M.R.O. 1—77,006—8-6-31.

(1) Number of pages 18

(2) Date of repair

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public (Genl.) DEPARTMENT. Genl. D. 1658

G.O. No. 1468	Press / Mis.
25.5 Dated 15.10	18 58.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, from 11th to 17th June 1859.

No. 56. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer; to J. D. BOURDILLON, Esq., Secretary to Government, dated 3rd May 1859, No. 51.

With reference to Extract Minutes Consultation No. 2214, dated 21st October 1858, calling for a special report on the new Dragoon Barracks, &c., at Bangalore, as also a Plan of the Cantonment as required by the Government of India, I have the honor to forward the accompanying copy of a letter No. 350, dated 25th March 1859, from the Executive Engineer at that station together with three Plans.

No. 1. General Plan of the Cantonment.

No. 2. Skeleton Plan exhibiting the different roads, tanks and Government buildings, and proposed new fortified post with cross sections 1, 2, 3 and 4.

No. 3. Plan of proposed fortified post, enclosing the new Barracks.

2. The new Barracks were contemplated in 1852, and their erection was sanctioned in Extract Minutes Consultation (D. P. W. Military) No. 2161, dated 18th November 1856 but in Extract Minutes Consultation (Military Department) No. 64, dated 6th January 1857, revised Plans were called for, and in Extract Minutes Consultation (Military Department) No. 3555, dated 12th October 1857, were sanctioned for immediate execution, and the Barracks were commenced, the Executive Engineer states, on the 1st November 1857.

3. Their progress was stopped in January 1859, up to which time Rupees 56,020-4-5 had been expended on the work; Rupees 2,000 were then also due to Contractors for doors, windows, &c., the frames of which had been fixed; and Stores (principally timber) to the amount of Rupees 15,000 were ready in hand preparatory to the present working season.

4. The fortified post was an after consideration, and proposed by His Excellency the Commander-in-Chief with the view to affording a place of refuge in the Cantonment in case of a disturbance, sufficient for a small garrison of about 500 men together with Magazine, Sheds for Ordnance and Commissariat Stores; and 68 Pounders and 8 and 10 inch Howitzers were to be placed in position, commanding the whole Cantonment; the site selected, viz., that of the new Dragoon Barracks is high and with the exception of a spot (at a distance of one mile in a direct line) called the Arab lines at the southern extremity of the Cantonment on the high road from Bangalore to Salem, on a higher level by 15 feet is not commanded by any ground in its immediate neighbourhood; the whole is to be enclosed by an earthen parapet 10 feet in height, and ditch 10 feet deep, with stone Towers at the several angles and commanding points.

5. The construction of tanks has been sanctioned (Extract Minutes Consultation D. P. W. No. 530 21th March 1858) for the purpose of catching and retaining water on the terraced roofs of buildings, but these of course will afford a very insufficient supply, and water has been sought for and found in several places. A Committee on the supply of water generally, however, has been called for by the Commissioner of Mysore. Their report is not yet published.

6. The total amount sanctioned for the construction of the Barracks is Rupees 5,92,250, in addition to which will be required the cost for the erection of two Magazines and Sheds for Stores.

7. The preparation of the Estimate for the fortified post and Magazines is delayed pending the approval of the Supreme Government of the site and proposed alterations in the Cantonment.

8. The most important alterations contemplated in the Cantonment and connected with the new Barracks are

First.—On their completion, the removal of the Infantry into the present Cavalry Barracks.

Secondly.—Converting the present Infantry Barracks into an Arsenal, fortifying the same with small redoubts, raising a banquette within the walls, opening out loop holes where necessary and connecting them with the present Cavalry Barracks by an under-ground passage.

Thirdly.—Destroying the present Fort (which now contains the Arsenal) at some distance from the Cantonment with a large pettah intervening and commanding it, vide Plan II. Section 4.

