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# MADRAS RECORD OFFICE.

**Government of Madras.**

*Public Works* **DEPARTMENT.**

|                    |               |
|--------------------|---------------|
| G.O. No. 2947 + 48 | Press<br>Mis. |
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| Dated 5. 6.        | 1865.         |

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,  
5th October 1865.*

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Read the following papers:—

No. 106. From Major J. H. M. SHAW STEWART, R. E., Under Secretary to Government, Public Works Department, in charge of Public Works Store Department, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Chepauk, 24th August 1865, No. 490.

SIR,

- 1 Indent in duplicate.
- 2 Sketches marked A. and B. in duplicate.
- 1 Letter from Superintending Engineer, 5th Division, No. 1,109.

1. I have the honor to forward, for submission to Government, the accompanying emergent Indent in duplicate for iron pipes and other articles required

from England by the Superintending Engineer, 5th Division, for completing the Ulsoor Water Supply Project at Bangalore.

No. 1,109, dated 9th August 1865.

2. In his letter forwarding the above requisition, Lieutenant-Colonel Foord states that he went over the indent

with the Executive Engineer Bangalore, and after a careful scrutiny he considers that it contains all that is required for the distribution of water to the Barracks, and not more than is necessary of the different sizes of pipes, &c., breakages and other contingencies being taken into consideration. The descriptions of the articles are taken from the catalogues of the best makers, so that no difficulty should arise in procuring them.

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, 9th August 1865, No. 1,109.

SIR,

- 1 Indent in triplicate.

1. I have the honor to forward an indent in triplicate, for iron pipes and other articles

required from England for the Ulsoor Water Works at Bangalore.

2. The Executive Engineer was directed in letter No. 64, dated 15th of May, from the Secretary to Government, Department Public Works, to make this Indent complete, so that no further indent might be necessary, and it has been so prepared as far as possible.

3. While I was at Bangalore last month, I went over the Indents with the Executive Engineer, and after comparing the lengths of the different sizes of pipes and the numbers of the other articles, with the plans of the Station and Barracks, altered a few of the items. The indents contain all that is required for the distribution of the water to the Barracks, and not more than is necessary of the different sizes of pipes, &c., breakages and other contingencies being taken into consideration.

4. It will be observed that one of the items is a stand pipe fifty feet high. According to the original scheme the water was to be pumped up into a reservoir on the top of the rock, whence after being filtered it was to descend to the cisterns at the Barracks. By this arrangement the old Dragoon Barracks would not have been supplied as they stand on too high ground. It was afterwards proposed by Captain Tulloch to raise the water by a stand pipe, and so command every part of the station that was to be supplied.

5. This arrangement involves the filtering of the water at the bottom of the rock, and certainly has some advantages over the other. The details are not yet ready to be laid before Government in a complete form, but as the pipes and other articles indented for will be wanted, whichever plan

*Proceedings of the Madras Government, Public Works Department,  
5th October 1865.*

of raising the water is adopted, I have thought it better not to delay submitting the Indents. The plans and estimates will certainly be ready before the pipes can be received from England.

6. The descriptions of the articles are taken from the Catalogues of the best makers, and so no difficulty should arise in procuring them.

No. 107. From Major J. H. M. SHAW STEWART, R. E., Under Secretary to Government, Public Works Department, in charge of Public Works Store Department, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Chepauk, 31st August 1865, No. 528.

SIR,

1 Copy of Indent.

With reference to G. O. dated 24th August 1865, No. 2,463, communicating letter from the Government of India,

directing that copies of all special Indents for supplies from London may be forwarded, for record in the Office of the Accountant General, Public Works Department, I have the honor to forward, for submission to the Government of India, copy of the special Indent dated 24th August 1865, for stores required from London for completing the Ulsoor Water Supply Project at Bangalore.

No. 108. 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 Usur, 27th September 1865, No. 1,704.

SIR,

1 Sketch Map.

1 Letter from Executive Engineer.

I have the honor to inform you in reply to your Memorandum No. 164, of the 1st of September, that the Indent

forwarded with my letter of the 24th of August, provides for the distribution of water to the present Infantry and Artillery Barrack and other Military buildings at Bangalore. I beg to forward the sketch map called for, showing the different lines of pipes from the Ulsoor tank.

From Captain H. TULLOCH, R. E., Executive Engineer, Bangalore, to Lieutenant-Colonel E. A. FOORD, R. E., Superintending Engineer, 5th Division, dated Bangalore, 22nd September 1865, No. 477.

SIR,

1. In accordance with the instructions conveyed in your Memorandum, No. 1,461 of the 6th September 1865, I have the honor to forward a sketch map showing the lines of pipes to be laid down from the Ulsoor tank to the different Barracks.

2. If the piping already indented for is supplied, every Barrack will be furnished with water, the Race Course Barrack, the Horse Artillery Barrack, the Old Cavalry Barrack, the New Arsenal and the New Commissariat Godowns will also be supplied with water. The minor distribution at some places will not, perhaps, be perfect, but there will be nothing like inconvenience felt at any Barrack.

(True Copy.)

