

(1) Number of pages 28(2) Date of repair 16.6.86(3) Initials of the Referencer lmp

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public works. DEPARTMENT

G.O. No.	361-W	Press.
B.P. No.		Mis.
Dated	22.1.1878	-197-

Not to be folded or roughly handled

22/1

361
1

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

22nd January 1878, No. 361 W.

Buildings and Roads.
Military Works.

Read the following paper:—

No. 199. From Colonel F. J. MOBERLY, R.E., District Engineer, Bangalore, to the Chief Engineer, Roads and Buildings, dated Bangalore, 7th January 1878, No. 196.

I HAVE the honor to forward, for the sanction of Government, estimates for the undermentioned works prepared on requisition from the local Military authorities and approved by His Excellency the Commander-in-Chief.

2. The first is for constructing a stone-drain to carry foul water away from the out-houses of the Hussar Barracks, which now lies in the natural drain, gradually falling into a tank, in the margin of which a well was sunk during the late drought. This well will certainly suffer if this refuse water is allowed to enter, and a very slight alteration of the outfall as originally designed will prevent any injury. The stone lining is necessary for the passage of the water to a distance.

3. The second estimate, amounting to Rupees 175, is for preventing a similar nuisance from the gram-boiling shed. This is a part of the general scheme of drainage stopped in G.O., No. 151, of 28th September 1876. The Medical Officer of the Regiment has pressed for this work as the water of drainage has proved injurious to the health of the soldiers living near.

4. I have, at the request of the Division General Commanding, begun these works.

5. The third estimate is for increasing the height of the gates of the gun-sheds of the Royal Horse Artillery and Royal Artillery which are now on a level with the spring of the arch. Robberies have been committed by persons apparently through the arched space.

6. The fourth estimate is for taking up the old concrete floor of the Serjeants' quarters, Garrison Hospital, and relaying it with stone. Of the estimated cost Rupees 205, Rupees 140 can be saved by using the stones taken up from the Commissariat godown, which is to be floored with large stone, as sanctioned in G.O., No. 1,932 W, of 4th December 1877.

No. 200.

ORDER THEREON, 22nd January 1878, No. 361 W.

The undermentioned estimates submitted by the District Engineer, Bangalore, are sanctioned:—

	Rs.	Register No.
1. Laying stone-drain from tunnel near the old grand-stand to tunnel at corner of Victoria Road ...	500	100
2. Laying stone-drain from Cavalry gram-boiling shed to tunnel in the Agram Barracks ...	175	101
3. Increasing the height of the gates to the crown of the arches of gun-sheds of Royal Horse Artillery and Royal Artillery ...	495	102
4. Removing old chunam floor and reflooring with stone slabs of Garrison Hospital at Bangalore... ..	205	103

B of 1877-78.

2. It is presumed that the District Engineer will provide funds for these works from the allotment at his disposal under Minor New Works.

3. This sanction has been registered as Imperial and numbered as shown above.

(True Extract.)

Colonel, R.L.,
Secretary to Government, P.W.D.

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

Exd. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS
MILITARY WORKS.
★
Est. of (1878) 24dms.
PUBLIC WORKS:

TO THE ENGINEER
BANGALORE
Sd/- J. S. S. S.

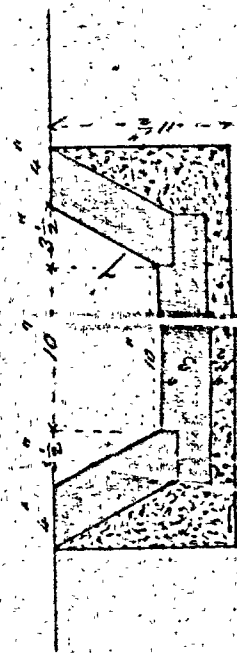
JANUARY.
No. 100-200.

