

(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.	2025	Press
B.P. No.		Mis.
Dated	17-7-	1875 195

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
17th July 1875.

No. 427. Read the following Proceedings of the Madras Government in the
Military Department, dated 17th June 1875, No. 2,874:—

ABSTRACT.—Approving estimate for the construction of a Rifle Range at
Mangalore.

IMPERIAL. MILITARY. NEW WORKS.
ABSTRACT ESTIMATE No. 10 of 1875-76.
SOUTH CANARA DISTRICT.
WORK.—Constructing a Rifle Range of 900 yards in length at Urva in Mangalore Taluk.

Quantities.	Description of Work.	Rates.	Amount.	Total.
	<i>Stop Butt and Platform.</i>	PER	RS. A. P.	RS. A. P.
998½ C. yards.	Mud revetment... ..	C. yd.	0 4 0	249 8 5
	Sundries and Superintendence...	Cent.	7 8 0	20 7 7
	Total	...	...	270 0 0
	<i>Marker's Butt.</i>			
1,329½ C. feet.	Mud revetment... ..	100	2 4 0	29 14 6
81 Sq. "	Flooring with laterite jelly in clay, well beaten with wooden rammers	100	1 4 0	1 0 2
37½ C. feet.	Woodwork wrought and put up.	C. ft.	1 12 0	65 8 3
168 Sq. "	Plastering with mud inside ...	100	1 4 0	2 1 7
297½ Sq. "	Tarring woodwork	100	1 8 0	4 7 3
			102 15 9	
	Sundries and Superintendence...	Cent.	7 8 0	7 0 3
	Total for one	...	...	110 0 0
	" for two	...	...	220 0 0
	<i>Ricochet Butt.</i>			
1,082½ C. feet.	Mud revetment... ..	100	2 4 0	24 5 9
42 Sq. "	Flooring with laterite jelly in clay, well beaten with wooden rammers	Sqr.	1 4 0	0 8 5
22½ C. feet.	Woodwork wrought and put up.	C. ft.	1 12 0	39 12 5
119 Sq. "	Plastering with mud inside ...	100	1 4 0	1 7 9
175½ Sq. "	Tarring woodwork	100	1 8 0	2 10 1
			63 12 5	
	Sundries and Superintendence...	Cent.	7 8 0	6 3 7
	Total for one	...	...	75 0 0
	" for two	...	...	150 0 0
939½ C. yards.	Cutting and levelling... ..	C. yd.	0 3 0	176 2 8
	Sundries and Superintendence...	Cent.	7 8 0	13 13 4
	Total	...	...	190 0 0
	Compensation for land... ..	...	...	830 0 0
	Total estimate	...	...	5,451 8 8
				6,281 0 0

MANGALORE,
15th May 1875.

(Signed) A. C. LAWFORD,
Officiating District Engineer.

(Signed) T. FFRENCH, Colonel,
Commanding Mangalore.

*Proceedings of the Madras Government, Public Works Department,
17th July 1875.*

No. 428.

ORDER THEREON, 17th July 1875, No. 2,025.

MILITARY WORKS, No. 11.

THE estimate is sanctioned. Rs. 5,451 of the amount being a Military charge the sum to be provided by the Public Works Department is Rupees 830. No funds are at present available. There seems no reason why the land should not be taken up at once.

(True Extract.)

Major, R.E.,

Offg. Joint Secretary to Government.

To the District Engineer, South Canara.
„ Controller of Public Works Accounts.
„ Military Department.

*Proceedings of the Madras Government, Military Department,
17th June 1875.*

Barracks and Buildings—Ranges.

Read the following papers:—

No. 255. From Brigadier-General A. HOWLETT, C.B., Quartermaster-General, to Colonel A. C. SILVER, Secretary to Government, Military Department; dated Head Quarters, Ootacamund, 3rd June 1875, No. 75-3531. With reference to G.O., 10th September 1874, No. 2967, I have the honor,

- 1 Letter from Officer Commanding, Malabar and Canara, No. 147, dated 26th May 1875.
- 2 Estimates, abstract and detailed.
- 1 Specification.
- 1 Letter, No. 62-106, from the Assistant Adjutant-General for musketry.
- 1 Letter, No. 21, from Officer Commanding, Mangalore.
- 3 Plans and Sections.

by order, to forward an estimate (Rupees 6,281) for a Rifle Range at Mangalore, and other documents, as per margin, and to request, that if approved by Government, the estimate may be sanctioned and transferred with the plans to the Public Works Department.

2. Rupees 5,451 of the sum is for compensation for land, which the Officer Commanding, Mangalore, seems to consider may be increased if the land is not taken up at once. The amount for compensation will have to be taken up by the Military Department, under G.O., 25th January 1870, No. 259, and ought not perhaps to have been entered in the Public Works estimate, but, leaving these details to be settled as may be necessary, His Excellency the Commander-in-Chief submits the whole project for the sanction of Government.

No. 256. *With report from the Controller of Mily. Accounts, 14th June 1875, B.*

No. 257. ORDER THEREON, 17th June 1875, No. 2874.

Approved.

2. The sum required for payment of the land to be taken up will be provided by the Military Department.

(True Extract.)

Ministerial
Secretary to Government.

To the Public Works Department, with six enclosures. *and 10 spare copies.*
„ Quartermaster-General, with three enclosures.
„ Controller of Military Accounts.

Erd. A. Raiff.

