

(1) Number of pages _____

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.

462 (W)

Press

~~Mis.~~

Dated

20-7-

1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

20th July 1877, No. 462 W.

Buildings and Roads.
Military Works.

Read the following paper:—

No. 291. From Major H. M. VIBART, R.E., District Engineer, Bangalore, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Bangalore, 9th July 1877, No. 84.

I HAVE the honor to forward herewith, for the sanction of Government, a plan and estimate amounting to Rupees 275 with specification for constructing a latrine for the servants of European Non-commissioned Officers, Queen's Own Sappers and Miners, at this station.

2. The plan and estimate have been approved of both by the Major-General Commanding the Division and His Excellency the Commander-in-Chief.

3. The cost of the work can be met from the allotment under the head "Minor New Works, Military," for the current official year.

No. 292. ORDER THEREON, 20th July 1877, No. 462 W.

Heads of Service.—Imperial.
Fund.—Ordinary.
Class.—Original Works.
Main-head.—Military.
Sub-head.—Military Buildings.
Section.—Accommodation for Native Infantry.
Work.—Latrine for servants of Non-commissioned Sapper Officers, Bangalore.
Amount.—Rupees 270.
To be carried out by the Public Works Department.

THE plan and estimate of Rupees 270, for constructing a latrine for the use of the servants of the European Non-commissioned Officers of Her Majesty's Queen's Own Sappers and Miners, St. John's Hill Barrack at Bangalore, are sanctioned; the necessary funds being appropriated from Minor New Works, Military, for 1877-78 at the District Engineer's disposal.

2. The sanction herein accorded has been registered as Imperial No. 35 B of 1877-78.

(True Extract.)

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

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

Exd. E. C. Shunker.
Spare Copies

Centre wall do 1 594 1 1/2 10 35
Carried over 116 32

Heads of Service - Imperial

Fund. Ordinary

Class. Original Works

Main-head. Military

Sub-Head. Military Buildings

Sub-head. Accommodation for ~~European~~ Native Infantry
Section Native

Project of which the works form part.

Work. Latrine for servants of Non-Commissioned
Sapper officers, Bangalore -

Amount. Rs 270

To be carried out by the Public Works Department.

Print with L.O. No 462 W of 20 July 1877 -

Head of Service

Fund

Class

Main Head.

Sub Head.

Imperial

Ordinary

New Works

Military

Native Infantry

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

District Bangalore

Revised Detail Estimate No. of 1877
Name of work Constructing a Latrine for
the servants of the European Non-Commissioned
officers of Sappers & Miners Saint John's Hill
Bangalore vide Chief Engr. Memo No. 1540/95 June 1877

Particulars of work ^{Measurement} ^{Contents} ^{Total}
L 13 1/2

Excavations

Plaster wall of latrine & gangway	2	13 1/4	1 1/2	1 1/2	59 5/8	1
Front wall of Latrine	1	13 1/4	1 1/2	1 1/2	29 13/16	1
Do at the urinal cistern	1	3	1 1/2	1 1/2	2 1/4	1
End walls of Latrine	2	3 3/4	1 1/4	1 1/2	14 1/16	1
Centre wall of do	1	5 3/4	1 1/4	1 1/2	10 25/32	1
Under seats & dry earth stores	2	4 3/4	1 1/4	1 1/2	19	1
Screen walls in front of openings	2	6	1 1/2	1 1/2	27	1
Cistern (urinal)	1	3	2 1/2	2	15	1
Total Est of Excavations					177 17/32	1

Foundation

Plaster wall of Latrine & gangway	2	13 1/4	1 1/2	1 1/2	59 5/8	1
Front wall of Latrine	1	13 1/4	1 1/2	1 1/2	29 13/16	1
Do at the urinal cistern	1	3	1 1/2	1 1/2	2 1/4	1
End walls of Latrine	2	3 3/4	1 1/4	1 1/2	14 1/16	1
Centre wall do	1	5 3/4	1 1/4	1 1/2	10 25/32	1
Carried Over					116 17/32	1

Particulars of work ^{measurements} No 2 B.L. ^{Contents} Total

Brought forward 116 $\frac{17}{32}$

Screen wall in front of openings 2 6 $1\frac{1}{2}$ $1\frac{1}{2}$ 27

Total Lft of Foundation stone in chunam 143 $\frac{1}{3}$

4. Concrete

Under seats & Dry earth store 2 4 $\frac{3}{4}$ 4 $\frac{1}{2}$ 19

Passage in front of seats 2 5 2 $\frac{1}{4}$ $\frac{1}{2}$ 11 $\frac{1}{4}$

Gangway under stone floor 1 11 $\frac{3}{4}$ 2 $\frac{1}{2}$ $\frac{1}{4}$ 7 $\frac{3}{32}$

Total Lft of Concrete 37 $\frac{3}{32}$

Brick in Chunam.

