

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2283 205-207	Press ~~Mis.~~
Dated 8-8-	1865

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
8th August 1865.*

Read the following papers:—

No. 205. From Lieutenant-Colonel E. A. FOORD, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Salem, 6th July 1865, No. 759.

SIR,

1. The Executive Engineer at Bangalore has forwarded to me an estimate of Rupees 650, for "filling an excavation at the old Dragoon Barracks for a cistern in connection with the Ulsoor Water Project." As the cistern would not have supplied any of the Barrack buildings, it was intended to raise the water from it into another cistern by a wind engine. As such an arrangement was not considered desirable, the work was stopped before I took charge of the Division, and the excavation is now being filled in.

2. The work was commenced under the orders of Lieutenant Pennycuik, and is included in his estimate for the Ulsoor Water Works. The estimate was returned by the Superintending Engineer for revision, and it is to be regretted that this work was commenced in anticipation of sanction. The cost of filling in the excavation is much increased by the earth previously taken out having been carted to a distance.

3. The cost of this work can, with the approval of Government, be met from the amount allowed in the Budget for the Ulsoor Water Works.

MEMORANDUM.

The Superintending Engineer of the 5th Division is requested to explain under what authority Lieutenant Pennycuik commenced the excavation of the cistern, and what sanction he had for the erection of a wind engine for raising water from it into another cistern.

FORT SAINT GEORGE,
8th July 1865.

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

No. 206. From Lieutenant-Colonel E. A. FOORD, R. E., Superintending Engineer, 5th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Bangalore, 24th July 1865, No. 951.

SIR,

- 1 Copy of Memorandum from Lieutenant Pennycuik, dated 12th July 1865.
- 1 Do. of letter from do., dated 14th July 1865.
- 1 Do. from the Acting Superintending Engineer, No. 726, dated 1st August 1864.
- 1 Letter from the Superintending Engineer, No. 759, dated 6th July 1865.

1 With reference to your endorsement in my letter of the 6th July, No. 759, I have the honor to forward a Memorandum and letter of Lieutenant Pennycuik's and a letter from the Acting Superintending Engineer of the Division.

- 2. Lieutenant Pennycuik's letter was written in reply to one from Captain Tulloch, pointing out to him that the sanction of Government was accorded* to the original project, and that the work done by

* No. 486, dated 12th February 1863.

Captain Goddard was executed on that sanction.

... carted to a distance

*Proceedings of the Madras Government, Public Works Department,
8th August 1865.*

MEMORANDUM.

1. The Superintending Engineer, 5th Division, (the late Captain Gahagan), in his letter No. 726 of the 1st August 1864, approved of the arrangements referred to in Colonel Foord's Memorandum No. 813, of the 11th instant, and ordered them to be embodied in the revised project for the Ulsoor Water Supply, which I was then preparing, and which was forwarded to the Superintending Engineer on the 16th September 1864.

2. The work was then commenced in anticipation of sanction to the whole project, in the same way as all the work yet executed in connection with the project has been done.

3. There was of course no formal sanction to this particular portion of the project any more than for the rest of it.

BANGALORE,
12th July 1865.

(Signed) J. PENNYCUICK, Lieutenant, R. E.,
Assistant Engineer.

(True Copy.)

(Signed) E. A. FOORD, Lieut.-Colonel, R. E.,
Superintending Engineer, 5th Division.

From Lieutenant J. PENNYCUICK, R. E., Assistant Engineer, to Captain H. TULLOCH, R. E.,
Executive Engineer, dated Bangalore, 14th July 1865.

SIR,

1. In reply to your letter No. 267 of the 13th instant, I have the honor to observe that I was perfectly aware that the sanction of Government had been accorded to the original project for the Ulsoor Water Supply, but the work executed up to the date of my leaving the station in September last, was executed, not upon the estimates contained in the original project, but upon those afterwards forwarded (in April or May 1864, I think the latter) by Captain Goddard, which were embodied in the revised project sent in by me in September of the same year.

2. These estimates differed materially from those of the original project, and as they have never yet been submitted to Government, I think that my statement "that all the work yet executed in connection with the project has been done in anticipation of sanction" is not incorrect.

(True Copy.)

(Signed) E. A. FOORD, Lieut.-Colonel, R. E.,
Superintending Engineer, 5th Division.