Specifications to accompany the
Estimate for Laying stone drain from
Lunel near the Old Grand Stand to
Lunel at Corner of Victoria Road at
Bangalore

Amount of Estimate Rs 500--

A stone drain 14" broad at top 10" at
bottom and 7" deep to be constructed along
the road trench into the Lunel near Victoria
road for carrying off the refuse water
from the Cookroove &c

The stones for flooring to be of as
great length as possible, twice the
thickness than 3, the sides of the drain
will be laid to a slope of 1 to 2, the lower
edge of the side stones to be cut neatly to
the angle required so as to suit the grommet
in the flooring of stone stones.
The sides and bottom of drain will
be well packed in
in the margin.



The joints of the drain after being
thoroughly raked out will be pointed with
Portland Cement (Consisting of 1 part of
Cement

BUILDINGS AND ROADS
MILITARY WORKS
★
Govt. of (1878) Madras.
PUBLIC WORKS:

TO THE ENGINEER,
BANGALORE.
Sd/- Sd/- Sd/-

For the purpose of

to be

to be

to be

to be

JANUARY.

Nos. 100-200.

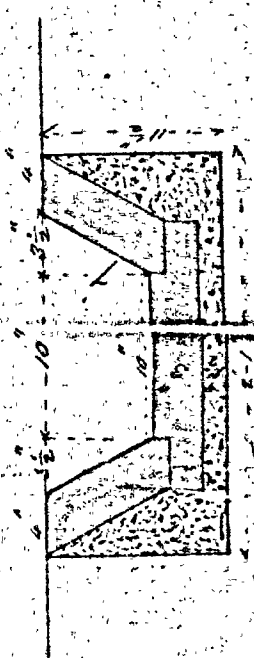
to be

Specifications to accompany the
Estimate for Laying stone drain from
Tunnel near the Old Grand Stand to
Tunnel at Corner of Victoria Road at
Bangalore

Amount of Estimate Rs 500--

A stone drain 17" broad at top 10" at
bottom and 7" deep to be constructed along
the road trench into the Tunnel near Victoria
road for carrying off the refuse water
from the Cookroove &c

The stones for flooring to be of as
great length as possible, none to be of less
thickness than 3", the sides of the drain
will be laid to a slope of 1 to 2, the lower
edge of the side stones to be cut neatly to
the angle required so as to cut the ground
cut in the flooring & bottom stones.
The sides and bottom of the drain will
be well packed in
in the margin.



The joints of the drain after being
thoroughly raked out will be pointed with
Portland Cement (Consisting of 1 part of
Cement

Specification to accompany Estimate
for laying stone drain from Cavalry Mess
boiling shed to Tunnel in the Mysore Barracks
at Bangalore.

Amongst Estimate Papers 175-6-7

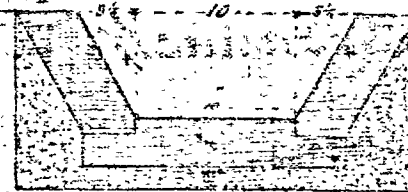
A stone drain 7" broad at top 10" at bottom and 7" deep to be constructed from green bailing shed to Lunnel for carrying off the green water.

The stones for flooring to be of as great length as possible, none to be of less thickness than 3, the sides of the drain will be laid to a slope of 1 to 2, the lower edge of the side stones to be cut neatly to the angle required so as to suit the groove cut in the flooring or bottom stones.

The sides and bottom of the drain will be well packed in concrete as per sketch in the margin.

The joints of the drain after being thoroughly raked out will be painted with Portland cement (consisting of 1 part of cement to 2 of siver) which will be kept wet for at least two days after it has been finished.

Publick from drains will be removed immediately after the drain has been laid.



49
J. M. Crosby. Colonel
District Engineer

Scott, Eugene's Office

Bangalore

8th December 1877.