Letter from Captain J. O. MAYNE, Executive Engineer, Bangalore; to Lieutenant-Colonel J. H. BELL, Chief Engineer, dated 25th March 1859, No. 350.

With reference to Extract Minutes of Consultation Public Works Department No. 2214, dated 21st October 1858, calling for a special report on the new Dragoon Barracks in course of construction at this station with Plans, &c., I have the honor now to forward three Plans.

1. A General Plan of the Cantonment.

2. A skeleton Plan shewing only the roads, tanks, and all the Government buildings in the Cantonment with the proposed new fortified post, and cross sections 1, 2, 3 and 4 of station.

3. A Plan of the proposed new fortified post enclosing the new Barracks.

2. It appears from the records found in my office and that of the Chief Engineer of Mysore that these new Barracks were contemplated many years ago (1852) and the building of them sanctioned in Extract Minutes of Consultation (P. W. D. Military) No. 2161 dated 18th November 1856, but in Extract Minutes of Consultation (Military Department) No. 64 dated 6th January 1857, revised Plans were called for and finally in Extract Minutes of Consultation (Military Department) No. 3555 dated 12th October 1857, were sanctioned for immediate execution and were commenced, I believe, 1st November 1857. They were stopped in January 1859 up to which time Rupees 56,020-4-5 had been actually expended on them, about Rupees 2,000 were owing to Contractors for doors, windows, &c., the frames only of which had been fixed and Rupees 15,000-0-0 worth of Stores (principally wooden) in hand ready for this working season.

3. The fortified post was I believe an after consideration and his Excellency Sir P. Grant's object was to have a fortified post so constructed and situated in the Cantonment as in case of a disturbance it might serve as a place of refuge and be held by a small garrison, say about 500 men leaving the main body of the Troops to act elsewhere as required. The principal Magazines and Sheds for Ordnance and Commissariat Stores are also to be within the fortified enclosure, 68 Pounders and 8" or 10" Howitzers to be put in position which would command the whole Cantonment. The site selected for this post was that of the new Dragoon Barracks the whole to be enclosed by an earthern parapet wall 10 feet high and ditch 10 feet deep with stone Towers at the several angles and commanding points for flanking purposes. The ground stands high and is not commanded by any ground in its immediate neighbourhood. The portion of Cantonment called the Arab lines as the Crow flies one mile distant stands 15 feet higher.

4. Water has been found in several places of a good quality but there is a peculiarity about the wells in Bangalore that after two or three years they become dry. Tanks have already been sanctioned to catch the water from the terraced roofs of the Barracks, full explanation of the principle of which will be found in Extract Minutes of Consultation (P. W. D. Military) No. 94 dated 19th January 1858. A Committee on the supply of water has been called for by Lieutenant General Sir M. Cubbon, Commissioner of Mysore, copy of whose report if ready in time will be attached to this, but as I am on the Committee I will not make any suggestions about the supply of water in this report.

5. The total amount sanctioned for the Barracks is Rupees 5,92,250-0-0. In addition to these will be required two Magazines and Sheds for Stores.

6. The cost of the Fortifications and Magazines I have not yet estimated, waiting till the Supreme Government have approved or otherwise of the site and proposed alterations in the Cantonment.

Proceedings of the Madras Government, Public Works Department, from 11th to 17th June 1859.

7. The most important alterations contemplated in the Cantonments and connected with these new Barracks

1st. On their completion the removal of the Infantry into the present Cavalry Barracks.

2ndly. Converting the present Infantry Barracks into an Arsenal, fortifying the same with small redoubts and raising a banquette within the walls, cutting loop holes where necessary, and connecting them with the present Cavalry Barracks by an under-ground passage.

3rdly. Destroying the present Fort which now contains the Arsenal. The Fort is a long distance from the Cantonment with a large pettah intervening and commanding it as seen in Plan No. II, Section No. 4, and requiring a detachment from the Cantonment for its protection.

