

(1) Number of pages 32

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public works* **DEPARTMENT.**

G.O. No. 2730	Press ~~Mis.~~
255-56	
Dated 14 . 11	1870.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
14th November 1870.*

No. 255. Read the following letter from the Acting Superintending Engineer, 5th Division, to the Secretary to Government, Public Works Department, dated Cuddalore, 17th October 1870, No. 156:—

I HAVE the honour to forward, for the sanction of Government and for entry in the Budget of 1871-72, the under-mentioned Military Works at Bangalore, namely:—

Three Plans.
,, Estimates.
,, Specifications.

- | | |
|--|-----------|
| (1.) Making certain alterations and additions in the double wash-house on the Race Course | rs. 4,700 |
| (2.) Constructing a cook-room for Recreation-room and Serjeants' Mess, Cavalry Barracks | 4,560 |
| (3.) Constructing a water-trough for Royal Horse Artillery Barracks | 665 |

2. These estimates have been prepared at the desire of the General Commanding the Division, and have been approved by His Excellency the Commander-in-Chief.

No. 256. ORDER THEREON, 14th November 1870, No. 2,730.

MILITARY WORKS, No. 9.

ORDERED that the estimates received with this letter be forwarded for the sanction of the Government of India.

2. The question of providing funds for the first two works will be considered when the Budget comes before the Government.

(Here enter No. 2,731, dated 14th November 1870.)

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting-Superintending Engineer, 5th Division.
,, Controller of Public Works Accounts.
,, Military Department.

Exd. E. C. Shunker.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 14th November 1870.

No. 257.

No. 2,731.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

MILITARY WORKS, No. 10.

SIR,—I am directed by the Right Honourable the Governor in Council to submit, for the sanction of the Government of India, the accompanying plans and estimates for the construction of the under-mentioned works connected with the Race Course Barracks at Bangalore, and to state that they have met with the approval of His Excellency the Commander-in-Chief:—

Alterations and additions to four double wash-houses	4,700
Constructing a cook-room for Recreation-room and Serjeants' Mess attached to Cavalry Barracks	4,560
Water-trough for Royal Horse Artillery Barracks	665

I have the honour to be,

Sir,
Your most obedient servant,

Colonel, R.E.,
Secretary to Government.

Exd. E. C. Shunker.

57

5th Division, D. P. W.

Military. Bangalore. New Works.

Abstract Estimate of 1870-71.

Work. — Constructing a Water Trough for Royal Horse Artillery Barracks, Bangalore.

Quantity	Description of work	Rate	Per	Amount	Total
1687	Cubic feet of Excavation	1	6. 1/2	9	
984	Do of Foundation stone in chunam.	2 6	Do	154	
516	Do of Superstructure brick in do.	2 9	Do	89	
85	Do of Concrete	2 9	Do	15	
2.05	Squares of Flooring of Stone slabs 3" thick with the edges dressed square to be laid in mortar and pointed with cement	15	Sq. ft.	31	
199	Running feet of coping stones 9" broad and 6" thick rounded on edges.	12	Do. ft.	149	
5.94	Squares of Plastering two coats	2 8	Sq. ft.	15	
5.4 1/2	Do of Do with cement	12	Do	65	
5.94	Do of Bluewashing outside	4	Do	2	
200	Running feet of Earthenware pipes 4 1/2" diameter including the cost of excavation and laying &c complete	3	Do. ft.	38	
	Carried over.			567	

Brought over		567	
1. No. of Plug	8. Each	1	
39.52 1/2 Squares of Stone jelly and gravel 6 inches thick	1 8. Sqr	59	
Leveling the ground		5	
		632	
Surchises		33	

Total Amount of Estimate Rupees. 665
 Rupees Six hundred and sixty five only.

Executive Engineer's Office
 Bangalore, 19th September
 1870.

Signed H. W. Wood Captain, E.C.
 Executive Engineer, Bangalore

Rich A. Roberts Captain, E.C.
 Asst. Superintending Engineer.

Military.

Fifth Division D. P. W.

New Work

Bangalore.

91

Abstract Estimate of 1870-71.

Work: Constructing a Cook Room for Recreation Room and
 Sergeants' Mess Cavalry Barracks.

Quantities or Number	Description of Work	Rate Per	Amount Total
1589	Cubft of Excavation	" 1 Cft	10
1889	do of Foundation Stone in Chum	" 2 6 do	295
787	do of Basement do do	" 2 6 do	123
4221	do of Superstructure brick in Chumam	" 2 9 do	726
257	do of do Stone in Chum	" 2 9 do	44
	do of Arch work brick in Chum	" 4 " do	41
194	do of do Stone in Chum	" 6 " do	73
108	Number of Quoin Stones	1 " " 6	108
226	Rft of Cornice work	" 12 " Rft	170
64.46	Squares of Plastering with two coats of Chumam	2 8 " Sqr	161
46.27 3/4	do of Whitewashing two coats	" 3 " do	9
18.17 3/4	do of Blue washing do	" 4 " do	5
81.8	Sqrft of Dressing Stone	" 4 " Sft	212
8.48	Squares of Pointing with lime putty	2 " " Sqr	17
158 1/2	Cubft of Teak wood wrought and put up	3 8 " Cft	555
266	No. of Nails 7" long	" " 7 6	10
	Carried forward		2559

