

(1) Number of pages _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	352	(W)	Press Mis.
Dated	2-7-	1877.	

Not to be folded or roughly handled

12

GOVERNMENT OF MADRAS
PUBLIC WORKS DEPARTMENT.

2nd July 1877, No. 352 W.

Buildings and Roads.
Military Works.

Read the following paper —

No. 31. Proceedings of the Madras Government in the Military Department, dated 20th June 1877, No. 3,633.

From Brigadier-General H. O'CONNELL, Quartermaster-General, to the Secretary to Government, Military Department, dated head-quarters, Ootacamund, 2nd June 1877, No 194—4,125.

I HAVE the honor, by order, to forward, for the consideration and orders of Government, a plan and estimate (Rupees 2,700) for raising the height of the Stop Butts on the Infantry Ranges at Bangalore.

2 An estimate for Rupees 2,000 for this work was approved in Proceedings of Madras Government, No 953, dated 20th February 1877, but the Executive Engineer, in his letter, No. 223, dated 25th ultimo, enclosed, states that the original estimate did not provide for sufficient slope, and that, in the revised estimate, the new work has been removed to the rear of the butts, so that it may not be exposed to abrasion from the bullets. These alterations have caused the increase in the estimate.

3 If approved by Government, it is requested that the enclosures may be transferred to the Public Works Department for disposal.

APPROVED, in continuation of Proceedings of Government, No 953, dated 20th February 1877, and transferred to the Public Works Department for the consideration and orders of Government

(True Extract)

(Signed) J. MICHAEL, Colonel,
Secy. to Govt, Mily D.

No. 32. ORDER THEREON, 2nd July 1877, No. 352 W.

THE estimate of Rupees 2,700 for raising the height of the Stop Butts on the Infantry Ranges at Bangalore is sanctioned. His Excellency the Governor in Council remarks on the great difference between the approximate and the final estimate, and is not prepared to accept the explanation given by the District Engineer. A section was prepared in the first instance, and in so simple a work it would point almost to carelessness that sufficient slope was not at once provided for.

2 Government desire to impress upon the District Engineer the necessity of looking closer into the preparation of even approximate estimates.

3. The necessary funds are appropriated for the work from the Imperial Reserve of 1877-78 under head Military.

4 This sanction is registered as Imperial No 26 B of 1877-78.

(True Extract)

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

To the District Engineer, Bangalore
" Military Department
" Examiner of Public Works Accounts
Exd. E C Shunker.
Spare Copies

Note by His Grace the Govr.

I think the explanation of increase singularly unsatisfactory it amounts to a confession of carelessness in the preparations of the first. The first having been sanctioned. sanction the removing. the necessity has been proved -

(Sd) B. & C.
8/6/77.

Head of Service — Imperial
Fund — Ordinary
Class — Original works
Main Head — Military
Sub Head — European & Native Infantry
To be Carried out by the P. W. E.
Abstract Estimate No. 41 of 1877/78
District Bangalore.

Name of work — Raising the height of the Stop Butts on the Infantry Rifle ranges at Bangalore vide Distt. 2^d Mr. G. L. in Lr. Nos 546 and 5 dated 14th and 6th November & January 1876 & 1877 respectively G. O. No 345 of 23rd February 1877.

Quantity	Description of work	Rate Per	Amount	Total
<u>No 1 Stop Butt</u>				
7440	Cyts of Earth work	36 ^{rs}	116	
496	Sqrs of Surfing	2 ^{rs}	10	
<u>No 2 Stop Butt</u>				
21568	Cyts of Earthwork	39 ^{rs}	337	
484	Sqrs of Surfing	2 ^{rs}	10	
Carried Over				473

Quantity	Description of work	Rate	Amount	Total
	Brought forward		4.73	
	<u>No 3 Stop Butts</u>			
130,500	Cu. ft. of Earthwork	36	2039	
29.00	Sq. of Surfing	2	58	
			2570	
	Sundries		130	
	<u>Total Estimate Rupees</u>		<u>2,700</u>	

Henry Stuart
 District Engineer
 Bangalore

Dist. Engr's office
 Bangalore
 16th May 1877.

L.S.

By Order

J. A. J. S.
 J. A. J. S.
 J. A. J. S.

to 20 July 1877

Specification to accompany Plan and Estimate for raising the height of the Stop Butts on the Infantry Rifle ranges at Bangalore.

Amount of Estimate Rs. 2,700
The present Butts to be raised to a height of 20 feet with a side slope of $\frac{1}{2}$ to 1 for preventing accidents to people behind the Butts.

The back of the old Butts to be stepped, each step to be 1 foot broad and 1 foot deep for connecting the new layer of earthwork.

The proposed earthwork to be executed in layers of one foot well watered and rammed and formed into the required shape as shown on the plan.

The top of the Butts to be protected with a layer of good turfing beaten down and watered until it has taken root and has become firmly connected with the earthwork.

Henry Stuart
 Major R.E.
 District Engineer

Dist. Engr's office
 Bangalore
 16th May 1877

L.S.

Head of Service Imperial
 Fund Ordinary
 Class Original works
 Main Head Military
 Sub Head European and Native Infantry
 To be carried acc. by the P. H. L.
District Bangalore.

