M.R.O. 1—77,006—8-6-37.

(1) Number of pages 24

(2) Date of repair 15-3-43

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 163. Press ~~Mis.~~

333·384.

Dated 18-1- 18 87.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
18th January 1867.

No. 333. Read the following letter from the Superintending Engineer, 3rd Division, to the Secretary to Government, Public Works Department, dated Camp, Cuddapah, 29th December 1866, No. 2,840 :—

1. I have the honor to submit, for the orders of Government, the accompanying correspondence, comprising the Proceedings of a Regimental Board, with Mr. Porter's remarks in the margin, my letter in reply, and a plan of the Butts as constructed. The work has been done in accordance with the standard plan, and agreeably to the plan which had been approved and sanctioned, the only mistake being that the Ricochet Butt has been placed at a distance of 236 instead of 240 feet from the Stop Butt.

2. I also submit a paper of remarks by the Inspector of Musketry; as regards paragraph 6, I beg to state that I did not construct Bland's design of Markers' Butts, not considering the ground suitable, as it could have been drained only at great trouble and expense.

3. As regards paragraph 8, I have the honor to inform you that the Stop Butt is 18* feet high, and I cannot but think that with a flag-staff 10 feet high above the Butt there need be no fear.

* *Vide* paragraph 6 of Standing Orders of Government of India, No. 73 of 1864, communicated with G. O. No. 149 of 16th Jan. 1865.

4. With reference to Captain Saunder's remarks, I would beg to draw the attention of Government to the documents attached to G. O. No. 226 of 24th January 1865, and to inform you that the design is according to the plan submitted by the Committee, of which he was President, and the one that he suggested should be selected.

From the Assistant Engineer in charge of Military Buildings Range, to the Superintending Engineer, 3rd Division, dated Bellary, 19th November 1866, No. 238.

I beg to forward a copy of the Proceedings of the Regimental Board, which inspected the European Infantry Rifle Butts; against each item of remark I have entered an explanation, and solicit your instructions regarding items Nos. 2 and 7. I would observe that there will be a saving on the estimate even if the required works are done.

From the Officer Commanding H. M.'s 76th Regiment, to the Deputy Assistant Quarter Master General, Ceded Districts, dated Bellary, 15th November 1866, No. 491.

1. I have the honor to forward the suggestions of a Regimental Board held on the New Rifle Ranges in accordance with instructions from the Major General, conveyed to me through the Brigade Major, and to request that any alterations as suggested, which do not affect the Government plan, may be carried out as soon as possible.

2. I would particularly call attention to the suggestions of the Board with regard to the Markers' Butt of the 1st Class Range.

Proceedings of a Regimental Board assembled at Bellary, on the 14th November 1866, by order of Colonel H. C. Brewster, Commanding 76th Regiment, to inspect and report upon the efficiency of the New Rifle Ranges for the use of the Regiment.

President.

Lieutenant-Colonel C. O'Donoghue, (I. C. H.) 76th Regiment.

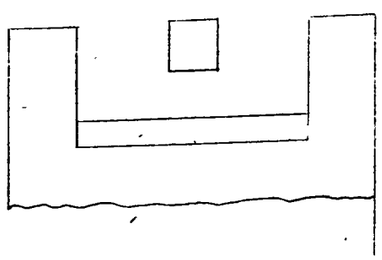
Members.

Lieutenant E. R. Bartleet, (I. C. H.) Assistant Instructor.
Lieutenant G. Alexander, (I. C. H.) 76th Regiment.

The Board having met on the ground pursuant to order, beg to make the following report:—

STOP BUTTS.—Correct.

These have been built as per standard plan. I have spoken to the Instructor of Musketry and pointed out to him the difficulty of cutting away the walls, and recommended that instead the seats should be brought more forward, with this suggestion he perfectly concurs, and the work will be done.



RICOCHET BUTTS.—The interiors are too deep to admit of the markers seeing sufficient ground down the Ranges, to detect Ricochets.

This may be rectified by rounding off the inner edges of the side walls, as shown in the diagram, in dotted lines.

This Butt is built at the exact angle laid down in the Standard Plan, if consequently it does not answer the intended purpose the fault is not with the Department Public Works; the cost of re-constructing it as now desired would be Rupees 100.

MARKERS' BUTTS.—The Butt on the left, or 1st Class Range, is totally out of position. It is too far back, and to the side, and built at such an angle to the line of fire, as to prevent accurate marking from the morning sun shining full upon the markers' faces. It is also twice too large.

Ranges.

Right or 3rd Class Range.

This will be done.

