

(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. 74

Press
Mis.

Dated 17

18

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
17th January 1872.*

Read the following papers:—

No. 282. From the Officiating Superintending Engineer, 5th Division, to the Secretary to Government, Public Works Department, dated 14th September 1871, No. 132.

With reference to G. O. No. 1,575 of the 13th May 1869 I have the honour to submit for the sanction of Government for entry in the budget of 1872-73 the under-mentioned estimates for Military buildings at Bangalore, namely:—

5 Estimates.
5 Specifications.
5 Plans.

- | | |
|--|--------------|
| 1. Altering and improving the present privies attached to Cavalry and Artillery Barracks in the Race Course, Bangalore | rs.
6,120 |
| 2. Altering and improving the present privies, east end, European Infantry Barracks at Bangalore | 3,940 |
| 3. Altering and improving the present privies, west end, European Infantry Barracks at Bangalore | 3,730 |
| 4. Improving the present privy for Royal Artillery, Race Course, Bangalore | 1,040 |
| 5. Constructing new privies for the Royal Horse Artillery at Bangalore | 4,540 |
2. The plans and estimates have been approved of by His Excellency the Commander-in-Chief.

No. 282A. Endorsement of the Acting Superintending Engineer, 5th Division, dated Trinomalay, 9th December 1871, No. 202.

From the Executive Engineer, Bangalore, to the Superintending Engineer, 5th Division, dated Bangalore, 2nd December 1871, No. 830.

In answer to your No. 117, dated 30th September 1871, I have the honour to state that I was addressed by Assistant Quartermaster-General, Mysore Division, regarding the probable cost of constructing dry earth sheds for the latrines of Race Course and Royal Horse Artillery Barracks, and, in reply, requested that officer to apply to Government for the plans which, it was believed, had been designed by the Sanitary Commissioner and approved by Government as suitable for this requirement. To this no reply was received, and I consequently reported to the Assistant Quartermaster-General that the cost of altering each latrine would probably be Rupees 500.

2. The estimate, amounting to Rupees 19,370, framed in compliance with G. O. No. 1,656, dated 4th May 1869, includes alterations of latrines for Infantry Barracks as well as entirely new latrines for the Royal Horse Artillery, as the old ones are in a very bad state.

SUBMITTED to Government, with reference to their Under-Secretary's memorandum No. 245 of 28th September 1871.

(Signed J. VERTUE, Captain, R.E.,
Acting Superintending Engineer, 5th Division.

Proceedings of the Madras Government, Public Works Department,
17th January 1872.

No. 283.

ORDER THEREON, 17th January 1872, No. 143.

MILITARY WORKS, No. 3.

THE plans and estimates, submitted with the first of the letters above recorded, for the construction, alteration, and improvement of privies for European Troops at Bangalore at an aggregate cost of Rupees 19,370, are sanctioned.

2. Funds for the works will be provided in the out-going budget.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Military Department.

- .. Superintending Engineer, 5th Division.
- .. Controller of Public Works Accounts.

Exd. F. R. Bantleman.

No 132.

Superint. Engr's Office, 5th Div.,
Camp. Bangalore. 14th Sep. September 1871.

From,

The Offg. Superint. Engineer,
5th Division.

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

Sir, With reference to G. O. No. 1575 of the 13th May 1869, I have the honor to submit for the sanction of Government for entry in the Budget of 1872-73, the under-mentioned estimates for Military Buildings at Bangalore, viz:-

Enclosures 15.
5 Estimates
5 Specifications
5 Plans.

1. Altering and improving the present privies attached to Cavalry and Artillery Barracks in the Race Course, Bangalore..... Rs. 6,120 5
2. Altering and improving the present privies East end, European Infantry Barrack - Do..... Rs. 3,940 5
3. Altering and improving the present privies West end - Do..... Do..... Rs. 3,730 5
4. Improving the present privy for Royal Artillery, Race Course, Bangalore... 1,040 5

Carried over

5. Constructing new Privies for the Royal Horse Artillery at Bangalore - No 4,540

2. The Plans and Estimates have been approved of by His Excellency the Commander-in-Chief.

Have the honor to be

Chap.