	Brought forward		2559
12.65	Squares of Roofing with one course of flat tiles and two courses of span tiles laid in mortar with chunam borders including plained reapers and nails	18 " " Sqr	228
40	Rft of Ridge ventilator	3 14 " Rft	155
5.18	Squares of Terracing with bricks on edge jelly 3" thick 3 courses of flat tiles and plastering 3 coats of Chm. to the ceiling and 3 coats of chunam to the top of the terrace	27 8 " Sqr	112
15.59	Squares of Wood oiling two coats	2 " " do	31
1618	Cubft of Filling in basement	" " 1/2 Cft	4
12.58	Squares of Flooring with Stone Slabs 3" thick with edges dressed square to be laid in mortar	15 " " Sqr	189
42	Rft of Stone steps	" 4 " Rft	11
60	do of Zinc pipes including clamps	" 9 " do	34
126	do of Teak wood shelves 1 1/4" thick 1 1/2 feet wide and brackets 3" square	1 8 " do	189
4	Pair of batten doors 4 x 8 with frames hinges, hooks cross bolts & padlocks	32 " " E	128
	Carried forward		3670

	Brought forward		3670	111
4	Pair of venetian windows 3 1/2 x 5 1/2 with frames & fittings	26 8 " E	106	
10	Glazed swing windows 3 x 1 1/2 with frames & fittings	7 " " E	70	
7.87	Squares of Verdigris green paint two coats	6 " " Sqr	47	
1	No of Marking board	5 " " E	5	
4	do Inventory boards	" 12 " do	3	
2	do Mint Ranges 6 1/4 x 2 1/2	200 " " do	400	
	Cost of fixing do complete		60	
			4361	
	Sundries		199	
	Total Amount of Estimate Rupees		4560	

Executive Engineer's Office
Bangalore 1st November
1869

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

By order
(Signed) W. R. Muesham Major
Dy. Asst. Dir. Mrs. G. L. M. Esq.

Pick. J. N. K. R. Captain R.E.
Ag. Superintending Engineer 5th Bn

No 156.

137
Superintg Engrs Office, 5th Dⁿ,
Cuddalore, 17th Oct^r 1870.

From

Captain R. A. Roberts C.E.,
Actg Superintending Engineer,
5th Division.

To,

The Secretary to Government,
P. W. Department,
Madras.

Sir,

I have the honor to forward,
for the sanction of Government, and
for entry in the Budget of 1871-72,
the undermentioned Military Works
at Bangalore, Viz.

1. Making certain alterations
and additions in the Dow-
-ble Wash House in the -
Race Course, Rupees—4700—
2. Constructing a Cook-room
for Recreation room &
Sergeants' Mess, Cavalry -
Barracks—4560—
3. Constructing a Water Trough
for Royal Horse Artillery
Barracks—665—

Enclosures—7.

3. Plans.
3. Estimates.
3. Specifications.

Bangalore.

5004.

10/17/70 224/10
Sum as above 20/10/70.

Abstract Estimate for

Constructing a Cook Room

for Recreation Room and

Sergeants' Mess Cavalry

Barracks.

Amount of Estimate Rs. 4560

12794

3

These estimates have been prepared at the desire of the General Commanding the Division, and have been approved by His Excellency the Commander-in-Chief.

I have the honor to be
Sir,
Your most Obedt Servt.

Richd Roberts
Capt. R.E.
Asst. Superintg. Eng^r, 5th Div.

15-1.

1870
 From Mr. J. H. ...
 The Suptg Engineer
 5th Division

To
The Secretary to Govt.
P. W. Department
Madras

Dated 17th }
Rec^d 25th } October 1870.

4.6 4.9 156

Encls

Military Works, Bangalore.

Forwarding for the sanction of Government

and for entry in the

Budget of 1871-72, three

Estimates for alterations &c.

the double Wash house on the

Race Course, for a new
 track & ann for Serjeants -

Cook room for Serjeants
 Mess Cavalry Barracks

Mess, Cavalry War
for a new Water Trough
L. B. 2nd Cavalry

for Royal Horse Artillery,
Barracks, Bangalore.

Baybicks, Bangor
No 2730-2735-14 North

6258

6. 1. 1970 D. 8.

5th Division, D. P. H.

Bangalore.

5004.

877 4234/0
From 14 Nov 710 to 255.

Abstract Estimate
for constructing a Water
Trough for Royal Horse
Artillery Barracks, Bangalore

12794

6
3
Amount of Estimate Rs 665-

5th Division, D. P. W.
Bangalore.

5004.

From 14th Nov 1910 to 25th Dec 1910
Specification to accompany
Plan and Estimate for con-
structing Water Trough for
Royal Horse Artillery
Barracks, Bangalore.

12794
Amount of Estimate Rs 665-
3



Specification to accompany
Plan and Estimate for Constructing water
trough for Royal Horse Artillery
Barracks Bangalore.