The firing point at 100 yards requires to be defined by a stone.

Do.

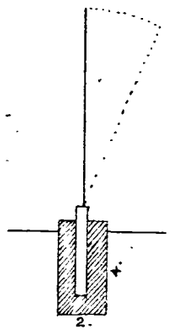
The platform at the 300 yards station is far too small. It should be increased to the size of those on the 1st Class Range

This work, it appears from the Quarter Master General's docket, will be done by prisoners from the Civil Jail.

The ground along the front of the three Butts should be cleared to an extent of 400 yards down the range of all prickly pear and other bushes, &c., and the large mound, now existing between the 3rd and 2nd Class Ranges removed, and the pit filled in.

The sides of the platforms will be revetted with burnt stone in mud.

The platforms on the 1st Class Range are liable to settle from rains, if not faced with stone.



A Teakwood pole about 15 or 20 feet high might be erected (having a pulley at the top and a rope) on which to hoist the flag, the rope and pulley if left there without a guard would surely soon be stolen, it is therefore advisable to have the foot of the pole inserted in a permanent socket, so that it can be removed at pleasure. See margin. (The cost would be about Rs. 50.)

The country in rear of the Butts being a great thoroughfare, a high signal staff, exhibiting the "Danger Flag," would be desirable, to show the public when Target Practice is going on.

(Signed) W. PORTER,
Asst. Engineer.
19*th November* 1866.

(Signed) C. O'DONOGHUE, Lieut.-Colonel,
President.
(,,) E. R. BARTLEET, Lieut., 76th Regt.
(,,) G. ALEXANDER, Lieut., 76th Regt.

3 B

Proceedings of the Madras Government, Public Works Department,
18*th January* 1867.

No. 2,223.

MEMORANDUM.

1. Forwarded to the Assistant Engineer, for information, with request that the alterations suggested by the Board may be complied with as far as admissible.

2. The Superintendent of the Jail has been requested to furnish a gang of prisoners to clear the ground, &c., along the front of the Butts.

To be returned.

By order,

(Signed) C. H. ABDY, Major,
For Dy. Asst. Quarter Master General,
Ceded Districts.

BELLARY,
15*th November* 1866.

Copy of a Docket from the Superintending Engineer, 3rd Divison, to the Officer in charge of Military Buildings Range, Bellary, dated 26th November 1866, No. 2,605.

(Your letter No. 238 of 19th instant.)

1. Requests to submit a correct plan with sections of the Butt on the left with Markers' Butt attached, as referred to in paragraph 2 of the Proceedings of the Regimental Board, in order that the matter may be laid before Government.

2. As regards the remaining proposals, approves of Mr. Porter's carrying them out as proposed; the pole, the undersigned thinks, need not be more than eight or ten feet above the top of the Butt.

(True Copy.)

(Signed.) A. S. MOBERLY, Major, R. E.,
Supt. Engr., 3rd Division.

From the Officer in charge of the Military Buildings Range, to the Superintending Engineer, 3rd Division, dated Bellary, 12th December 1866, No. 257.

Your docket No. 2,605, 26th ultimo. Begs to forward plan of the Stop Butt, Markers' Butt, and Ricochet Butt, as constructed, and to observe that the whole is in exact accordance with the plan furnished to this Office, excepting only that the 236 feet should be 240, the difference may have arisen in the measuring rods used. Most of the alterations required have been done, but the Flag Staff has not yet. I am delaying this, as I heard from the Major General Commanding the Division, that another report on the Ranges by the Inspector General of Musketry had been sent in, which would be forwarded to me, but up to date has not been received.

Remarks on Rifle Range of Her Majesty's 76th Regiment.

Three were asked for.
A. S. M.

1. There should only be *one* Stop Butt, instead of the three now made use of, only two Ranges being sanctioned for the use of a Regiment.

See plan sent and referred to in paragraph 3 of Captain Saunder's letter, and paragraph 2 of letter from Chief Inspector of Musketry attached to G. O. No. 226 of 24th January 1865.
A. S. M.

2. The Markers' and Ricochet Butts should be on both sides of the Range, inclined inwards at an angle of about 35,° and not in the centre as they are now on the 2nd and 3rd Class Ranges.

3. On the 1st Class Range the Markers' Butt is too much to the flank, in consequence of which the Markers being unable to see the hits on the targets from the inside sit under cover of the epaulment, a dangerous position.

According to the Standard Plan.
A. S. M.

4. The distances of the firing points should be marked off in *centre* of range every 50 yards from 100 to 900 yards with stone flags or flat bricks, having the number of yards cut on the surface let in perfectly *flush* with the ground, and not perpendicular as they are now.