Your most Obedient Servant

James Vertue Captain R.E.,
Offg: Superior Engineer, 5th Regt.

— 5th Division, D. P. W. —

Library.

Bangalore.

New York.

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Running feet of Privy wooden seats 2 ft.

wide) ————— 1 12 " B/H 32 " "

Squares of Wood oiling two coats	2	• •	Sept	14	• •
----------------------------------	---	-----	------	----	-----

Subic feet of Filling in basement	1/2	6/4	1
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Squares of Stone Pavings _____ 15 Apr 54

- D. - of Flooring with one book clow, and binch.

Sand 5 9 21

married, yes

5. Constructing new Privies for the Royal
Horse Artillery at Bangalore - No 4540

2. *been app*
the Com

1871 Dept
The Off: Sup: Engineer,
5th Division.

The Secretary to Government
P. H. Department,
headqrs.

Dated 14th
Recd: 18th September 1871.

5-6. No 132

Enclosures 15.

Submits for the sanction of
Government for entry in the
Budget of 1872-73, estimates for
altering the latrine accom-
modation of the European troops
at Bangalore, for the purpose
of dry earth system of
conservancy.

No 382

6 Oct 1872

No 143-17 Dec 1872

— 5th Division, D. P. W. —

Military

— Bangalore. —

New Works.

— Abstract Estimate of 1871-72. —

Works. — Altering and improving the present Privy for Royal Artillery,
on the Race course, Bangalore.

Quantity	Description of work.	Rate Per	Amount	Totals.
533	Cubic feet of Dismantling brick work	2 6 ft	6	
642	Squares of — D. — stone flooring	8 . Sqre	3	
228	Cubic feet of Excavation	1 6 ft	1	
228	— D. — of Foundation stone in chunam	2 6 D.	36	
91	— D. — of Basements — D. —	2 6 D.	14	
768	— D. — of Superstructure bricks in chunam	2 9 D.	132	
87	— D. — of Archwork — D. —	4 . D.	22	
76	Running feet of Cornice work — D. —	4 . Rft	19	
1534	Squares of Plastering with chunam	2 8 . Sqre	38	
3118	— D. — of Whitewashing two coats	3 . D.	6	
2168	— D. — of Bluewashing — D. —	4 . D.	5	
55	Cubic feet of Teak wood wrought and put up	3 8 . Cft	193	
497	Squares of Terracing	27 8 . Sqre	137	
187	Square feet of Iron partition	12 . Sqft	140	
18	Running feet of Privy wooden seats 2 ft wide	1 12 . Rft	32	
829	Squares of Wood oiling two coats	2 . . Sqre	17	
90	Cubic feet of Filling in basements	1/2 Cft	1	
382	Squares of stone paving	15 . . Sqre	57	
413	— D. — of Flooring with one foot clay and binch sand	5 . . D.	21	
	Carried over		880	

5th Division, D. I. W.

Militarys.

Bangalore!

6 New Works.

Abstract Estimate of 1871-72.

Works. Altering and improving the present Quarters at the West end of European
Infantry Barracks, Bangalore.