From Captain T. E. GAHAGAN, R. E., Acting Superintending Engineer, 5th Division, to the
Executive Engineer, Bangalore, dated Salem, 1st August 1864, No. 726.

SIR,

1 Map.

1. Your No. 90 of the 23rd ultimo and its enclosure (which latter is herewith returned).

2. I have attentively considered the suggestions made in your letter, correcting the inaccuracies in Captain Tulloch's project, with reference to the supply of water for the old Dragoon Barracks, and approve of them. I request you will be good enough to embody them in your revised estimate.

3. I have reported to Government, that the original estimate (Rupees 72,000) for the Ulsoor Water Supply Project will probably be exceeded by 200 per cent. I have also requested them to inform me to what extent they have ordered iron piping from England.

(True Copy.)

(Signed) E. A. FOORD, Lieut.-Colonel, R. E.,
Superintending Engineer, 5th Division.

*Proceedings of the Madras Government, Public Works Department,
8th August 1865.*

No. 207.

ORDER THEREON, 8th August 1865, No. 2,283.

MILITARY WORKS, No. 14.

1. From these papers it appears that Lieutenant Pennycuick, on finding that the Reservoir, which it is proposed to con-

struct on the top of the Ulsoor Rock for the supply of a portion of the Cantonment of Bangalore with water, was not of sufficient elevation to command one of the Ranges of the old Dragoon Barracks, conceived the idea of constructing, for the special accommodation of that building, a lofty cistern, into which the water should be lifted by a wind engine to the additional height required for its delivery to the Barrack. This idea having met with the approval of the then Superintending Engineer, the late Captain Gahagan, Lieutenant Pennycuick commenced the excavations for the cistern in August last, although that work neither formed a part of the project sanctioned by Government, nor was provided for in the original estimate; and, as an expenditure of Rupees 650 is now required to fill in those excavations, considerable progress must have been made with them before they were stopped by Captain Wood, who very properly disapproved of the employment of auxiliary power when the engine and pumps, which had been supplied for erection on the Ulsoor Rock, had ample power to force water at once to any height that might be necessary for its delivery at all the points where it is required to be discharged.

2. Lieutenant Pennycuick's proceedings were altogether irregular, and his explanations are not satisfactory. Had he not shown that his very ill-considered modifications of a plan which had already been sanctioned by Government had the countenance of the late Superintending Engineer, the Government would have been under the necessity of holding him pecuniarily responsible for the unauthorized outlay originally incurred on the excavations for the cistern, and for the cost of now filling them up.

3. With these remarks the Governor in Council sanctions the estimate of Rupees 650 submitted by Colonel Foord, and authorizes its amount to be charged to the Budget allotment for the Ulsoor Water Project.

(True Extract.)

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

To the Superintending Engineer, 5th Division.
" Controller of Public Works Accounts.

Exd. S. T. Augustin.

No 759

Superintg. Eng^rs Office 5th Divⁿ
Salem, 6th July, 1865.

From,

Lieut Col. E. A. Ford M.R.

Superintg. Engineer 5th Division

To

Colonel C. A. For M.R.

Secretary to Government A.P.W.

Sir,

The Executive Engineer at Bangalore has forwarded to me an estimate of Rs 650, for "filling an excavation at the Old Dragoon Barracks for a cistern in connection with the Ulloor Water Project." As the cistern would not have supplied any of the barrack buildings, it was intended to raise the water from it into another cistern by a Wind Engine. As such an arrangement was not considered desirable the work was stopped before it took charge of the Division, and the excavation is now being filled in.

2. The work was commenced under the orders of Lieutenant Pennycook, and is included in his estimate for the Ulloor Water Works. The estimate was returned by the Superintending Engineer for revision, and it is to be regretted that this work was commenced in anticipation of sanction. The cost of filling in the excavation is much increased by the earth previously taken out having been carted to a distance. The

3. The cost of this work can, with the approval of Government, be met from the amount allowed in the Budget for the Water Works.

I have the honor to be,
Sir,
Your most Obedt Servt

Edwrd Sted Esq.
Superintg. Engr 5th Regt

Camp 2nd Regt

At Works Dept
Camp 2nd Regt
8th July 1865
To the Superintending Engineer
to be returned with the Division.
Secretary to the
At Works Dept
Camp 2nd Regt
8th July 1865
To the Superintending Engineer
to be returned with the Division.