This can be easily done.
A. S. M.

5. Where the ground is low at any of the firing points, platforms should be erected 30 feet long by 12 feet broad, and of sufficient height to enable the firers to see the bottom of the targets while kneeling.

This can be easily done.
A. S. M.

6. In accordance with the Musketry regulations of the Army, and recent orders of the Supreme Government, Blands' design of Markers' Butts should be followed, provided the ground is suitable. No Ricochet Butts are required.

7. As the Stop Butt of the 2nd Class Range is of the required length, viz., 180 feet, it is submitted that the range should be extended to 900 yards, and that the 1st and 3rd Class Ranges should be given up; or, the 1st Class Range could be made available by lengthening the Stop Butt, altering the position of the present Markers' Butt, constructing a second one and a Ricochet Butt on the right flank, provided the Superintending Engineer considers the ground unsuitable for Butts on Bland's system.

8. For the greater safety of the public, it is suggested that the Stop Butt should be 20 feet high, and that when Target Practice is going on a large red flag should be hoisted on a signal staff to be placed on top of the Stop Butt.

BELLARY,
6th December 1866.

(Signed) A. SAUNDERS, Captain,
Inspector of Musketry.

No. 334. ORDER THEREON, 18th January 1867, No. 163.

MILITARY WORKS, No. 19.

The Government approve of the works which are being carried out to meet the wishes of the Regimental Board appointed by the Officer Commanding the 76th Regiment to inspect and report upon the new Rifle Butts at Bellary. They observe that these additional works can be executed within the amount of the sanctioned estimate.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 3rd Division.
,, Controller of Public Works Accounts.
,, Accountant General.
,, Military Department.

Exd. S. T. Augustin.

No. 238 (1) 7.1⅝

To

The Superintending Engineer
3rd Division

Sir

I beg to forward a copy of the Proceedings of the Regimental Board which inspected the European Infantry Rifle Butts against each item of Remark I have entered an explanation and solicit your instructions regarding items Nos. 2 & 7 I would observe that there will be a saving on the Estimate even if the required works are done.

I beg to remain
Sir
Your Most Obedient Servant

Bellary
19th November 1866

W. Forbes
Assistant Engineer

Bellary District
Military Buildings Range

Bellary Dist. 20th Nov. 1866. Item 1

The Officer in charge of
Military Buildings
Range

The Superintending Engr
3rd Division

Dated 19th November 1866
Received "
No 238.
BR 52/2/66

Forwards a copy of the
Proceedings of the Regimental
Board & solicits instructions
regarding items Nos 2 & 7.

(2) No 491

Bellary 9th
15th November 1866

Sir

I have the honor to forward the suggestions of a Regimental Board held on the new Rifle Ranges in accordance with instructions from the Major General Conveyed to me through the Brigade Major and to request that any alterations as suggested which do not affect the Government plan may be carried out as far as possible

It would particularly call attention to the suggestions of the Board with regard to the Markers Butts of the 1st Class Range

I have &c

The
Dy Asstt Qr Master Genl
Ceded Districts

(Signed) H. C. Brewster
Major Lt Colonel
Bellary Commanding 76th Regt.

rds
flat

No. 2223

Memo.

Forwarded to the Assistant Engineer, for information with request that the alterations suggested by the Board may be complied with as far as admissible.

The Superintendent of the Jail has been requested to furnish a gang of Prisoners to clear the ground & along the front of the Butts.

To be returned

By order

Signed [illegible] Major
For D.A. Genl

Bellary
15th November 1866

No. 491.

Officer Commanding
Her Majesty's 76th Regiment

Forwards the suggestions of a Regimental Board held on the New Rifle Ranges in accordance with instructions from the Major General.

Bellary 15th November 1866.
Rec'd 15th Do

PW 5272/166

4 1115

Copy of a Docket from the Superintg Engineer 5th Division to the Officer in charge of Military Buildings Range Bellary dated 26th November 1866 No. 2605.

(Your letter No. 2386 of 19th inst.)

Request to submit a correct Plan with sections of the Butt on the left with Markers' Butt attached as referred to in Para 2 of the Proceedings of the Regl Board in order that the matter may be laid before Government.

As regards the remaining proposals & approval of Mr. Porter carrying them out as proposed: the pole the undersigned thinks need not be more than 8 or 10 feet above the top of the Butt.

True Copy

A. Abbey Major RE.
Superintg Engineer 5th Divn

PW 5272/68

(6) Remarks on Rifle Range

H. Qrs. 76th Regiment

1. There should only be one Stop butt, instead of the three now made use of, only two ranges being sanctioned for the use of a regiment.