Quantity	Description of work.	Rate Per	Amount	Total.
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45.75	Cubic feet of Dismantling bricks work	2	6 ft	48
27.69	Squares of — $\frac{1}{2}$ — stone flooring	8	Sqre	14
4.11	Cubic feet of Excavation	1	6 ft	2
4.11	— $\frac{1}{2}$ — of Foundation stone in chunam	2	6 $\frac{1}{2}$	64
87	— $\frac{1}{2}$ — of Basements — $\frac{1}{2}$ —	2	6 $\frac{1}{2}$	14
3.696	— $\frac{1}{2}$ — of Superstructure bricks in chunam	2	9 $\frac{1}{2}$	635
880	— $\frac{1}{2}$ — of Archwork — $\frac{1}{2}$ —	4	$\frac{1}{2}$	220
249	Running feet of cornice work	4	6 ft	62
83.34	Squares of Plastering with chunam	2	8	208
121.30	— $\frac{1}{2}$ — of Whitewashing two coats	3	$\frac{1}{2}$	23
54.95	— $\frac{1}{2}$ — of Bluewashing — $\frac{1}{2}$ —	4	$\frac{1}{2}$	14
117	Cubic feet of Teak wood wrought and put up.	3	8	409
15.00	Squares of Terracing	27	8	413
812	Square feet of Iron partition	12	6 ft	609
84	Running feet of Wooden privy seats 2 ft. wide	1	12	147
7.92	Squares of Wood oiling two coats	2		16
45	Cubic feet of Filling in basements	$\frac{1}{2}$	6 ft	1
14.08	Squares of Stone paving	15		211
15.55	— $\frac{1}{2}$ — of Flooring with one foot of clay and 6 inches sand.	5	$\frac{1}{2}$	78
	Carried over.			3188

5th Division, D. of W.

Dangdore!—

P. R. 4420/71

Advanced Estimates for
 Working and improving the present
 Army for a Corps of Artillery
 on the same Scale, & Organization.

Amount of Colimate to \$10400...
L 89m4477

Brought over		3188	
91	Squares of Graveling	2	2
1	Pair of Battened door (3x6 with frames & complete)	18	18
13	— D ₂ — D ₂ — windows (3x5) — D ₂ —	15	195
16	Glazed swing windows (3x1½) — D ₂ —	7	112
6-18	Squares of Red painting two coats	3	19
	Removing rubbish		8
		3542	
Sundries		188	

Total Amount of Estimate Rupees 3730.
Rupees Three thousand seven and thirty only.

Executive Engineer's Office
Bangalore, 15th March 1871

(Signed) H. W. Wood Captain, B.E.
Executive Engineer, Bangalore

Arthur Colman, B.E.
Superintg Engineer 5th Division.

Assistant Engineer's Office
Bangalore 26 May 1871

Approved

By Order

William May

Offg Asst Engr



— 5th Division, D. I. W. —

Military.

— Bangalore. —

New Works.

— Abstract Estimate of 1871-72. —

Works. — Altering and improving the present Privies at the East end of European Infantry Barracks, Bangalore.

Quantity	Description of works.	Rate Per	Amount	Total.
4,636	Cubic feet of Diamantling brick work	" 2 Cft.	48	"
26.75	Square of — D ₂ — stone flooring	" 8 Sqr	13	"
359	Cubic feet of Excavation	" 1 Cft.	2	"
359	— D ₂ — of Foundation stone in chunam	" 26 D ₂	56	"
75	— D ₂ — of Basements — D ₂ —	" 26 D ₂	12	"
3873	— D ₂ — of Superstructure bricks in chunam	" 29 D ₂	666	"
912	— D ₂ — of Archwork — D ₂ —	" 4 D ₂	228	"
262	Running feet of Cornice work	" 4 Cft.	66	"
87.73	Squares of Plastering with chunam	" 2 8 Sqr	219	"
133.67	— D ₂ — of Whitewashing two coats	" 3 D ₂	25	"
57.64	— D ₂ — of Bluewashing — D ₂ —	" 4 D ₂	14	"
123 ⁶⁷ / ₇₂	Cubic feet of Teakwood wrought and put up	" 3 8 Cft.	434	"
15.92	Squares of Terracing	" 27 8 Sqr	438	"
777	Square feet of Iron partition	" 12 Sqr	583	"
84	Running of ^{wooden} Privy seats 2 feet wide	" 1 12 Cft	147	"
8.58	Squares of Wood oiling two coats	" 2 Sqr	17	"
589	Cubic feet of Filling in basements	" 2 Cft.	6	"
14.74	Squares of stone paving	" 15 Sqr	221	"
14.00	— D ₂ — of Flooring with one foot of clay and 6 inches sand	" 5 D ₂	70	"
91	— D ₂ — of Gravelling	" 2 D ₂	2	"

