

(1) பக்கங்களின் எண்ணிக்கை 12

(2) புதுக்கித் திருப்பிய நாள் 2 92

(3) ஆதாரம் குறிப்புவர் எருக்கோப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P. W. D.

துறை

அரசாணை எண். 3173
மு. கோப்புத் தாள் எண்.

அச்சகம்
பலவகை

நாள் : 7.12.1883

199.

மடிக்கவோ கண்டபடி கையாளவோ கூடாது.

M. Y.

ஆவண. கா. 1-18,006-69-90.

N^o 2906

Executive Engineer's Office,
West Coast Division.

Camp Pookote 19th August 1893

From

J. B. Bell Esq.,
Executive Engineer,
West Coast Division.

To

The Superintending Engineer,
Fourth Circle,
Coimbatore.

Encls.

1 C Report.

Sir,
In returning herewith the Completion Report for the Police Assist^t Superintendents' Residency, Malaparam, received with your endorsement N^o 334 of 6th July 1893, I have the honor to furnish the explanation called for as regards excess both in quantity and cost of certain sub-heads of the estimated cost.

(1) The excess quantity of Janglewood work is due to it having been substituted for teak wood in some portion of the building and

and hence also the saving under the item of teakwood work.

(2) The higher rate at which concrete flooring was paid is the tender rate of the Contractor.

(3) The higher rate paid to bamboo chicks is owing to the estimated rate being totally insufficient, in fact a mistake, - for the description of chicks to be made up. This item was not included in the Contractor's tender but was in a Supplemental Estimate for Rs 720 and the Contractor asked to carry out the work, which he did, and on his furnishing details of the actual cost of the work to the Executive Engineer he was paid accordingly and the rate per square viz. Rs 22/- arrived at.

(4) As regards the excess payment of Rs 53-5-5 under sub head of "Excavating and filling" item 15 it would appear that Earthwork estimated for at lower rates had been carried out

out and paid for under this (higher) rate, probable height to be raised etc. was in execution actually found greater.

As regards the Chief Engineer's question as to who the responsible party is for the girders of the Skew Bridge No 494 & 497 indented on Messrs Richardson and Cruddas being found too short, will be reported separately.

I have &c.

Signed/ J. M. Bell.
Executive Engineer.

True Copy.

J. H. Munn
Superintending Engineer - Civil

W

No 3185.

Executive Engineer's Office,
West Coast Division.
Calicut 20th September 1893.

From

J. M. Bell Esq., ^{2/3/93}
Executive Engineer,
West Coast Division.

To

The Superintending Engineer,
Fourth Circle.

Sir,

Enclosures.
Extract from
notes on
Vayitri Gudalur
Road.

With reference to your Memo-
randum No ^{WC} 441 dated 28th August 1893,
and the ^{WC} reminder thereon, I have the
honor to forward herewith extract from
notes on Vayitri-Gudalur Road Im-
provements received from the Sub-
Divisional Officer, Cannanore, as
having been handed over to him by
the Assist^t Engineer Mr Allen when
being relieved of the Charge of the
Vayitri Sub Division, regarding the
girders on Bridges 494 & 497.

2.

References have been made
to

to Messrs Mitchell & Mackenzie,
Contractors and Messrs Richardson &
Craddas of Bombay on the subject
and on receipt of their reply, further
report will be submitted.

I have &c.

Signed/ J. M. Bell.
Executive Engineer.

(True Copy.)

W. M. Munn
Supt. Engineer, &c. &c.

M

Extract from notes on Vayitri Gudalur
Road Improvements handed over by
Assistant Engineer Mr Allen to the Sub-
Divisional Officer Cannanore Sub Division
when handing over charge of the
Vayitri Sub Division.

17. Bridge No 497. The girders
for this have come too short and so
we have sent for others. This bridge
was made from plans furnished by me.
I drew up the design from plans of
the abutments sent in by Mr Gorman &
similar plans as a test were sent in
by Pereyara on my calling for them.
It seems odd that both men should
have made a mistake and a similar
one. If you are called on for an
explanation for this you may point out
what sort of supervision and the
amount of it were sent to me.
Mr Mitchell has my plans but he
sent

that

sent them to Richardson & Cruddas who will not return them, so it is not very easy to make out where the error is. If you get the plans you will be able to see if there is any draftsman's error. The man was quite worthless (a man called Mutha Pillay) and as likely as not made a blunder.

Bridge No 94. The girders of this arrived but the bed plates are fixed on the wrong way. Mr Mitchell says he can take them off, and put them right.

Cannanore
Sept 9/93.

Signed/ T. B. Smith. Cndr.
Sub Engineer,

(True Extract)

Signed/ J. M. Bell.
Executive Engineer,

Do. 25/93

No. 1458

GOVERNMENT CENTRAL MUSEUM,

Pantheon Road, Egmore,

Madras, 21st December 1893.

From

Dr. H. WARTH,

OFFICIATING SUPERINTENDENT,

Government Central Museum,

Madras,

3183

To

The Secretary to Government
Revenue Department
Fort Saint George.

Sir

I have the honor to ask your permission to bring to notice the following fact with regard to the proposed utilization of magnetic iron ore for harbour works in the Madras Presidency (G. O. No 3289 W. Public Works dated 8th December 1891).

As the Engineer in charge of the Madras Harbour works anticipated that the iron ore would be rapidly attacked by the sea water I placed specimens of the proposed ore in sea water in such a way that

that the brine covered the specimens about
an inch. I did this on the 28th November 1891
so that two years have now elapsed. The

result is that two years have not sufficed
to make any impression on the two specimens
of magnetite ~~iron~~ on the one specimen of
magnetic iron sand. The pieces are as fresh
as other fragments of the same blocks which
are kept in air for comparison. The sea
water remained absolutely clear. There was
only one slight greenish brown spot of
about a square inch in one of the glasses.

This was examined and appeared to consist
of slimy vegetable matter rather than of
ferrie hydrate and was not enough to be
weighable on a chemical balance.

The specimens will continue
to be exhibited in the Museum and a
Cement block made with iron ore and
one

one made with ordinary stone have now
also been placed in sea water. 6/27

I trust that the above experiment
may be accepted as a proof that the magne-
tite of Southern India is a durable ma-
terial and bears exposure to sea water.

I have the honor to be
Sir
Your most obedient servant
W. North
Offg Superintendent
of the Central Museum

P. W. CORRECTION 10221

From

Dr. H. W. Warth

Hq Superintendent
Central
Museum

8.12.91.32894

No 1458

Dated 21st

Despatched 21st

Received 22nd

Recd: 1.12.93

H.M.

Enclosure

M.L.



2.C.8.11

Subject

Bringing to the notice of
Government that he has
found out by an experiment
that Magnetic iron sand
and magnetite when
dipped in the sea water bear
no impressions and therefore
that the magnetite of Southern
India is a durable
material and bears
exposure to sea water

P.T.O.

Endorsement H.P. 2/11/90
to 2350

Transferred to the

Public Works Department.

Receivable

under the to Govt.

24/11

Fort St. George
28th Nov. 1893

3173 W 47-12-9

Recorded.
Recorded

over
11/93

S.L.

INDEXED

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