Besides these there are new Staff Offices, consisting of Deputy Assistant Quarter Master General's Office, Deputy Assistant Adjutant General's Office, Pay Office, Picquet Room, now being built adjoining the Brigade Major's Office and Main Guard Room, which will also act as a place of refuge in times of difficulty.

No. 57. Ordered in consequence that the following letter be despatched.

From J. D. BOURDILLON, Esq., Secretary to the Government of Fort Saint George; to Lieutenant-Colonel H. YULE, Secretary to the Government of India, D. P. W., dated 15th June 1859, No. 1468.

Para. 1. With reference to the requisition of the Government of India conveyed in the letters noted in the margin, I am directed by the Honorable the Governor in Council to forward a letter* from the Chief Engineer, together with its enclosure from the Executive Engineer at Bangalore giving cover to three Plans, viz. of that Cantonment, of the roads, tanks and buildings, and of the proposed fortified post to enclose the new Barracks.

From Major Strachey 23rd Sept. 1858, No. 4606 para. 11.
From Captain Fraser 13th Jany. 1859, No. 192.
* Dated 3rd May 1859, No. 51.

2. I am desired to add that the report of the Commissioner of Mysore will be forwarded as soon as received.

No. 350. 54

Executive Engineer's Office

From

Captain J. O. Mayne

To

Executive Engineer Bangalore.

The Chief Engineer D. P. W.

Madras.

Sir,

With reference to Extract Minutes of Consultation P. W. D. No. 2246, dated 21st October 1858 calling for a special report on the New Dragoon Barracks in course of construction at this station with Plans &c. I have the honor now to forward 3 Plans.

1. A general Plan of the Cantonment.
2. A Skeleton Plan shewing only the Roads Tanks and all the Government Buildings in the Cantonment with the proposed new fortified Post, and cross Sections 1, 2, 3 & 4 of station
3. A Plan of the proposed new fortified Post enclosing the new Barracks.

2. It appears from the records found in my Office and that of the Chief Engineer of Mysore that these new Barracks were contemplated many years ago (1852) and the building of them sanctioned in Extract Minutes of Consultation (P. W. D. Military) No. 2161 dated 18th November 1856 but in Extract Minutes

Minutes of Consultation (Milty: Dept.) No. 64 dated 6th January 1857. Revised Plans were called for and finally in Extract Minutes of Consultation (Milty. Dept.) No. 3535 dated 12th October 1857. were sanctioned for immediate execution and were commenced I believe 1st November 1857 They were stopped in January 1859 up to which time Rupees 56020-4-5 had been actually expended on them, about Rs. 2000-- were owing to Contractors for Doors Windows &c. the frames only of which had been fixed and Rupees 15000-- worth of stores (principally wooden) in hand ready for this working Season.

3. The fortified Post was I believe on after consideration and His Excellency Sir. P. Grant's object was to have a fortified Post so constructed and situated in the Cantonment as in case of a disturbance it might serve as a place of refuge and be held by a small garrison say about 500 men leaving the Main body of the Troops to act elsewhere as required. The principal Magazines & Sheds for Ordnance and Commissariat Stores are also to be within the fortified enclosure. 68 Pounders and 8" or 10" Howitzers to be put in position which would command the whole Cantonment. The site selected for this Post was that of the New Dragoon Barracks the whole to be enclosed by an Earthern Parapet wall 10 feet high and ditch 10 feet deep with stone towers at the several angles and commanding points for flanking purposes. The ground stands high and is not commanded by any ground in its immediate neighbourhood. The portion of Cantonment called the Arab Lines as the Crow flies one mile distant stands 15 feet higher.

4. Water has been found in several places of a good quality but there is a peculiarity about the wells in Bangalore that after two or three years they become dry. Tanks have already been sanctioned to catch the water from the Terraced roofs of the Barracks full explanation of the principle of which will be found in Extract Minutes of Consultation (P. W. D. Milty.) No. 74 dated 19th January 1858. A Committee on the supply of water has been called for by Lieut. General Sir. Mo. Cubbon Commissioner of Mysore copy of whose report if ready in time will be attached to this. but as I am on the Committee I will not make any suggestions about the supply

supply of water in this report.