The Superintending Engineer of the 5th Division is requested to explain under what authority Lieutenant Pennycook could the execution of the system and what sanction he had for the erection of a tunnel engine for raising water from it into the system.

Edwrd Sted

From
Lieut J. Pennycook R.E.

anticipation of sanction" is not incorrect.
I have the honor to be,
Signed J. Pennycook R.E.
Asst. Engineer
[True Copy]

1865

Edwrd Sted Esq.
Super: Regt 5th Regt

old Dagon Barrack

re.
13th
I was
ment
t for
excited
in
the
spot
d
by
rd
in
trial
do
to
at
con-
in

3* The cost of this work can, with the approval of Government, be met from the amount allowed Water Works.

1865 Dept
P.O. of Govt of Bengal
From No. 2497
The Supg. Engineer
5th Bn

To
The Secretary to
Government B.M.

Dated 6th July 1865.
Recd 8th
No. 757.
27/68/65

Stating that the Executive Engineer Bangalore has sent an estimate, Rs 650, for filling an excavation for a cistern in connection with the Mysore Water project, which was provided for in Sir J. Pennycuik's estimate and as the cistern is not now found desirable, requesting that the above estimate may be charged to the work, if approved by Government.

2283 - 8th Aug 1865

Camp 2
To the Superintending Engineer
to be returned with a reply.
e. 29 July 1865
Secretary to Govt
Sub Secretary

The Superintendent of the Mysore Division is requested to issue a sanction for the execution of the work for filling the cistern of water from it with water.

From
Sir J. Pennycuik B.E.
Assistant Engineer
To
Captain H. Tulloch B.E.
Executive Engineer, Bangalore.

Sir,
In reply to your letter No. 207 of the 13th instant I have the honor to observe that I was perfectly aware that the sanction of Government had been accorded to the original project for the Mysore Water Supply, but the work executed up to the date of my leaving the station in September last was executed, not upon the estimates contained in the original project but upon those afterwards forwarded in April or May 1864, I think the latter by Captain Goddard, which were embodied in the revised project sent in by me in September of the same year.

These estimates differed materially from those of the original project, and as they have never yet been submitted to Government, I think that my statement "that all the work yet executed in connection with the project has been done in anticipation of sanction" is not incorrect.

I have the honor to be,
Yours faithfully,
J. Pennycuik B.E.
Asst. Engineer
(true copy)

Bangalore
14th July, 1865

Edmond L. B. B.E.
Sup: 2283 5th Bn
old Dagon Bangalore

Memorandum.

The Superintending Engineer
5th Division / the late Captain Calhoun
in his letter No 726 of the 1st August 1864
approved of the arrangements referred to
in Colonel Fords' Memorandum No 813 of
the 11th instant, and ordered them to be
embodied in the revised project for the
Ussoor Water Supply, which I was then
preparing, and which was forwarded
to the Superintending Engineer on the
16th September 1864.

The work was then commenced
in anticipation of sanction to the whole
project, in the same way as all the
work yet executed in connection with
the project has been done.

There was of course no formal
sanction to this particular portion of the
project any more than for the rest of
it.

Signed John Pennington
Asst Engineer

Per Copy 1

Bangalore
12th July 1865.

Ed Ford M.C.B.
Asst Engineer 5th Div

99/8962/116

Proc. 8th Aug 1864 No 206

The Superintending Engineer
5th Division

No 726.

Supg: Engrs Office 5th Flr
Calcutta, 1st August 1872.

From

Captain J. H. Gahagan R.E.
As: Superintg: Engineer 5th Flr

To

The Executive Engineer
Bangalore.

Sir,

Enclosed.
1 Map.

1. Your Memo of the 23rd Ultimo and its
enclosure which latter is herewith returned.

2. I have attentively considered the
suggestions made in your letter, correcting
the inaccuracies in Captain Tulloch's pro-
ject with reference to the supply of water
for the Old Dragoon Barracks and approve
of them. I request you will be good
enough to embody them in your revised
estimate.

3. I have reported to Government, that
the original estimate (£72,000) for the
Old Dragoon Barracks water supply project will proba-
bly be exceeded by 200 per cent.
I have also requested them to inform
me to what extent they have ordered
iron piping from England.

I have
Signed J. H. Gahagan Capt
As: Engrs Office 5th Flr

[Inclined]

Ed. D. M. Col. R.E.
Supg: Engineer 5th Flr

89/89/2466

Rev. 8. Aug 1872 J. H. G.