Front wall of Latrine 1 12 $\frac{3}{4}$ 1 5 $\frac{1}{4}$ 66 $\frac{15}{16}$

Rear wall of do 1 12 $\frac{3}{4}$ 1 7 $\frac{1}{4}$ 92 $\frac{7}{16}$

do gang way 1 12 $\frac{3}{4}$ 1 5 $\frac{1}{4}$ 66 $\frac{15}{16}$

End walls including gable Latrine } 2 3 $\frac{3}{4}$ 9 $\frac{1}{4}$ 7 $\frac{5}{8}$ 42 $\frac{57}{64}$

Centre wall including gable 1 6 $\frac{1}{4}$ 3 $\frac{1}{4}$ 7 $\frac{1}{8}$ 33 $\frac{51}{128}$

Screen wall in front of opening 2 6 1 5 $\frac{1}{4}$ 63

Coping over do 2 6 $\frac{1}{4}$ 1 $\frac{1}{2}$ 5 $\frac{1}{8}$ 11 $\frac{23}{32}$

Side wall of Dry earth store 2 5 $\frac{1}{4}$ 3 $\frac{1}{4}$ 3 23 $\frac{5}{8}$

Pyal on both sides of troughs 4 3 $\frac{3}{4}$ 1 $\frac{1}{4}$ 1 $\frac{1}{3}$ 25

Troughs between do 2 4 $\frac{3}{4}$ 3 $\frac{1}{4}$ 3 4 $\frac{3}{4}$

Drains from trough to urinal cistern 2 4 $\frac{1}{2}$ 1 $\frac{1}{2}$ 2 $\frac{1}{4}$

Floor of Urinal cistern 1 3 2 $\frac{3}{4}$ 1 $\frac{1}{2}$ 4 $\frac{1}{8}$

Side walls for do 1 3 1 $\frac{1}{2}$ 2 $\frac{1}{8}$ 3 $\frac{3}{16}$

do do } 2 2 $\frac{1}{2}$ 1 $\frac{1}{2}$ 2 $\frac{1}{8}$ 6 $\frac{1}{16}$

do do } 1 2 $\frac{1}{4}$ 1 $\frac{1}{2}$ 3 $\frac{1}{4}$

do do } 1 2 $\frac{1}{2}$ 1 $\frac{1}{2}$ 3 $\frac{1}{2}$

Total 448 $\frac{7}{128}$

Particulars of work ^{measurements} No 2 B.L. ^{Contents} Total

Deduction

Opening in rear of seats 2 3 $\frac{1}{4}$ 1 1 $\frac{1}{2}$ 2 $\frac{1}{4}$

Stone over do 2 1 $\frac{3}{4}$ 1 $\frac{1}{3}$ 1 $\frac{1}{6}$

Space for Honey Comb work over front & rear wall } 4 4 $\frac{7}{8}$ 1 2 39

do do 2 4 $\frac{7}{8}$ 1 3 29 $\frac{1}{4}$

do in the end gable 2 1 $\frac{3}{4}$ 1 1 $\frac{1}{2}$

do Circular portion 2 3 $\frac{1}{4}$ 3 $\frac{1}{4}$ 1 $\frac{1}{8}$

do Arch work 2 2 $\frac{1}{2}$ 3 $\frac{1}{4}$ 3 $\frac{1}{4}$ 2 $\frac{13}{16}$

do in the centre cross wall 1 2 $\frac{1}{2}$ 3 $\frac{1}{4}$ 1 1 $\frac{1}{8}$

Total Deduction 78 $\frac{47}{48}$

Total Lft of superstructure brick in chunam 369 $\frac{35}{384}$

Honey Comb work

Space in front & rear 4 4 $\frac{7}{8}$ 2 39

do do 2 4 $\frac{7}{8}$ 3 29 $\frac{1}{4}$

do in the end gable } 2 1 1 2

do in the centre cross wall 1 2 $\frac{1}{2}$ 1 2 $\frac{1}{2}$

Total Lft of Honey Comb tile work 74 $\frac{1}{4}$

Lft of Circular arch work 2 $\frac{13}{162}$

Lab stone over opening in rear of seats } 2 1 $\frac{3}{4}$ 1 $\frac{1}{3}$ 2 2

do for preventing concrete floor in front passage } 2 2 $\frac{1}{2}$ 1 $\frac{1}{2}$ 2 2