Detail Estimate Port of 1877/78
Name of work Raising the height of
the Stop Butts on the Infantry Rifle
ranges at Bangalore. Vide Memo. No. 54
of 14th Nov. 1876
and 76/77 respectively G. O. No. 345 of 23rd February 1877

Particulars of work	Measurement			Contents	Total
	sq	ft	in		
<u>No 1 Stop Butt.</u>					
<u>Earth work</u>					
Raising Stop Butt.	1	124	5 2	1240	
do Back	1	124	2 20	6200	
<u>Total Cft. of Earth work</u>					7440
<u>Surfing</u>					
Top of Butt.	1	124	4	496	
<u>Total Sq. of Surfing</u>					4.96
<u>No 2 Stop Butt.</u>					
<u>Earth work</u>					
Raising Butt. Back	1	121	5 22	13310	
do do	1	121	3 2 19 2	8258 4	
<u>Total Cft. of Earth work</u>					21568

Particulars of work

P. 11 D
JUN 77
1877

Contents

Surfing

Over Stop Butts 1 12 14 484

Total Lys of Surfing

No 3 Stop Butts

Earthwork

Raising 1 725 4 22 1/2 65250

Do 1 725 4 1/2 20 65250

Total Lys of Earthwork

Surfing

Over Butts 1 725 4 22 2900

Total Lys of Surfing

Lbs

18/5/77

40 22 July 77 Sols 31

Heads of Service Imperial

Fund. - Ordinary

Class. Original Works

Main-head. Military

~~Head~~

Sub-head Miscellaneous Military

~~Project of which the works form part~~

Work. Raising height of the Stop Butts
on the Infantry Ranges -

Amount. Rs 2700

To be carried out by the P. W. Department

Print in the margin of L.O. No 352 W of 2nd July 1877 -

GOVERNMENT OF MADRAS

MILITARY DEPARTMENT.

20th June 1877, No 3633.

Barracks and Buildings—Ranges.

Read the following paper:—

No. 355 *From Brigadier-General H O'CONNELL, Quartermaster-General, to Colonel J. MICHAEL, c s i, Secretary to Government, Military Department, dated Head Quarters, Ootacamund, 2nd June 1877, No 194-4125*

I have the honor, by order, to forward, for the consideration and orders of Government, a plan and estimate (Rupees 2,500) for raising the height of the Stop Butts on the Infantry Ranges at Bangalore.

2. An estimate for Rupees 2,000 for this work was approved in Proceedings of Madras Government, No 953, dated 20th February 1877, but the Executive Engineer, in his letter, No. 223, dated 25th ultimo, enclosed, states that the original estimate did not provide for sufficient slope, and that, in the revised estimate, the new work has been removed to the rear of the butts so that it may not be exposed to abrasion from the bullets. These alterations have caused the increase in the estimate.

3 If approved by Government, it is requested that the enclosures may be transferred to the Public Works Department for disposal.

No. 356 ORDER THEREON, 20th June 1877, No. 3633.

Approved, in continuation of Proceedings of Government, No 953, dated 20th February 1877, and transferred to the Public Works Department for the consideration and orders of Government.

(True Extract.)

Michael.

Colonel,

Secretary to Government.

To the Public Works Department, with six enclosures, " and note by His Grace the Governor. *and 10 s/copied*
" Quartermaster-General.

4823-2-77 No 345

P.W.D.

23 JUN 77

G184

To

Capt. of 11877 Madras.

MILITARY.

THE PUBLIC WORKS DEPARTMENT.

&c., &c., &c., &c.

Date 1 June, 20th.

Recd

G C, 20th June 1877, No 355

S.

JUNE.

Nos. 355-356.

Approving a plan and estimate, amounting to Rupees 2,700, for raising the height of the Stop Butts on the Infantry Ranges at Bangalore, and transferring the same to the Department Public Works for disposal.

8622 July 77 No 31

Cin 28-6-77

Bulding Dept.

No. 352W

Public Works Department

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

2 July 77

Read the following:-

Proceedings in the Military Dept (H. L. N. 3633 dated 22nd June 1877)

Under the estimate of Rs 2700 for raising the height of the Stop Butts on the Infantry Ranges at Bangalore is sanctioned. His Excellency the Governor in Council remarks on the great difference between the approximate and the final estimate, and is not prepared to accept the explanation given by the District Engineer. A section was prepared in the first instance, and in so simple a work it would point almost to carelessness that sufficient

sufficient slope was not at
once provided for.

2. Government desire to
impress upon the District En-
gineer the necessity of look-

ing closely into the preparation
of even approximate estimates

3. The necessary funds
are appropriated for the work

from the Imperial Reserve
of 1877/78 under Head Mili-

tary.

4. This sanction is re-
gistered as Imperial No. 26 B.

of 1877/78.

28-6-77

J. C. Banerjee ✓
P. H. Accounts ✓
Military Dept
No. 12-7-77

Copy
Govt. of 1877 Madras
PUBLIC WORKS.

To

Dated

Issued

Recd

Encl

G O, 2nd July 1877, No 352 W

Nos. 31-32

Infantry Ranges at
Bangalore. The estimate
of Rs. 2700 for raising the
height of the Slope Rents
on the —, sanctioned
with remarks and funds
appropriated.

Entered in Register