1895. Superintg. Engrs Office 5th Div.
Bangalore, 24th July, 1895.

From Smtt Col. R. A. Ford R.E.
Superintg. Engrs 5th Division

To Colonel C. A. Ford R.E.
Secretary to Government A.W.

Enclosures 4. Sir,
With reference to your endorsement on my letter of the 6th July No 759, I have the honor to forward a memorandum and letter of Lieutenant Pennycook and a letter from the Acting Superintending Engineer of the Division. Lieutenant Pennycook's letter was written in reply to one from Captain Tulloch pointing out to him that the sanction of Government was accorded to the original project and that the work done by Captain Goddard was executed on that sanction.

I have the honor to be,
Sir,
Your most Obedt Servt

E A Ford Lt Col. R.E.
Supg. Engineer 5th Div.

Copy of memo from
Smtt Pennycook
dated 12th July 1895.
1 Copy of letter from
dated 14th July
1895.
1 Copy of letter from
the Engr. Supg. Engrs
No 726 dated 1st
August 1894.
1 Letter from the Supg.
Engineer No 759 dated
6th July 1895.

* No 486 dated
12th February 1893.

24/07/95

Over 8:15/15-18/11/2006

Supervising Engineer
5th Division

P.W.D.

no 2283

Proceedings of the Madras Government
Under date the 8th July 1865

Read the following

From the Superintendent 5th Div. 14th July 1865 No. 759

From - to - to -

Forwarding Lieutenant

Pennycook's explanation
of the circumstances under
which he commenced the
Cistern at the old Dargah
Dance Ro

N. 2. 24th July/65 No. 951

From these papers it
appears that Lieutenant
Pennycook, on finding
that the Reservoir which
it is proposed to construct
on the top of the Ulsoor
Rock for the supply of a
portion of the Cantonment
of Bangalore with water
was not of sufficient
elevation to command one
of the Ranges of the
old Dargah Dance Ro,

the

will

Recd 1865 8th July
P.W.D. 2968

From
the Deputy Engineer
13th July 1865

to the Deputy
Government Agent

Recd 24th July 1865
No. 206

As per
substance

Forwarding Superintendent
Pennycook's explanation of
the circumstances under
which he commenced the
Cistern at the old
Dargah Dance Ro.

No. 206

C. 292 29 Aug 1865 - 03. 29 Aug 1865
no 2283 - 8th July 1865

conceived the idea of constructing, for the special accommodation of that building, a lofty cistern, into which the water should be lifted by a Wind Engine to the additional height required for its delivery to the Barrack. This idea having met with the approval of ^{the} the Superintending Engineer, ^{the late Captain Salomon} Lieutenant Pennycook commenced the excavations for the cistern in August last, altho' that work neither formed a part of the project sanctioned by Govt, nor was provided for in the original Estimate; and, as an expenditure of Rs 650 is now required to fill in those excavations, considerable

progress must have been made with them before they ~~were~~ were stopped by Captain Wood, who very properly disapproved of the employment of auxiliary power when the Engine and Pumps, which had been supplied for erection on the Mission Rock, had ample power to force water at once to any height that might be necessary for its delivery at all the points where it is required to be discharged. Lieutenant Pennycook's proceedings were altogether irregular, and his explanations are not satisfactory. Had he not shown that his very ill considered

modifications of a plan
which had already been
sanctioned by Government
and had the countenance of the
late Superintending Engineer,
the Government would
have been under the necessity
of holding him pecuniarily
responsible for the un-
authorized outlay originally
incurred on the excavations
for the Asylum, and for the
cost of now filling them
up.

With these remarks
the Governor in Council
sanctions the Estimate of
Rs. 650 submitted by
Colonel Poore and
authorizes its amount to
be charged to the Budget

allotment for the Ulsoor
Water Project.

A.B.

To
The S. D. 5th B.
Cdr ✓

Sept 9th August

(11)

90/ 1865 Departo
Pro: of Govt for Augt

No. 2283
Pro: of the M. Govt
D. 18 Augt/65

Sanctioning the estimate
amounting to Rs 650 for
filling an excavation at
the Old Dargah Bazaar
Bangalore for a cistern
in connection with the
Ulsoor Water Project.

No. 208 @ 207