Amount of Estimate Rupees 665-
3

Excavation

The excavation for foundation to
be taken to such a depth as the Executive
Engineers may consider necessary, and the
bottom taken out perfectly level no Super-
fluous excavation to be allowed.

Foundation

Basement

Superstructure

The foundation basement and
superstructure of the water trough
to be of best bricks (9" x 4 1/2" x 2 1/2") in Chumam
(3 parts of sand to two of fresh and well
burnt lime) slaked on the work. The bricks
to be soaked in water before they are used
and English bond to be observed throughout.

Flooring

The ground of the water trough
to be excavated and levelled and the
flooring to consist of Cement 6" thick
and over this bed stone slabs having a
smooth surface not less than 3" thick
with the edges dressed square to be
laid

laid in mortar joints scraped and pointed with Cement.

The Coping to be of Stones 9" Stone Coping broad and 6" in thick with the edges dressed, around to be laid in chum and the top to be smoothly dressed.

The joints to be scraped out Plastering and the walls plastered outside with two Coats of Chumam 1st Coat to consist of one part of lime to $\frac{1}{2}$ of river sand well ground together and the 2nd Coat to be of 3 parts of lime to one of white sand well smoothed off.

The inside plastering with two Coats of Cement. Rough Coat to consist of one of Portland Cement one of fresh slaked lime and one of fine sand ground in a mill, and applied hot often the joints have been scraped out and the surface well watered.

Second Coat to consist of one of Portland Cement and half of fresh slaked lime ground together to a fine paste and applied hot; the surface.

to be smoothed and polished. The plaster to be kept in moist by sprinkling water over it till it is thoroughly hardened. No more should be prepared than can be immediately employed for without this precaution it will set in a very short time.

Colouring

The exterior of the water trough to be blue colour washed with two coats and to be approved of by the Executive Engineer.

Carthen ware pipe & plug.

Carthen ware pipe $\frac{1}{2}$ " diameter to lead from the corner centre of the trough at a depth of not less than 2 $\frac{1}{2}$ feet below the ground, to the ditch of the nearest road as shown in the plan. To carry off the water when the trough is employed, a plug to be provided to close the mouth of this drain pipe when the trough is to be filled.

Stone gelly and gravel.

The ground around the water trough to be gravelled with granite gelly 6" thick. The breadth of the gravelling to be 10 feet wide. The gravelling to be watered and well rammed.

Every

Every thing necessary for the neat and workmanlike completion of the work to be provided whether particularly mentioned in the specification or not.

All materials and workmanship employed to be of the best description and subject to the approval of the Executive Engineer of Bangalore who shall have the entire power of ordering the removal of any works with which he is dissatisfied.

The whole of the work to be carried out as per plan and Estimate according to dimensions mentioned thereon.

Any portion of the plan not understood can be referred to the Executive Engineer and no excuses of the details not being clearly explained will be admitted hereafter.

Ammin
Captain &

Exec Engg Office
Bangalore
19th Sept 1870
P.W.

Executive Engineer Bango
Rich Roberts Captain, R.E.
Actg. Superintending Engineer 5th Div

Public Works Department
No 2730

Proceedings of the Madras Government
Under date the 14th Nov 70
Read the following

From The Sup^r Engineer } H.E. No. 156 of 17th October 1870
5th Div

B

Ordered that the estimates received with this letter be forwarded for the sanction of the Gov^t of India.

The question of providing funds for the further works will be considered when the Budget comes before the Gov^t of India.

To The Sup^r Engr 5th Div
" Cont^r
" Milly Dept
Dated 15/11/70

Comd before the Gov^t of India
H.E. No. 2731
The Secretary to the Gov^t of India

I am directed by
the Right Honourable the
Gov^{rs} in Council to
submit for the sanction
of the Gov^{ts} of India
the accompanying plans
and estimates for the
construction of the
undermentioned works
connected with the
Race Course Barracks
at Bangalore, and
to state that they
have met with the
approval of His
Excellency the

235

Commander-in-chief

Alterations and additions to	Rs.
four double Wash Houses—	4700
Constructing a cook-room for	
Recreation-room and Sergeants'	
mess attached to Cavalry	
Barracks—	4580
Water-Trough for Royal Horse	
Artillery Barracks—	665

W. B.

Recd 15/11/70 with three
plans, three estimates and
three specifics -

+ 6 Bchs. received on the 13th Jan'y/71
with by G. H. 3043 A-15-12-70

Op 6234

Govt. of 1870 Madras.

PUBLIC WORKS.

To The Asst. Superintending Engr.
5th Division.

To The Secretary to the Govt. of
India

Dated

Recd.

Encl.

G. O. No. 2730-2731.

Nos. 255-256 & 257.

Military Works. Papering orders
in the letter from the Asst. Engr.
the 5th Division forwarding estimates
for certain Military Works at
connected with the Race Course Barracks at
Bangalore.

Letter forwarding for sanction
estimates for certain works
connected with the Race
Course Barracks at Bangalore.