Detail of Work.	Number.	Measurements in feet.					Contents.	Total quantity of each description of work.
		Lenth.			Breadth or Thickness.	Height or Depth.		
		Each.	Total	Total Length.				
Plastering inside with mud.	1	24	24	24	"	7	168.	
Total plastering inside with mud L. ft.								168.
Carrying								
Carrying inside & out.								
Sides of planks	2	13	26	26	8 1/2	"	221	
Sides of joists	18	8 1/2	153	153	1/2	"	76 1/2	
Total carrying L. ft.								297 1/2
Reinforced Butt								
Mud treatment								
Wall	1	16	16	16	2	3 3/4	120	
Trapezoidal part	1	22	22	22	1 1/4	7 1/2	70 1/4	
Segmental do	1	22	22	22	area	7 1/2	165	
Flashing over joists	1	10	10	10	6 1/2	1/2	32 1/2	
Wedge	1	8	8	8	area	8	64	
Total mud treatment L. ft.								1382 3/4
Flashing ground	1	7	7	7	6	"	42	
Total flooring with latrite jelly in clay well beaten with wooden hammer								42
Wood work								
Beam	1	11 1/2	11 1/2	11 1/2	1/2	3 1/2	45 1/4	
Carried over								45 1/4

Detail of Work.	Number.	Measurements in feet.					Contents.	Total quantity of each description of work.	
		Length.			Breadth or thickness.	Height or Depth.			
		Each.	Total.	Total Length.					
Brought forward								45 1/4	
Joists	7	6 1/2	45 1/2	45 1/2	1/3	1/2	7 7/12		
Planks over joists	1	10	10	10	6 1/2	1/6	10 5/6		
Total wood work wrought & put up C. ft.									22 35/48
Plastering with mud									
inside	1	17	17	17		7	119		
Total plastering L. ft.									119
Tarring									
Tarring inside & out.									
Sides of planks	2	10	20	20	6 1/2		130		
Sides of joists	14	6 1/2	91	91	1/2		45 1/2		
Total tarring L. ft.									175 1/2
Cutting & levelling									
Cutting a wall	1	150	150	150	area	156 1/3	23418 2/3		
do elevated ground	1	150	150	150	13		1950		
Total cutting C. ft.									25368 2/3
or C. yds.									939 11/72
With Engineer's office									
Marginalia 15 May 1952									
Resp 14 th do									
Alfred									
off. District Eng									
J. Canara									

Specification Report to accompany
estimate for constructing a Rifle Range
of 900 yards in length at Sirva in
Mangalore Taluk.

The centre line of the Range shall
be laid out as shown on Survey Plan
and the ground levelled where necessary
for a breadth of 75 ft on each side of
the centre line.

The stop Butt shall be placed
as shown in the accompanying longi-
tudinal section. It shall be 150 ft long
and 5 ft broad at top, and 9 ft high
with a slope of 1 to 1 constructed of
earth well tamped in layers not
exceeding 9 inches in depth and neatly
trimmed to the above slope. The
excavation that forms in front of
this butt is not allowed in the
estimate as the earth thus obtained
is to be used for the embankment
of the butt to raise it to 4.8 ft.

187

D. P. W. South Canara District.

Detailed Estimate No. 1 of 1870-71.

Work.

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The markers and Recohet Butts shall be built according to the Revised Standard Plan and shall be placed relatively to the Butts as laid down in the same plan.

They shall be built of mud with a recess for the seats of the markers.

Over this recess, well tarred jungle wood beams and planking shall be laid for the roof resting on the mud wall, and on the wood work a thick layer of earth shall be placed.

Four platforms shall be placed two being at 500 yards and two at 600 yards as shown in the longitudinal section. It shall be 24 ft long

and 10 1/2 ft broad at top with slopes of 1 to 1 and constructed in

the same manner as specified

for stop Butts, those that are

at 500 yards shall be 5 feet

in height and that are at 600 yards

shall be 4 1/2 ft in height.

The whole work to be carried out to the satisfaction of the Range officer and District Engineer.

S. Canara Dist Engineer
Mangalore 15 May 1902
Recd-17-5-02

Al Saif

Off. District Engineer
South Canara

longitudinal section

C. 17

enc 1/3

P. Br. Dept. Mil. W. 18

Proceedings of the Madras Govt.

Read the following:

Pro: in the Mil. Dept. (H.E. No 2874 of 17 June 75 /
G.O. No: 2025 of 17 July 75

The estimate is sanctioned. Rs 451 of the amount being a Military charge the sum to be provided by the P.W. Dept is Rs: 830. No funds are at present available. There seems no reason why the land should not be taken up at once.

J.H.

62234/75
M. 4244/75

4344
O. 180
J. H. 180

CP-17 July 75 in B. A. 427

D. E. South Canara — 1 ✓
Comr. M. A. Ach. — 5 ✓
Mil. Dept. — 15 ✓

14 1/2
42 + 2 spare copies of mil. 80
1- 80 - 50

50 - 50 - 50 - 50 Aug 75

4244

Govt. of (1875) Madras.
PUBLIC WORKS.

5.

W. S. S. S.

Dated

Issued

Recd.

Encl.

G. O. 17 July 1875, No. 3225

Nov. 27 - 425

*Rifle Range at Mangalore.
The Estimate of Rs. 6,201
for the construction of a
sanctioned with remarks.
The land required to be
taken up at once.*

- 427/8