There were orders for A.Ms

2. The markers and Orderlies butts should be on both sides of the range, inclined inwards at an angle of about 35° and not in the centre as they are now as this

See Plan sent & referred to in Para 3 of Capt Saunders' letter & Para 2 of letter from Chief Constable of Shrewsbury & Atcham L.G.O. 26 of 24th Jan. 1883 A.Ms

is the case on the 2nd and 3rd Class ranges.

3. On the 1st Class range the markers butt is too much to the flank in consequence of which the markers being unable to see the hits on the targets from the inside sit under cover of the Epaulement. a dangerous position.

According to the Standard Plan A.Ms

4. The distances of the firing points should be marked off in centres from range every 50 yards from 100 to 900 yds.

This can be easily done A.Ms

with stone flags or flat bricks having the number of yards cut on the surface let in perfectly flush with the ground and not perpendicular as they are now.

do

5. Where the ground is low at any

of

of the firing points. Platforms should be erected 30 ft long by 12 ft. broad and of sufficient height to enable the firers to see the bottom of the targets while kneeling.

6. In accordance with the Musketry Regulations of the Army and Militia of the Dominion of Canada Butts should be followed provided the ground is suitable. No ricochet butts are required.

7. As the Stop butt of the 2nd Class range is of the required height, viz: 18 ft. it is submitted that the range should be extended to 900 yards and that the 1st and 2nd class ranges should be given up, the 1st class range could be made available by lengthening the Stop butt, altering the position of the present Mantlet butt, constructing a second one and a ricochet butt on the right flank; provided the Superintending Engineer considers the ground unsuitable for butts on Bland's system.

8. For the public safety of the public it is suggested that the Stop butt should be 20 ft. high and that when target practice is going on a large red flag should be hoisted on a diagonal staff to be placed on top of the Stop butt.

Wm. Scott Capt.
Insp. of Musketry.

Belleau.
6th December 1866.

full upon the markers faces.
It is also three too large

Ranges

Right, or 3rd Class Range

The firing point at 100 yards required to be defined by a stone.

The Plat-form at the 300 yards Station is far too small & should be increased to the size of those on the 1st & 2nd Class Range.

The ground along the front of the three Butts, should be cleared to an extent of 400 yards down the Range, of all Prickly Pear & other Bushes &c. and the large mound now existing between the 3rd & 2nd Class Ranges removed and the pit filled in.

The Plat forms on the 1st Class Range are liable to settle from rains, if not faced with stone.

The Country in rear of the Butts being a great thoroughfare, a bright Signal Staff exhibiting the "Danger Flag" would be desirable, to warn the Public, when Target-practice is going on

Signed/ A Donoghue Lieut Colonel
Present

Signed/ C R Burtlett Lieute
76th Regiment

Signed/ G Alexander Lieute.
76th Regiment

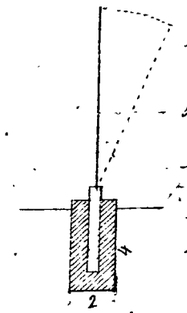
This will be done.

Do.

This work it appears from the Quarter Master Generals docket will be done by Prisoners from the Civil Gaol.

The Sides of the Plat-forms will be pierced with Iron stone in mud.

A Teakwood Pole, about 150 20 feet high might be erected (having a pulley at the Top & a rope) on which to hoist the Flag the rope and pulley if left there without a Guard would surely soon be stolen it is therefore advisable to have the foot of the pole inserted in a permanent Socket so that it can be removed at pleasure. Low margin (the cost would be about R 50—



Colonel
Deputy Engineer.

19 Nov 1866

No. 257
1866-67

From

The Officer in charge of
Military Buildings, Fange.

To,

The Superintending Engineer,
3rd Division.

Station
Dated
Received

Subject.

Sir,

I have the honor to forward Plans & Estimate of Repairs required to the Military Buildings at Fange.

2. The Estimate amounts to Rupees 2,336 - 4 - 0 only, and the Plans & Estimate are submitted for approval & sanction.

3. The Plans & Estimate are prepared by Lieutenant Colonel Donoghue, Commanding the Regiment, and I have the honor to request that the necessary sanction may be accorded.

I have &c.

Fort.

Rupees 2,336-4-0

Approved 19/12/66

Proceedings of a Regimental Board assembled at Bellary, on the 14th November 1866 by order of Colonel H. C. Brewster, Commanding 76th Regiment, to inspect and report upon the efficiency of the new Rifle Ranges for the use of the Regiment.