Carried over 3267

— 5th Division, D. I. W. —

— Bangalore. —

P. N. 4420/71

Abstract Estimate for

Altering and improving the present
Privies at the West end of European
Infantry Barracks, Bangalore.

Amount of Estimate Rs. 3730.00

Rs. 3730.00



	Brought over	3267 . .
1	Pair of Battened door (3x6) with frames & complete.	18 . . Each 18 . .
15	Do. Do. windows (3x5)	15 . . Do. 225 . .
15	Glazed swing windows (3x1 1/2)	7 . . Do. 105 . .
7.09	Squares of Red painting 2 coats	3 . . Sqre. 21 . .
109	N ^{os} of covering stones for drain (6x1 1/4 x 1/2)	1 . . Each 109 . .
	Removing rubbish	8 . .
		3753 . .
	Sundries	187 . .

Total Amount of Estimate Rupees. 3940..

Executive Engineer's Office }
Bangalore, 15th March 1871 }

(Signed) A. W. Woods Captain, R.E.
Executive Engineer, Bangalore.

A. H. Mear Colonel, R.E.
Superintending Engineer, 5th Div.

A 2 mts office in Mysore
Bangalore 26. May 1871

Approved By order
W. A. Cunningham
Off. Secy to the Govt.

— 5th Division, D. J. W. —

Military

— Bangalore. —

10 New Works.

— Abstract Estimate of 1871-72. —

Work. — Altering and improving the present Privies attached to Cavalry and Artillery Barracks on the Race Course, Bangalore.

Quantity	Description of work.	Rate	Per	Amount	Total.
998	Cubic feet of Dismantling brick work. —	2	cts	10	..
12.90	Squares of — D ₂ — stone flooring —	8	Sqrs	6	..
228	Cubic feet of Excavation —	1	cts	1	..
228	— D ₂ — of Foundation stone in chumam —	2	6 D ₂	36	..
91	— D ₂ — of Basement — D ₂ —	2	6 D ₂	14	..
872	— D ₂ — of Superstructure brick in chumam —	2	9 D ₂	150	..
165	— D ₂ — of Archwork — D ₂ —	4	D ₂	41	..
104	Running feet of cornice work —	4	Rs	26	..
19.94	Squares of Plastering with chumam —	2	8 Sqrs	50	..
50.98	— D ₂ — of Whitewashing two coats. —	3	D ₂	10	..
34.57	— D ₂ — of Bluewashing — D ₂ —	4	D ₂	9	..
72 $\frac{7}{12}$	Cubic feet of Teakwood wrought and put up —	3	8 cts	254	..
7.55	Squares of Terracing —	27	8 Sqrs	208	..
3.73	Square feet of Iron partition —	12	Sft	280	..
36	Running feet of Wooden privy seats 2 feet wide —	1	12 Rs	63	..
14.50	Squares of Wood oiling two coats —	2	Sqrs	29	..
90	Cubic feet of Filling in basement —	1	1/2 cts	1	..
6.59	Squares of Stone paving —	15	Sqrs	99	..

Carried over ————— 1287 ..

— 5th Division, D. J. W. —
— Bangalore. —

D. N. 4420/71

Abstract Estimate for
Altering and improving the
present Privies at the East end
of European Infantry Barracks,
Bangalore.

Amount of Estimate Rs 3940 ..
Rs 3920 3887 ..
Rs 19 ..