do do gang way 2 2 $\frac{1}{2}$ 1 $\frac{1}{4}$ 2 2

Plastering inside

Front wall inside 2 6 4 $\frac{1}{4}$ 57

Carried over 57

Particulars of work ^{measurements} ^{contents} ^{total}

Brought forward			57
Front wall outside	1	12 3/4 . 5	63 3/4
Rear wall of Latrine	2	5 1/4 . 7	73 1/2
do do	1	12 3/4 . 6 1/2	82 7/8
Rear wall of gangway inside	1	12 3/4 . 4 3/4	60 7/16
do do outside	1	12 3/4 . 5	63 3/4
Sides of pillars on front & rear wall	8	1 . 2	16
do ends of gangway	2	1 . 5 1/4	10 1/2
do rear wall of Latrine	4	1 . 3 1/4	13
Centre wall both sides	2	6 1/4 . 7 1/8	89 1/16
End walls over Dry earth store			
inside	2	3 3/4 . 4 5/8	34 11/16
do outside	2	5 1/2 . 7 7/8	86 5/8
Side wall of Dry earth store	2	5 1/4 . 5 3/4	60 3/8
Sides of opening in rear of front	2	3 . 1	6
Screen wall in front of opening	2	13 . 4 5/8	120 1/4
Coping over do	2	6 1/4 . 3	37 1/2
Inside of cistern	8	2 3/4	22
outside do	9	1 1/4	11 1/4
Floor of do	1	2 2	4
Total			912 1/16

Deduction

opening in rear of rear	2	1 2 1	4
Space for Honey Comb work	4	4 1/8 2 2	78
do do	2	4 1/8 2 3	58 1/2
do in the centre cross wall	1	2 1/2 2 1	5
Total Deduction			145 1/2
Total Qty of Plastering with Chunar			767 1/16
do white washing two coats			4.60 1/16
do Blue washing do			3.06 5/8

Particulars of work ^{measurements} ^{contents} ^{total}

Wood work

Bressummers over front and rear wall	2	13 1/4 . 4 5 3-8-2	✓
Ridge pieces	2	13 1/4 . 3 4 2-2-6	✓
Total Qty of Teak wood wrought & put up			5-10-8

Roofing

Over Latrine & gang way	1	13 3/4 . 15 1/2	2 13 5/8
Total Qty of Corrugated Iron sheeting with ridge including bolts &c.			2.13 5/8

Floors

Passages	2	6 2 1/2	30
Troughs	2	4 3/4 3/4	7 1/8
Pyalson sides of troughs	4	3 3/4 3/4	11 1/4
Total Qty of asphalt flooring			65 1/4

Stone floors

Gang way	1	12 3/4 2 1/2	31 7/8
Total Qty of stone slabs			31 7/8

Larring

Sides & rear wall over troughs	2	10 1/2 . 13 1/4	36 3/4
Front of Dry earth store	2	3 . 2 1/2	15
Centre wall	2	2 1/2 . 2 1/2	12 1/2
Front wall inside	2	6 . 2 1/2	30
Total Qty of Larring			94 1/4

Wooden buckets with Iron			
Handle Complete	2		2 2
Wooden Covering with Iron works			
&c Complete for animal cistern	1	3 3 1/2	1 1 X

Particulars of work

Measurement
In L B L

1	4	4	4
1	3	3	3
1		1	1

L B L
26/6/77

ud of service
und
Class
in Head
in Head
To be carried out by the P. H. L.
District Bangalore
Revised Abstract Estimate No. 1540 of 1877 for
Construction of a latrine for
servants of the Europeans Non Commissioned
Officers of Sappers & Miners Lt John Hill P. H. L.
Bangalore Civil Chief Engr. Memo No. 1540 of 19 June 1877