President

Lieutenant-Colonel A. Donoghue (I.C.H.) 76th Regiment

Members

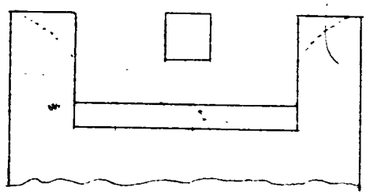
Lieutenant E. R. Bartleet (I.C.H.) Assistant Instr.

Lieutenant G. Alexander (I.C.H.) 76th Regt.

The Board having marked on the ground pursuant to order, beg to submit the following Report.

Stop Butts — Correct.

Ricochet Butts — The interiors are too deep to admit of the markers seeing sufficient ground down the Ranges, to detect Ricochets.



This may be rectified by rounding off the inner edges of the side walls, as shewn in the diagram, in dotted lines.

Markers Butts — The Butt on the 1st or 2nd Class Range is totally out of position. It is too far back, and to the side, and built at such an angle to the line of fire, as to prevent accurate marking from the morning sun shining

Dec 27-166

down the Range. These have been built, as per standard Plan. I have spoken to the Instructor of Musketry and pointed out to him the difficulty of cutting away the Walls. And recommended that instead the Seats should be brought more forward. With this suggestion he perfectly concurs & the work will be done.

This Butt is built at the exact angle laid down in the Standard Plan, & consequently it does not answer the intended purpose the fault is not with the P.W.D., the cost of reconstructing it as now desired would be Rs. 100.

Superintending Engineer's Office 3rd Div.
Camp Cuddapah
29th December 1866.

No. 2840.

From

The Superintending Engineer
3rd Division

To

The Secretary to Government
Public Works Department
Madras

Sir,

I have the honor to submit for the orders of Government the accompanying correspondence, comprising the Proceedings of the Regimental Board, with Lieut. Porter's remarks in the margin, my letter in reply, and a Plan of the Butts as constructed. The work has been done in accordance with the Standard Plan and agreeably to that Plan which had been approved and sanctioned, the only mistake being that the Ricochet Butt has been placed at a distance of 236 instead of 240 feet from the Stop Butt.

2 I also submit a paper of Remarks by the Inspector of Musketry:— as regards Para 6 I beg to state that I did not construct Blands design of Markers' Butts, not considering the ground suitable as it could have been drained only at great trouble and expence.

3 As regards para 8 I have the honor to inform you that the Stop Butt is 18' high and I cannot think that such a flag staff 10' high above the Butt there need be no fear.

4 With reference to Captain Saunders Remarks I would beg to draw the attention of Government to the documents attached to G.O. No. 226 of 24th January 1865

and

* Vide Para 6 of Standing Orders of Circle No. 70 of 1864 Communicated with G.O. No. 1490 of 16th January 1866.

and to inform you that the design is according to the Plan submitted by the Committe of which he was President and the one that he suggested should be selected.

I have the honor to be &c.

A. A. Humphreys Major Corps
Superintending Engineer 3d. Division

Re-24th Feby 65 - Nos 471 - 472
" 15th " " 311 - 312

1866 Dept
Pro: of Govt for January 67.
No 5272

From
The Superintg Engineer
3d Division

To
The Secretary to Govt
P. W. Dept

Dated 29th December 1866.
Rec'd 31 " "

No 2840
Enclosures 6-E

Forwards certain Correspondence Comprising the Proceedings of a Regimental Board with Mr Porter's Remarks Regarding the Ship Butt Markers Butt and Recocker Butt at Bellary -

No 333

No 163 - 18th Jany 1867.

c. 7th Jany 1867 R. 11th

2313

No 163

Public Works Department.

No 163.

PROCEEDINGS of the MADRAS GOVERNMENT

Under date the 18th January 1867.

Read the following

From The Superintending Engineer of the 3d Division (Here enter No. 2840 dated 29th Decr 1866)

The Government approve of the works which are being carried out to meet the wishes of the Regimental Board appointed by the Offg Commanding the 76th Regt to inspect and report upon the new Rifle Butts at Bellary - They observe that these additional works can be executed within the amount of the sanctioned estimate -

To Accts 3d Div
" Controller
" Asst Genl
" Mily Dept

Dept 19th January 1867

P. W. 1867. Department.

Pro: of Govt for January

No. 163

PROCEEDINGS OF GOVERNMENT of India

Dated 18 January 1867

Rifle Butts at Bellary.—

The additional works which are being carried out in connection with — to meet the wishes of the Regimental Board convened at that Station, approved.

No 333-334

c. 7th Jany 1867 Orl Ex