Brought over		1,287	..
8.27	Squares of Flooring with one foot of clay and 6 inches sand	5	sqre 41
82	— of Graveling	2	sqre 2
1	Pair of Battened door 3' x 6' with frames, hinges, locks, keys &c	18	Each 18
4	— windows 3' x 5' —	15	sqre 60
1	Gate (7' x 6') with painting &c	40	sqre 40
2.63	Squares of Red painting two coats	3	sqre 8
	Removing rubbish		5
			1461
	Sundries		69

Total Amount of Estimate Rs for one Truss 1,530 ..
 —————
 —————
 Rs for four Trusses 6,120 ..
 Rupees Six thousand one hundred and twenty

Executive Engineer's Office
 Bangalore, 15th March 1871

(Signed) B. H. Hood, Captain, B. E.
 Executive Engineer, Bangalore.

A. B. Deane Colonel, B. E.
 Superintending Engineer S. D.

A 2nd Subordinate Office in Mysore
 Bangalore 26th May 1871

Approved

By Order
 H. K. Srinivasan
 Off A 2nd Subordinate

— 5th Division, D. J. H. —

Military.

— Bangalore. —

New Works.

— Abstract Estimate of 1871-72. —

Work. — Constructing the Privies for Royal Horse Artillery Barracks, Bangalore.

Quantity	Description of work.	Rate	Per	Amount	Total
1001	Cubic feet of Excavation	"	1 Cft.	5	"
1001	— D ₂ — of Foundation stone in chunam	"	2 6 D ₂	156	"
399	— D ₂ — of Basement — D ₂ —	"	2 6 D ₂	62	"
3111	— D ₂ — of Superstructure brick in chunam	"	2 9 D ₂	535	"
185	— D ₂ — of Archwork — D ₂ —	"	4 . D ₂	46	"
178	Running feet of cornice work	"	4 . Rft.	45	"
53.76	Squares of Plastering with chunam	2	8 . Sqre	135	"
30.18	— D ₂ — of Whitewashing two coats	"	3 . D ₂	6	"
23.78	— D ₂ — of Bluewashing — D ₂ —	"	4 . D ₂	6	"
123 ⁷ / ₈	Cubic feet of Teak wood wrought and put up	3	8 . Cft.	433	"
20	N ^o of Nails 8 long	"	8 Each	1	"
10.57	Squares of Terracing	27	8 . Sqre	291	"
187	Square feet of Iron partition	"	12 . Sqft.	140	"
4	N ^o of Perforated plates with frames 18 ⁱⁿ for air holes	1	. . Each	4	"
18	Running feet ^{wooden} Privy seats 2 feet wide	1	12 . Rft.	32	"
4	N ^o of Stone plates under beams	"	4 . Each	1	"
7.89	Squares of Wood oiling two coats	2	. . Sqre	16	"
276	Cubic feet of Filling in basements	"	1/2 Cft.	1	"
4.31	Squares of ^{Stone} Laving	15	. . Sqre	65	"
4.13	— D ₂ — of Flooring with one foot clay and 6 inches sand	5	. . D ₂	21	"
	Carried over			2001	"

— 5th Division D. J. H. —

— Bangalore. —

D. H. 4420/71

Abstract Estimate

for Altering and improving the present Privies attached to Barrack and Military Barracks on the Race Course, Bangalore.

Amount of Estimate Rs 6120-0-0

Rs 208857-4477.

Brought over ————— 2001 . . .

91	Squares of Graveling	2 . . .	2 . . .
1	Pair of battened door 3'x6' with frames, hinges, locks &c complete	18 . . .	18 . . .
2	— — — — — windows (3'x5') — — — — —	15 . . .	30 . . .
8	Glazed swing windows (3'x1½') — — — — —	7 . . .	56 . . .
1	Gate 7'x6' with painting &c	40 . . .	40 . . .
1.59	Squares of Red painting two coats	3 . . .	5 . . .
1	Marking board	5 . . .	5 . . .
4	Inventory boards	12 . . .	3 . . .
	Levelling the ground		5 . . .