5. The Total amount sanctioned for the Barracks is Rupees 592250 — " — " In addition to these will be required two Magazines and sheds for Stores.

6. The cost of the fortifications and Magazines I have not yet estimated waiting till the Supreme Government have approved or otherwise of the site and proposed alterations in the Cantonment.

7. The most important alterations contemplated in the contonments and connected with the three New Barracks.

1st On their completion the removal of the Infantry into the present Cavalry Barracks.

2nd Converting the present Infantry Barracks into an Arsenal fortifying the same with Small redoubts and raising a Banquette within the walls cutting loop holes where necessary and connecting them with the present Cavalry Barracks by an underground passage.

3rd Destroying the present Fort which now contains the Arsenal. The Fort is a long distance from the Cantonment with a large Pettah intervening and commanding it as seen in Plan No II Section No 4. and requiring a detachment from the Cantonment for its protection.

Besides these there are new Staff Offices consisting of Deputy Asst. Quarter Master Generals Office, Deputy Asst. Adjt. Genls. Office, Pay Office Picquet Room now being built adjoining the Brigade Majors Office and Main Guard Room which will also act as a place of refuge in times of difficulty.—

I have &c.

Signed J. C. Haynes Captain
Executive Engineer Bangalore

Bangalore
25th March 59

True Copy

C. Hay Major
Supdg. Engineer Fort Cochi.

Military Department

Sir,

With reference to Sir H. M. Lees No 2211 of 24th October 1858, calling for Special Returns of the Barracks for Native Troops in the Bangalore Division of the Commissariat Department, I have the honor to forward the accompanying Plans.

I have &c.

(Signed)
J. Cliff Chief Engineer
& Secretary.

Copy of a Letter No 2211 dated 24th October 1858 from the Secretary to the Government of India, Military Department to the Chief Engineer & Secretary to Government of Fort St George.

Sir,

With reference to the Correspondence ending with your Letter No 1 of the 2d instant, I am directed to request that you will cause Plans to be prepared of the Barracks for Native Troops in the Bangalore Division of the Commissariat Department, and forward them to this Office.

I have &c.

(Signed)
H. Elliot
Secretary to Government

Fort St George
3d May 1859

No 251

Sir,

I have the honor to forward herewith the undermentioned Plans of Barracks for Native Troops in the Bangalore Division of the Commissariat Department.

No 1 — General Plan of the Cantonment.

No 2 — Skeleton Plan exhibiting the details of Barrack Quarters and Cookrooms.

No 3 — Plan of proposed Fortified Post for Artillery Park in the Cavalry Station.

No 4 — Plan of proposed Fortified Post for accommodation of the new Dragoon Barracks.

2 — The new Barracks were completed and occupied in 1852, and their protection was

Bangalore
3d May 1859

Enclosure in a letter from the Chief Engineer
To
The Secy to Govt F. W. D.

Dated 3d May 1859
Received
No 51
W 109/59

Copy of a letter from the Executive Engineer of Bangalore reporting on the New Dragoon Barrack in course of construction at Bangalore, and forwarding 3 Plans.

sanctioned in Sl: Mins: Cons: / Dpt. Military / No 2161 dated 18th November 1856 but in Sl: Mins: Cons: / Military Department / No 64 dated 6th January 1857 / revised plans were called for and in Sl: Mins: Cons: / Mn: Dy / No 3555 dated 12th November 1857, were sanctioned for immediate execution, and the Barracks were commenced the Executive Engineer states, on the 1st November 1857.

3. Their progress was stopped in January 1859 up to which time Rupees 56,020: 4- 5 had been expended on the work, Rupees 2000 were then also due to Contractors for Doors, Windows &c, the frames of which had been fixed; and Stores / principally timber / to the amount of Rs 15,000 were nearly in hand preparatory to the present working season.

