

(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.

824 (VV)

Press

~~Mis.~~

Dated

10-3

1877.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
10th March 1877. No. 824.*

Read the following papers :—

No. 238. From Lieutenant-Colonel R. B. KENNEDY, District Engineer, Malabar, to the Secretary to Government, Public Works Department, dated Calicut, 26th January 1877, No. 205.

With reference to G.O., No. 3,168, dated 27th November last, sanctioning Rupees 715 for cutting out a Swimming Bath for the European Regiment at Cannanore, I have now the honor to forward a supplemental estimate* for flooring and plastering it with cement; and to state

* Rupees 1,160.

that Lieutenant Dobson, R.E., reports that, at the time the estimate for Rupees 715 was prepared, it was assumed that the rock was probably sound all through; but now that the bath has been sunk 5 feet, the rock proper has disappeared and soft stone of a clayey description has been met which is trodden into mud under the feet of the coolies.

2. It is now proposed that after the bath has been dug to the full depth, the sides and bottom where necessary should be floored with good sound laterite laid in cement and the whole bath and sluices be plastered with cement.

3. Rupees 50 have been allowed for baling water; this is very much required, as the water percolates through the soft rock and stands for about two or three hours daily and thus prevent the men from working in the bath.

No. 238-A. From the same Officer, dated Calicut, 24th February 1877, No. 232.

Reference Memorandum No. 110-T, dated 31st January 1877.

I HAVE just returned from Cannanore where, in company with Lieutenant Dobson, I carefully inspected the work referred to.

I find that after excavating about 5½ feet through hard laterite a softer description of the same stone was met with containing a considerable admixture of blue clay though still hard enough to require the use of the pickaxe in excavating. and that this admitted the passage into the excavation of water both through the sides and bottom; this water is slightly brackish, but, except when the tide is rising, does not come in any quantity. Of course the mere influx of the water would be of no consequence but for the tendency of the soft material to be stirred up into mud.

2. Your orders regarding stoppage of work were at once communicated to Lieutenant Dobson, but the excavation was all but completed before their arrival.

3. I am by no means of opinion that there is any likelihood of failure, and consider that a lining of good laterite for a short distance above the bottom of the lowest part to prevent any risk of the side tumbling in, and a bed of concrete of no considerable thickness will make the work complete; the laterite blocks can be provided out of the material excavated from the upper part of the bath.

4. I beg to forward certain papers † connected with the foregoing, and an original letter from His Grace the Governor, which I request may be returned. I also forward an alternative estimate‡ in substitution of the one which accompanied my letter No. 205 of 26th January, and

† Lieutenant Dobson's letter No. 31, dated 6th February 1877, and No. 43, dated 21st February 1877.

‡ Rupees 960.

solicit early decision, as Lieutenant Dobson will have to get the cement from Bombay if the work is to be completed.

No. 239. ORDER THEREON, 10th March 1877, No. 824.

MILITARY WORKS, No. 5.

HIS GRACE the Governor in Council is of opinion that the floor should be composed of laterite blocks fitted closely together without cement, two layers being used if requisite, which, while allowing the water to rise through it, would at the same time form a firm floor or the feet of bathers.

2. The sides of the excavation where soft material is met with should be lined with similar blocks of laterite laid in cement but unplastered. Should any single crack in the sides of the excavation through which water escapes to any serious extent be discovered there would be no difficulty in dealing with it hereafter.

3. The modification noted will probably reduce the estimate by upwards of Rupees 500. The District Engineer will therefore revise and re-submit the estimate now returned, meantime continuing the work in the manner directed.

(True Extract.)

Colonel,
Ag. Joint Secy. to Govt., P.W.D.,
Buildings and Roads Branch.

To the District Engineer, Malabar.
„ Examiner of Public Works Accounts.
„ Military Department.

Exd. E. C. Shunker.
Spare Copies

READ the following:

Letter from the District Engineer Malabar
Nos 205 & 232 of 26th Jan^y and 24th Feb^y 1877.

FOR ORDERS.

I think it very probable
that a thin concrete bed
will be lifted. I presume
of water under it. & the
cement-plastering & then
off the sides by the same
cause -

I would suggest a floor of
laterite blocks like large
brick joined closely together
which would allow water to
run through and keep the
soft material from being torn
up into mud by the feet -
and that the sides when
of that soft material be
underbuilt with hard laterite

The additional
estimate of Rs 1160 is then
recommended for sanction.

W. H. Colonel
Ag. Jt. Secy. to Govt. P.W.D.

Work. laid in cement
but not plastered -
if any single crack occurs
is forced through which water
escapes to a serious extent it
can be stopped hereafter -
This will reduce estimate by
over 500 Rupees -

FOR ORDERS.

in any way interfering with
the operation, even if it
should hereafter be found
necessary to do any part of
it.

B. 6/3

[Faint handwritten notes and signatures]

[Faint handwritten notes and signatures]

[Extensive handwritten notes and signatures, including '2154' and '8-37']

[Handwritten initials 'V']

N^o 305. Malabar Dist. Eng'g Office
Calicut 25th January 1877

From The District Engineer,
Malabar

To The Secretary to Government,
Public Works Department,
Madras.