2165 . . .

Sundries

105 . . .

Total Amount of Estimate Rupees for one privy 2270 . . .

— ditto — — — — — ditto — — — — — for two privies 4540 . . .

Rupees Four thousand five hundred and forty only

Superintg. Engineers Office 5th Divⁿ
Bangalore, 15th March 1871 — 3

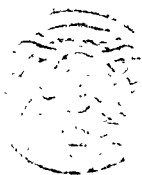
(Signed) A. W. Wood Captain R.E.
Executive Engineer, Bangalore

A. S. Leach Colonel, R.E.
Superintending Engineer 5th Divⁿ

A 2nd class Office in Mysore
Bangalore 26 May 1871

Approved
By Order

[Signature]
Offl. A. S. Leach



570 500
No 830



Executive Engri Office,
Bangalore, 2nd December 1871
14

From

The Executive Engineer,
Bangalore.

To,
The Superintending Engineer,
5th Division.

Sir,

In answer to your No. 117
dated 30th September 1871, I have the
honor to state that I was addressed
by Assistant Quarter Master General,
Mysore Division, regarding the proba-
ble cost of constructing dry earth sheds
for the latrines of Race Course and Roy-
al Horse Artillery Barracks, and in
reply requested that Officer to apply
to Government for the plans which,
it was believed, had been designed by
the Sanitary Commissioner and approv-
ed by Government as suitable for

5th Division, D. S. M.
Bangalore.

P. N. 4420/71

Attached Estimate for
constructing the 2nd & 3rd of
Horse Artillery Barracks,
Bangalore.



Amount of Estimate Rs. 4,540

Rs. 4,540
4477

this requirement. To this no reply was received, and I consequently reported to the Assistant Quarter Master General that the cost of altering ^{each} latrine would probably be Rupees 500.

2. The Estimate amounting to Rupees 19,370, framed in compliance with L. O. No. 1656 dated 4th May 1869, includes alterations of latrines for Infantry Barracks as well as entirely new latrines for the Royal Horse Artillery, as the old ones are in a very bad state.

I have the honor &c.

/ Signed / A. M. Wood Capt. R.E.
Executive Engineer, Bangalore

Suptg. Engrs. Office, 5th Ln.,
Camp, Tirunelveli 9th December 1871.
No. 202.

Submitted to Government,
with reference to their Under Secretary's

Memorandum No. 245 of 28th September
1871.

15
James Verrier Capt. R.E.
Acting Suptg. Engrs. 5th Ln.

To
The Secretary to Government,
Public Works Department.

16 17

No 143

The plans and Estimates submitted with the first of the letters above recorded for the construction, alteration and improvement of privies for European troops at Bangalore, at an aggregate cost of Rs. 19,370, are sanctioned.

Funds for the works will be provided in the out going budget.

To The Military Dept.
" Supd Engr. 5th Div. with fine
" Controller P. A.

28th Dec 1872

Dec 25/72

28th Dec 1872/4 Div-245

Public Works 1871 Department
From the Officer Engr. in
charge
To the Secretary to Govt
P. A. W.

Dated 9th Dec 1872
Received 11th Dec 1872

Submitting copy of
letter from Executive Engr.
Bangalore, explaining
the cause of difference
between the approximate
cost & estimate submitted
for alterations &c. to the
Division of European
troops at Bangalore
No 143-17 Bangalore/72.

Dec 28/72

6 Jan 1873/113

Of 6420 + 5977

Govt of 1872 Madras.

PUBLIC WORKS.

To The Military Department

Dated

Recd.

Fr. 10

G. O. 15 July 1872 No. 143.

Nos. 282-282, 4283

^{amounting to Rs. 14,370}
Privies - Estimates for the
construction, alteration and
improvement of privies for
European troops at Bangalore,
auctored -