4. The fortified work was on a plan consideration, and proposed by Lieut Stallard, the Commander in Chief with the view to affording a place of refuge in the Cantonment in case of a disturbance, sufficient for a small garrison of about 500 men together

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together with magazine, stores for Ordnance and Commissariat stores, and 18 Pounders and 8 & 10 Inch Howitzers were to be placed in position, commanding the whole Cantonment; the site selected viz that of the new Dragoon Barracks is high and with the exception of a / portion / at a distance of one mile in a direct line / called the Arab lines at the Southern extremity of the Cantonment on the high road from Bangalore to Salem on a higher level by 15 feet is not commanded by any ground in the immediate neighbourhood; the work is to be enclosed by a / ditch, the rubble is to be enclosed by an earthen parapet 15 feet in height, and ditch 15 feet deep; with Stone Towers at the Several Angles and Commanding points.

5. The construction of tanks has been sanctioned / Sl: Mins: Cons: Dpt: No 530 24th March 1858 / for the purpose of retaining and preserving water on the terraced / Portions of Buildings, but these of course will afford a very insufficient supply, and water has been sought for and found in several places. A Committee on the supply of water generally, however has been called for

for by the Commissioner of Mysore.
2. This report is not yet published.
6. The total amount sanctioned for the construction of the Barracks is Rupees 5,92,250 in addition to which will be required the cost for the erection of two Magazines and sheds for stores.
7. The preparation of the estimate for the fortified post and magazines is delayed pending the approval of the Supreme Government of the site and proposed alterations in the Cantonment.
8. The most important alterations contemplated in the Cantonment and connected with the new Barracks are:-
Firstly- On their completion, the Removal of the Infantry into the present Cavalry Barracks.-
Secondly- Converting the present Infantry Barracks into an Arsenal, fortifying the same with small Redoubts raising a Banquette within the walls, opening out loop-holes where necessary, and connecting them with the present Cavalry Barracks by an underground passage.-
Thirdly- Destroying the present Fort which now contains the Arsenal &c at some distance from the Cantonment with a large Pettah intervening and commanding it Vide Plan II Section 4.-

I have the honor to be,
Sir,
Your most obedient Servt
J. H. Dell Lieut. Col
Chief Engineer

To
The Secretary to
Government PWD

No 15 1st Genl
3rd May 1859
G.B.
A.S.D.C

157

Cons: 29th October/58 Nos 29-30
" 18th Nov.r/56 — 116 @ 120
" 6th Febr/57 — " 7 @ 9.
" 24th Nov.r — " 58 @ 61
" 30th March/58 — " 7 & 8.

P. Works 1859 Depart.t
No. 1091.
Rec.d of Govt. 15th June.
From The Chief Engineer
To The Sec.y to Govt. P.W.

Copy with Encls. &
3 Orig.l Plans to
the Govt. of India.
15 June/59.

No. 56.

6th June/59. R.B.

Rec.d 3rd May 1859
Rep. 24th

No. 51

No. 1468. 15th June 1869.

Submitted as called
for a report on the new
Barracks in course of
Construction at Bangalore
together with 3 plans of
the Cantonments &c.—

~~Extracts subjects of the Enquiries~~ will be forwarded as
soon as received.

Fort St. George
15th June 1859.

Public Works 1859 Dept.
Pro: of Govt 17th June.

No. 1468.

To
The Secretary to the
Govt of India. D. P. W.
Dt 15th June 1859.

From do dt 17th January 60 to Rs 1,28
in full: 20 Pcs 406.

From do 8th Jany 61 C. Rs. 149 in

Returns communications
with Certain Plans connected
with the Bangalore Cantonment
forwarded. Report of the
Mysore Commissioner will
be forwarded when received.

No 56 & 57.

6 Plans Rs 13