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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 21st 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.

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

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 earthen 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, to-

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

gether 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.

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

N^o 350.

From Executive Engineer's Office
Captain J. O. Mayne

To Executive Engineer Bangalore.
The Chief Engineer D. P. W. ...

Sir, Madras.
With reference to Extract Minutes of Consultation

P. W. D. N^o 2244, 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 showing only the Roads, Tanks,
and all the Government buildings in the Canton-
ment with the proposed new fortified Post, and
cross Sections 1, 2, 3 &c 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 (1832) and the building of them sanctioned
in Extract Minutes of Consultation (P. W. D. Military)

N^o 2161 dated 18th November 1856 but in Extract

Minutes

Minutes of Consultation (Military Dept^y) N^o 64 dated 6th January 1857. Revised Plans were called for and finally in Extract Minutes of Consultation (Military Dept^y) N^o 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 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. Lyne'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 Earthen 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) N^o 94 dated 19th January 1858. A Committee on the supply of water has been called for by Lieut General Sir. M. Lubbock 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 have not been estimated waiting till the Superior Government have approved or otherwise of the site and proposed alterations in the Cantonment.

7. The most important alterations contemplated in the cantonments and connected with these are Barracks.

1st in 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 retables 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 Petta intervening and commanding it as seen in Plan N^o II Section N^o 1. and requiring a detachment from

The

The Cantonment for its protection.

96

Besides these there are new Staff Offices consisting of Deputy Asst^t Quarter Master General's Office, Deputy Asst^t Adjut^t Genl^t Office, Pay Office Picquet Room now being built adjoining the Brigade Major's Office and Prison Guard Room which will also act as a place of refuge in times of difficulty.

True Copy

I have

Bringing along }
25th March/59 }

Signed J. O. Munn, Captain
Executive Engineer Bangalore

True Copy

W. J. Munn Major
Sup^y Engineer S. C. Circle.

Central Office of
Port St George
3rd May 1859

N^o 51

From

The Chief Engineer

To

The Secretary to Government

Sir

With reference to G. O. Com.
N^o 2214, dated 21st October 1858, calling
for a special report on the new Barracks
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 N^o 350, dated 25th March
1859, from the Executive Engineer at
that Station, together with 3 plans
N^o 1. General plan of the Cantonment
N^o 2. Sketch plan exhibiting the differ-
ent Roads, Tanks and Government
Buildings, and proposed new
fortified Park with Cross Section N^o 3
N^o 3. Plan of proposed fortified post,
enclosing the new Barracks.
2. The new Barracks were contempla-
ed in 1852, and their erection was
sanctioned

Military

Enc 4
1 Copy of letter
3 Plans.

Enclosure in a letter

from the Chief Engineer

To

The Secretary to Govt. P. O.

Dated 3rd May 1859

Received

N^o 51

May 1859

Copy of a letter from
the Executive Engineer of
Bangalore reporting on the
state of progress of construction of
the new Barracks, and forwarding
3 Plans.

sanctioned in S. & M. Cons. / Military / No. 2161 dated 18th November 1886
but in S. & M. Cons. / Military Department / No. 64 dated 6th January 1887 Revised plans were called for
and in S. & M. Cons. / M. D. / No. 3588 dated 12th November 1887, were sanctioned for immediate execution, and the Barracks were commenced the Executive Engineer, Station, on the 1st November 1887.

3. Their progress was stopped in January 1889 up to which time Rs. 50,200-4-5 had been expended on the work. Rs. 2000 were then also due to Contractors for Doors, Windows etc., the frames of which had been fixed, and stores principally timber to the amount of Rs. 15,000 were ready in hand preparatory to the present working season.

4. The fortified post was on 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

137
together with magazine, stores for Ordnance and Commissariat stores, and 18 ^{Prussians} 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 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 / S. & M. Cons. D. No. 1530 24 March 1888 / for the purpose of collecting 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

for by the Commissioner of Mysore.
This report is not yet published.

6. The total amount sanctioned for the construction of the Barracks is Rs. 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 hexagonal towers and bastions within the walls, opening out loop holes where necessary and connecting them with the present Cavalry Barracks by an underground passage.

Thirdly.

157
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.

1st Lt George
3rd May 1859

H. B.
A. S. S. C.

I have the honor to be,
Sir,

Your most obedient servant

J. H. Bell Esq. Lieut. Col.
Chief Engineer

To
Mr Secretary to
Government P. B.

N. 1468 17 P.M.D.

Lieutenant Colonel H. Gule
Secretary to the Government of India

Sir,

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 ^{three} cover to ^{the} Plans ^{of} that Cantonment, ~~at that station~~, and of the roads, tanks and buildings, ^{and} of the proposed fortified post to enclose ^{including} the new Bannacks.

2. I am desired to add that the report of the Commissioner of Mysore

to Civil
Duff
16
with 3 orig.
Plans
No

From Major Stanley 23rd Sept^r 1858
N. 4606 from 11
From Capt. Fraser 13th January 1859
N. 172.

[Signature]

[Initials]

[Initials]

Cons. 29 Dec 1858 of 29-30
" 18 Nov 58 - 116 0120
" 6 Feb 59 - 17 0099
" 24 Oct 58 - 158 061
" 30 March 58 - 178.

29 Nov 1859 Dehradun
to the Chief Engineer
at the Chief Engineer
at the Chief Engineer
at the Chief Engineer

Copy with Encls. 3
to Civil Plans to
the Civil Plans to
13 January 59.

12. 1. 3. 1. May 1859
N. 51
N. 1468, 15th Dec 1859.

The Enclosures are called for a report on the new 13 Bannacks in our way of construction at Bangalore together with 3 plans of the same from the Chief Engineer.

66 June 1859

~~which subject of the Dry~~
~~marks~~ will be forwarded as
received.

AA

Fort St. George
15th June 159 -

Public Works 1859-Depth
Pro: of Govt 17th June.

N. 1468.

To
The Secretary to the
Govt of India. D.P.
D^y 15th June 1859.

From 20th Jan^y 60 to 1st Feb^r
infra: 20th Feb^r - 406.

From 20th Jan^y 61 C. N. 149 in

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

N. 56457.

6 June 1859