Sir,
With reference to G. O. N^o 3168
dated 27th November last, sanctioning
P^o 715 for cutting out a swimming
Bath for the European Regiment at
Cannanore, I have now the honor
to forward a Supplemental Estimate
for flooring and Plastering with
Cement; the ~~work~~ and to state that
Lt. Debon R. E. reports that, at the
time the Estimate for P^o 715 was
prepared, it was assumed that the
rock was probably sound all through,
but now that the bath has been
sunk five feet, the rock proper
has disappeared, and soft stone of
a clayey description has been met
which is trodden into mud under
the feet of the Coolies.

2. It is now proposed that after
the

the bath, has been dug to the full depth, the sides and bottom, where necessary, should be floored with good sound laterite laid in cement, and the whole bath and sluices be plastered with cement.

3. Rs 50 have been allowed for baling water, this is very much required as the water percolates through the soft rock, and stands for about 2 or 3 hours daily, and thus prevent the men from working in the bath.

I have the honor to be
Sir

Your most obedt. servant

M. W. Venn. Lt. Col.
District Engineer
Malabar

P.W.D.
29 JAN 77
827

For Roads & Buildings

Malabar Distt. Engineer's Office
Calicut 24th February 1877.

N^o. 232.

From

The District Engineer

Malabar

To

The Chief Engineer,

Public Works Department,
Madras.

Sir,

Reference - Memorandum N^o. 110^d
dated 31st January 1877.

I have just returned from Cannanore where, in company with Lt. Dobson, I carefully inspected the work referred to.

I find that after excavating about 5½ feet through hard Laterite, a softer description of the same stone was met with containing a considerable admixture of blue clay, though still hard enough to require the use of the pickaxe in excavating, and that this admitted the passage into the excavation of water, both through the sides, and bottom; this water is slightly brackish, but except when the tide is rising, does not come in any quantity. Of course the mere influx of the water would be of no

N^o. 205.
Encl^{os} - P.W.D.
827 - 10 P.W.D.
Estimate for filling and
putting the masonry
with for the purpose
of the - 10 P.W.D.

Encl^{os} 26th January 1877.

The Secretary to Govt.
Madras.

The District Engineer
Malabar

No 110 J.

29th Jan^y. 1877.

Copy for the

21st Jan^y. 1877.

21st Jan^y. 1877.

21st Jan^y. 1877.

21st Jan^y. 1877.

21st Jan^y. 1877.

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21st Jan^y. 1877.

21st Jan^y. 1877.

21st Jan^y. 1877.

21st Jan^y. 1877.

N^o. 238

no consequence but for the tendency of the soft material to be stirred up into mud.

2. Your orders regarding stoppage of work were at once communicated to Lt. Dobson, but the excavation was all but completed before their arrival.

3. I am by no means of opinion that there is any likelihood of failure, and consider that a lining of good laterite for a short distance above the bottom of the lowest part to prevent any risk of the side tumbling in, and a bed of Concrete of no considerable thickness, will make the work complete; the laterite blocks can be provided out of the material excavated from the upper part of the Bath.

4. I beg to forward certain papers⁺ Lt. Dobson's letter connected with the foregoing, and an original letter from His Grace the Governor, which I request may be returned. I also forward an alternative estimate in substitution of the one which accompanied my letter No. 205 of 26th January, and solicit early decision as Lt. Dobson will have to get the Cement from

from Bombay if the work is to be completed.

I have the honor to be
Sir,
Your most obt. Servant

W. W. Kennedy Lt. Colonel
District Engineer, Malabar.

No 3168 of 27.11.76

P.W.D.

26FCB77

2052

Towards Colonnade - No 96.
for flooring see the same.
Laying built to complete
Remnant of basement
and also other papers
connected with it.

From
The District Engineer
Malabar
to
The District Engineer
Malabar
No 232
Dated 24 February 1977
Revised.

204-10-3-77

N 23800

Ca 28.2.77 18/3/77

No 824 Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 10th March 1977

Read the following :-

From
The District Engineer
Malabar } (H.E. No 205 of 26 Jan 1977)
do do } (H.E. No 232 of 24 Feb 1977)

His Grace the Governor
in Council is of
opinion that the floor
should be composed
of laterite blocks fitted
closely together without
cement two layers being
used if requisite which
while allowing the water
to rise through it would
at the same time form
a firm floor for the feet
of heathens.
The sides of the
excavation where soft
material

material is met with
should be lined with
similar blocks of laterite
laid in cement
but unplastered.
Should any single
crack in the sides of
the excavation through
which water escapes
to any serious extent
be discovered there
would be no difficulty
in dealing with it hereafter.

3. The modification noted
will probably reduce
the estimate by upwards
of Rs 600. The District
Engineers will therefore
revise and resubmit
the estimate now returned
meantime

6
meantime continuing the
work in the manner
directed.

W.H.
10.3.77

Enclosures 7
A. Lalaha in m/s
S. P. W. A.
Milya Dept
12.3.77
12.3.77
22.3.77

N. A. G.

Lead Sintered.

$\frac{10.3}{10.3}$

The sample
has been analyzed
and found to be
pure lead.

Small amount of
lead has been
found in the
sample for analysis.

$\frac{10.3}{10.3}$

[Signature]

10/3

To Mr. B. Calaneo

Recd. Encl.

G. O., 10th March 1877, No. 824

Nos. 238 - 239.

Swimming bath for the
European Regiment at
Cannanore, Malabar Dt

The District Engineer directed
to proceed in accordance with
Remarks the estimate for
flooring & plastering the
— and in the meantime
to continue the work in the
manner directed.

Handwritten signature: *Chas. J. [illegible]*