Sclavich Kunz

From
The District Engineer
Bangalore

To
The Chief Engineer
D. P. W.
Roads & Buildings Branch
Madras

Dated 7th January 1878

Received

Estimate & Specification
for laying stone chain
from Cavalry frame building
shed to Tunnel in the
Agrawal Baracks at
Bangalore

Amounting to Rs 175

Head of Service _____ Imperial
Fund _____ Ordinary
Class _____ Original work
Main Head _____ Military
Sub Head _____ Military Buildings
Section _____ European Artillery
To be Carried out by the D. P. W.
Detail Estimate No. of 1877/78
District Bangalore

Name of work — Increasing the height of the gates to the
Crown of the arches of Gun sheds of R. H. A and Royal Artillery at
Bangalore Vide Memo D. P. W. Mysore Division Nos 464 & 522
of 12th & 5th October & November 1877

Particulars of Work	Measurement			Contents	Total
	No.	L	B		
For Royal Artillery Gun sheds — Cutting out rails and making holes on top frame of the gate					
Wood work					
Top frame	1	10	3	4	10
Side frame	2	3 1/2	3	2	5
Rails	18	1 1/2	1 1/4	1 1/2	3.6
Total Cft of Teak wood wrought and put up					16.6
Wrought Iron					
Clamps 1 1/2 ft. long 1 1/2 wide & 1/2 thick	4	1.56			6.24
Do for Centre 1 1/2 ft. long 1 1/2 x 1/2	4	1.87			7.48
Bolts 1/2" or 5" long with head & nut	14	0.23			3.22
Total lbs of wrought iron					16.94
Painting with two coats of chocolate Color					
Pair of Battens door (without frame) with strong Iron rings bolts padlock and other fitting, and painting complete	2	6	10 1/4	2	2
For R. H. A Gun sheds — Cutting out rail and making holes on top of frames	20			20	20

inside Measurement) with strong hinges -
bolts padlocks and other fittings complete
are to be provided and fixed to the porches
of the Guise shed. -

District Engineer's Office

Bangalore

14th December 1877

Lallaichann

J. H. Moberly
District Engineer

Colonel R.E.

361
8

To
The Chief Engineer
D. P. W.
Roads & Buildings Branch
Madras—

Dated 7th January 1878

John

Received:-

Plan, Estimate & Specification for increasing the height of the gates to the Crown of the Arches of Gun shed of R. H. A and Royal Artillery at Bangalore

Amounting to Rs 495--

Head of Service _____ Imperial
 Fund _____ Ordinary
 Class _____ Original Work
 Main Head _____ Military
 Sub Head } _____ Miscellaneous Military
 Section }

To be Carried out by the D. O. W.

Detail Estimate No. 1877/78

District Bangalore

District Bangalore
Name of Work — Removing old Chumam flood and refloor-
ing with stone slabs of Garrison Hospital & Surgeons
Quarters at Bangalore Vide Assistant Quarter-
Master General's Mysore Division No 457 Dated 8th
October 1877-

Particulars of Work	No.	Measurement			Contents	Total
		L	B	D		
Flooring						
Hall and side room	4	18	12	"	864	
Veranda outside	1	37 $\frac{1}{2}$	6 $\frac{1}{2}$	"	245 $\frac{3}{8}$	
Doorway	11	4 $\frac{1}{4}$	1 $\frac{1}{2}$	"	50 $\frac{3}{16}$	
North Veranda room	1	8	6 $\frac{1}{2}$	"	52	
Arch way	1	4 $\frac{1}{2}$	1 $\frac{1}{2}$	"	6 $\frac{3}{4}$	
					<u>1218$\frac{3}{16}$</u>	
Deduction						
Washing places	2	7	3 $\frac{3}{4}$	"	52 $\frac{1}{2}$	
Wall	2	1	1 $\frac{1}{2}$	"	<u>3</u>	
Total Deduction					55$\frac{1}{2}$	

Total sq. of removing old Cheumam floor and re-laying with stone flags and painted with asphaltum } 11.63

Leif Knutson

13/12/77-

Specifications to accompany Estimate
for removing old chunam floor and re-
flooring with stone slabs of Garrison
Hospital Sergeant Quarters at Bangalore
Amount of Estimate Rs 205-00

The present chunam floor will
be removed and the rubbish carted away
from site of the work to such a distance
as the District Engineer may think necessary.
The building will then be refloored with
flag stones now available in the Commissariat
Stores. The edges of the flags to be dressed
square, which will then be laid on a bed
of concrete 3" thick well rammed. The joints
after being thoroughly raked out will be
pointed with asphalt.

