

(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.	2087	Press
B.P. No.		Mis.
Dated	31 - 7 - 195	6874

Not to be folded or roughly handled

113

*Proceedings of the Madras Government, Public Works Department,
31st July 1874.*

No. 725. Read the following letter from Captain H. M. VIBART, R.E., District Engineer, Bangalore, to Colonel G. W. WALKER, R.E., Chief Engineer, Public Works Department, dated Bangalore, 10th July 1874, No. 70 :—

I HAVE the honor to forward, for sanction, an estimate of Rupees 310 with plan and specification for constructing four tunnels on the side channel of the road near the Royal Artillery Barracks.

2. The estimate has been prepared at the requisition of the Officer Commanding the Division, and has met with the approval of His Excellency the Commander-in-Chief.

3. The cost of the work can be met from the allotment for Minor New Works of the current official year.

No. 726. ORDER THEREON, 31st July 1874, No. 2,087.

MILITARY WORKS, No. 19.

SANCTIONED.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the District Engineer, Bangalore.
" Officiating Controller of Public Works Accounts.
" Military Department.

Exd. E. C. Shunker.
Spare Copies

6. C. —————

Estimate of the probable cost for
Constructing Tunnels to be built on the side channel
of the road near the Royal Artillery Barracks at the
Race course. Vide Apts. & M. Genl. No. 1957/4 June 1874.

Particulars of work	Measurements			
	W.	L.	B.	Content Total
<u>Excavation</u>				
Tunnel	1	15 1/2	5 1/2	4 341
for parapets	4	2 1/2	1 1/2	1 1/8 16 7/8
Total cft. of Excavation				357 7/8

Stone in chunam

Foundation for side walls of Tunnel	2	15 1/2	2 1/2	93
Above	2	15	1 1/2	2 90
Parapet walls	2	5	1 1/2	2 1/4 33 3/4
	4	2 1/2	1 1/2	1 1/8 16 7/8
— Above —	4	2 1/2	1 1/2	1 1/8 16 7/8

Total cft. of Stone in chunam 250 1/2

Covering stone for tunnel each	12	5 (1 1/4 1/4)	12	12
Stone over parapets	12 ft.	2 11 1/4 (1 3/4 3)	22 1/2	22 1/2
Stone flooring to tunnels	8 ft.	1 15	3	45 45
Levelling course of concrete under the stone floor	1	15 1 1/2	6 11 1/4	11 1/4

<u>Pointing</u>				
Side walls of tunnel	2	15	2	60
				C. C.

The above is a list of the
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Specification to accompany
 Plan and Estimate for Construct-
 ing four tunnels proposed to be built
 on the side channel of the road near
 the Royal Artillery Barracks at
 Race Course.

Amount of Estimate Rupees 310-1-2
 The tunnels to be 15 feet
 long and 12 feet between parapet
 walls: the vents will be 2 feet square.
 The side walls of tunnels to be 18" thick
 and 2 feet high having their founda-
 tion 2 feet broad and 1 1/2 feet deep,
 built with stone in chunam. The
 floor of the tunnels to be of flat
 stones laid on a course of concrete
 6 inches thick and the tunnels are to
 be covered with slab stones (5' x 1 1/4' x 1/3')
 well dressed and fitted; over which a
 parapet wall of 1 1/2 feet thick and
 2 1/2 feet high to be built with stone
 in chunam on each side of the Cul-
 vert. And the road over the tunnels
 is to be formed with gravel of 6" thick
 well watered and rammed.

The

The joints of the masonry of
the tunnels to be scraped out and
pointed with strong lime putty.

All materials used and
work done is to be of the best description
and subject to the approval of the
District Engineer of Bangalore who
shall have the entire power of order-
ing the removal of any work with
which he is dissatisfied.

Herewith

Captain R.E.

District Engineer Bangalore

Distt Engrs Office

Bangalore

17th June 1874

District Engineer, Bangalore,

4.38.2014-70

From
The Dist Engr^s
Bangalore
To
The Chief Engineer
D. P. W.
Madras

Date of 20 June 1894.
Recd ⁴⁷³⁶ ~~Mr. 8754~~ / 74

2103
Estimate for
Constructing tunnels
proposed to be built
on the Side Channel
of the Eoad near the
Royal Artillery
Barracks at the
Race Course at
Bangalore.

Ammoniating to
PQ 310—
In No 5171 —

Ph. 731²⁵ July/74
Lu 18 N.º 725.

would be $R_n = 1 - 10^{-3\frac{1}{2}}$ -

Kelly & Co
 of New York
 Assistant Comdr General
 Howard to Genl Taylor.
 Ask how many will be recd
 9/7/72

Apply for them
Hunt

DISTRICT ENGINEER'S OFFICE
Bangalore 10 July 1874

No. 70

From

The District Engineer,
Bangalore.

To.

The Chief Engineer
Public Works Department.
Madras

SIR,

I have the honor to forward
for sanction, an estimate of Rs 310
with plan and specifications for
constructing four tunnels on the
Side Channel of the road near
the Royal P. Military Barracks.

The estimate has been prepared
at the requisition of the Officer
commanding the Division and
has met with the approval of
His Excellency the Commander in Chief.

The cost of the work can be
met from the allotment for Minor
New Works of the current off Year.

I have the honor to be

Sir
Yours most Obedt Servt.
Henry Robert Capt^l R.E.
District Engineer, Bangalore.

Commissariat Office Bangalore
From

The Ex. Comm^{rs} Office
Bangalore

To The District Engineer
Bangalore

Dated 8th July 1874

Your Memo No 149 of
3rd July 1874

Was the honor to state
that the only tubes
hitherto issued to Troops
in Barracks have
been half Casks the
cost of which at the
present Contract rate
of Rs 3-4-7 per cask
would

M. 4236/74
4/74

P.S. 73/74
In S. N. 725

Recd
10/7/74
M. 4236/74

% Hrn. d. Z. Bräuninger
in Zürich
d. Caput des Jrs 8/874.

Wm. Lloyd Garrison

125-726
 Dec 14/74
 Dec 15/74

D. W. 1874 Dec 15.
Chas. W. 1874 Dec 15.
L. W. 1874 Dec 15.
No. 4236

The Sick Room

2 Good advice

Dr Charles Jones

812 Madison

Salute Aug 1893

Dec 11 -

8.4.2

December

an estimate of 10/22

316 for Amelanchier for

Constitutional History

in the address

Wm. J. Dwyer

4236

PUBLIC WORKS.

To The Dist. Engr.
Bangalore

Dated

Dated

Licet.

Enc 4

G. O., 31st July, 1874. No 2087

Nos. 725-726.

Tunnels on the side chain:
in the road near the Royal
Artillery Barracks - Bangalore

Estimate of Rs. 510
for constructing four tun-
nels, sanctioned —

195726
Dec 14/1734. CD 9/1734
Okt 17 to Aug 11 1734

on the contrary, I should
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of the hills and
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