs 600--

to submit a memorandum

to the Dy. Master

attendant at Coimbatore

G.O. 2 Nov 75
No 3103

36A

The work will be
continued in the Pro-
vincial Budget of
1896-77 to be carried
out with Port fund
with an allotment
of Rs 6000.

Carroll

34/5

The Marine Dept
- Master Attendant, ⁵⁵ E. Ave.
- S. Eng. Spooner ^{W. H. Spooner}
- Factor with the H. B.

6.

epd-15-11-75

12 *Att* *Pier* 29-10-75
Cin 27-10-75 *P* 29-10-75

11/2 Recd 29-10-75
 21/10/75 Lin 27-10-75 R 29-10-75