Description of work Rate Per Amount L B L

8	Qty of Excavation	144	410
4	Do Foundation stone in chunam	3	27
8	Do Concrete	33	716
7	Do Superstructure brick in chunam	3	693
4	Qty of Honey Comb tile work	88	648
3	Qty of Circular arch work brick	4	129
	in Chunam	3	6
	Stone Slab over opening $1\frac{1}{2} \times 1 \times \frac{1}{2}$	3	6
	Do for Concrete floor $2\frac{1}{2} \times 2 \times \frac{1}{2}$	2	4
	Do Do $2\frac{1}{2} \times 2 \times \frac{1}{2}$	2	4
	Qty of Plastering with chunam	28	1929
	Do white washing inside	2	92
	Do Blue washing outside	3	92

Carried Over 1331 10

Quantity Description of work & Rate Per Month. Total

Brought forward 133 1/10

5-10-8 Lft. of Teak wood wrought
and put up 38. of 20 99

12-13 Lft. of Corrugated Iron
Sheets with ridges including
bolts &c. 31. of 66. 5

65 Lft. of Asphaltic flooring 18. of 11 112

32 Lft. of Stone slabs flooring 128. of 4. 512

94 Lft. of Larring 1. of 15. 15

2 wooden buckets with iron
handles complete 38. of 7. 266

1 Teak wood covering with
iron work complete
for urinal system 3x3 1/2 11. of 11. 121

4 Lft. of Zinc pipe 8. of 2. 16

3 Lft. of Lead flushing 4. of 12. 48

1 Matting board 4. of 4. 16

261 22

Lundries 13 1/10

Total Estimate Rupees 275

Central office

District Engineer's office
Bangalore
26th June 1877.

Sd/- Major P. C.
District Engineer

By Order
A. Prasad

13/11

Specification to accompany
a revised plan and Estimate for
constructing a Latrine for the servants
of the European Hon Commissioned
Officers of Engineers and Miners (Sd/-
Johns Hill Barracks Bangalore 77).

Amount of Estimate Rupees 275.
Excavation for foundation to
walls to be dug to a depth of 18 inches
and a depth of 6 inches in
to tray 18 1/2 ft. al. watered and
tambed well to a good level.

Foundation for walls will be
of stone laid in chunam well
bonded and closely packed with
neat joints and at least every
sixth to be a through header.
Walls will be built of good
sound well burnt bricks in
chunam. English bond to be
observed throughout joints to be
as neat as possible.

The spaces between pillars
in front and rear of Latrines
are to be closed with Honey Comb
tile work & to consist of semi circular
tiles laid horizontally at right
angles to the walls in which the
opening to the screened occurs
with the edges of each resting on
the

11/11/77

From

The District Engineer
Bangalore

To

The Chief Engineer
for Roads and
Buildings
Madras.

Date 9th July 1877.
Recd.

Estimate and Specification
for Constructing a Latrine
for the Servants of the
European Non Commissioned
Officers of Sappers and
Miners Saint John's Hill
Barracks at Bangalore

Amounting to Rs 275

40 202-July/77 Rs 275

5/11/77

Bud. 1000 (1000)

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 20th July 1877

Read the following:—

From the Dist. Engineer Bangalore (H. C. 1284 dated 9th July 1877).

The plan and esti-
-mate of Rs:270 for construc-
-ting a Latrine for the use
of the servants of the Euro-
-pean Non-Commissioned
Officers of Her Majesty's
Queen's own Sappers and Mi-
-ners, St. John's Hill Bar-
-rack at Bangalore, are
sanctioned, the necessary
funds being appropriated
from Minor New Works
Military for 1877-78 at the
District Engineer's disposal.

D.E. Bangalore.

By Mr. A. B. S. S.

By Mr. A. B. S. S.

Recd. 27-7-77

14.7.77

207

Me

The sanction herein
recorded has been registered
as Imperial No 35 A of
1877-78-

Roads and Buildings
From ~~11th July 77~~
The District Engr
Bangalore
To The Chief Engineer
S. M. D.
Roads & Buildings
Madras.

No 84.

Dated 9th July 1877.

Encls: 1. Estimate &
1. Plan.

with ~~the~~ ~~plan~~

Latrines for the servants
of the European Commis-
sioners of the Government
& Ministers at this Station.

Forwarded for sanction
of Govt. Plans and Estimate
for constructing—

Copy

G.O. of 1877

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

G. O. 20-7-77 1877, No. 462W

Nos. 291-292

St John's Hill Bazaar
at Bangalore - The plan
and estimate of Rs 270 for
constructing a latrine for
the use of the servants of the
European hon. Commissioned
Officers of Her Majesty
Queen's Own Lancers & Mimers
at —, sanctioned and funds
appropriated

Go to in Regt
20-7-77