District Engineer
Bangalore
13th December 1877.

L. L. L. L.

J. H. H. H. Colonel R.E.
District Engineer

From
The District Engⁿ
Bangalore

To The Chief Engineer
Roads & Buildings Branch
Madras.

Dated 7th January 1878.

R^{es}

Estimate & Specification
for removing old chunam
floor and reflooring with
stone slabs of Garrison
Hospital Sergeants
Quarters at Bangalore

Amounting to Rs 205

196. Dist. Engineer's Office
Bangalore 7 January 1878

To The District Engineer
Bangalore

To The Chief Engineer
Roads & Buildings
Madras.

Sir,
I have the honor to forward
for the consideration of Government estimates
for the undiminished works prepared
submitted from the local Military
authorities and approved by His Excellency
the Commander in Chief.

2. The first is for constructing a stone
drain to carry off water from
the mess hall to the Barracks.
The mess hall is in the water
gradually falling into a tank, in
the margin of which a well was sunk
during the late drought. This well
will certainly suffer if this refuse
water

works

water is allowed to enter and a very slight alteration of its fall as originally designed will prevent any injury. The stone lining is necessary for the passage of the water to a distance.

3. The second estimate amounting to Rspees 175 is for preventing any nuisance from the gram ceiling shed. This is a part of the general scheme of drainage stopped in G. O. No 757 of 23rd September 1876. The Medical Officer of the Regiment was present for this work as the water of drainage has proved injurious to the health of the soldiers living near.

4. I have at the request of the District Commissioner, begun the work. The third estimate is for increasing the height of the pieces of the gun which are now on a level with the top of the arch. The pieces have been committed by persons apparently through the arch space.

6. The fourth estimate is for taking up the old concrete floor of the Sergeant Quarters Garrison Hospital and relaying it with stone. Of the estimated cost Rs 205, Rs 140 can be saved by using the stones taken up from the Commissariat godown, which is to be floored with large stone as sanctioned in G. O. No 1932 of 4th December 1877.

I have the honor to be
Sir,

Your most Obedient Servant

Wm. B. By. Colonel P. C.
District Engineer

Wm. B.

1877/71

1877-78

works

20.9.76 No 157 hrs
6.12.77 1932 W

From
The District Eng.
Bangalore.
To
The Chief Engineer
P.W.D.
Madras.

Dated 7 January/78.
Desd
Recd

N-196.

Enclosures { 4. E. & S. +
1. Plan +
Estimates - Sub-
= mitting for sanction
3 estimates for certain
drainage on the Apram
Barracks &
+ 1 Plan with
Librarian

Cir 19-1-78

B & R
Myer & Co

No 361 W Public Works Department

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 22nd Jan 78

Read the following :-

From the District Engineer
Bangalore

} H.E. No 196 of 7th January 1878.

The undermentioned
Estimates submitted by the
District Engineer, Bangalore,
are sanctioned.

1. Laying stone drain from tunnel near the old grand stand to Tunnel at corner of Victoria Road - Rs 500-100
2. do do from Carabry gram boiling shed to Tunnel in the Apram Barracks. " 175-101
3. Increasing the height of the gates to the crown of the arches of Sun sheds of Royal Horse Artillery and R. Artillery - 495-102
4. Removing old Chuan am floor and reflooring with stone slabs of Garrison Hospital at Bangalore - 205-103

It is presumed
that the District Engineer
will provide funds for these
works

81-117-78

works from the allotment
at his disposal under
Minor New Works. *W. H. 11/12/78*

917

This sanction has been
registered as Imperial &
numbered as shown above.

To the J. E. Sangre
Examiner, P. W. L. S.
Mildy. Dep. *with 4 Cotes 15-17*
Disp. *31-1-78*

11/12/78
11/12-1-78

CW 215

GOVT. of MADRAS
PUBLIC WORKS.

To *The D. & Bangalore*
W. J.

Dated

Issued

Recd.

Encl.

G. O., 22 Jan 1878, No. 361 W

Nos.

Estimates for certain work
in the Bangalore District

End to no Page