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

*Proceedings of the Madras Government, Public Works Department,  
5th October 1865.*

No. 109. ORDER THEREON, 5th October 1865, No. 2,947.

ACCOUNT, No. 14.

Ordered that the Indent submitted with this letter be forwarded to the Right Honorable the Secretary of State for India, and, with reference to Colonel Dickens's letter No. 702A, dated 3rd August 1865, that a copy be furnished to the Government of India for record in the Office of the Accountant General, Public Works Department.

Ordered that the following letter be sent :—  
(Here enter No. 2,948, dated 5th October 1865.)

(True Extract.)

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

To the Officer in charge of the Store Department.  
" Superintending Engineer of the 5th Division.

" *Contracted of P. W. S.*

Exd. S. T. Augustin.

31  
PUBLIC WORKS DEPARTMENT.  
FORT SAINT GEORGE,  
5th October 1865.

No. 110.

No. 2,948.

From

COLONEL C. A. ORR, R. E.,  
*Secretary to the Government of Fort Saint George, P.W. D.,*

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,  
PUBLIC WORKS DEPARTMENT.

SIR,

ACCOUNT, No. 15.

As requested in your letter No. 543A, dated 3rd August 1865, I have the honor, under the orders of His Excellency the Governor in Council, to forward a copy of a special Indent which has been transmitted by this Government to the Right Honorable the Secretary of State for India for iron pipes and other articles urgently required for the works under execution for supplying the buildings on the Race Course, and other parts of the Cantonment of Bangalore, with water from the Ulsoor tank.

I have the honor to be,  
Sir,

Your most obedient servant,

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

Exd. S. T. Augustin.

N<sup>o</sup> 1704-

Superintending Engineer Office 5<sup>th</sup> D.  
Usur 27<sup>th</sup> September 1865

From, Lieut Colonel C. A. Ford R.E.,  
Superintending Engineer 5<sup>th</sup> D.

To, Colonel C. A. Orr R.E.,  
Secretary to Government  
D. P. M.

Sir,

I have the honor to inform you  
in reply to your Memo: N<sup>o</sup> 164 of the  
1<sup>st</sup> of September that the indent as  
forwarded with my letter of the  
24<sup>th</sup> of August provides for the distribu-  
tion of water to the present Infantry  
and Artillery barracks and other  
military buildings at Bangalore.  
I beg to forward the Sketch map,  
called for, showing the different lines  
of pipes from the Alluvion Tank.

I have the honor to be  
Sir,

Your most Obedient Serv<sup>t</sup>

I A Ford Lieut Col R.E.  
Superintending Engineer

N<sup>o</sup> 477

Executive Engineer's Office  
Bangalore 22<sup>nd</sup> September/65

To,

The Superintending Engineer  
5<sup>th</sup> Division

Sir,

In accordance with the instructions conveyed in your Memo: N<sup>o</sup> 1461 of the 6<sup>th</sup> September/65, I have the honor to forward a sketch map showing the lines of pipes to be laid down from the Ulsoor Tank to the different Barracks -

If the piping already indented for is supplied, every Barrack will be furnished with water. The Race Course Barrack, - the Horse Artillery Barrack, - the old Cavalry Barrack, the new Arsenal and the new Commissariat Godowns will also be supplied with water. The minor distribution at some places will not perhaps be perfect, but there will be nothing like inconvenience felt at any Barrack -

I have read  
/Sgt/ H. Tulloch Capt. R.E.  
Exec. Engineer, Bangalore

/True Copy/

El Mnd. Sinto Coll. R.E.

Superintending Engineer  
5<sup>th</sup> Divn

Copy in as letter to England  
of 10: October 1865

Mr 3481/65

No. 1109

Superinty: Engrs Office 5<sup>th</sup> Div<sup>n</sup>  
Salem, 9<sup>th</sup> August 1865.

From

Smith Col. R. A. Ford M.E.

Superinty: Engineer 5<sup>th</sup> Division

To

Colonel C. A. Orr M.E.

Secretary to Government A.P.W.

Sir,

Enclosures  
1 Indent in  
Triplicate.

I have the honor to forward an  
indent in triplicate, of Iron pipes and  
other articles required from England  
for the Ulloor Water Works at Bangalore.

2. The Executive Engineer was directed  
in letter No. 64 dated 15<sup>th</sup> of May from  
the Secretary to Government A.P.W. to make  
this indent complete, so that no further  
indent might be necessary, and it has  
been so prepared as far as possible.

3. While I was at Bangalore  
last month, I went over the indents  
with the Executive Engineer, and after  
comparing the lengths of the different  
sizes of pipes and the numbers of the  
other articles, with the plans of the  
Station and barracks, altered a few  
of the items. The indents contain all  
that is required for the distribution of  
the water to the barracks, and not more  
than is necessary of the different sizes  
of pipes &c., breakages and other contingencies  
being taken into consideration.

Yr

4. It will be observed that one of the items is a stand pipe fifty feet high. According to the original scheme the water was to be pumped up into a reservoir on the top of the rock, whence after being filtered it was to descend to the cisterns at the barracks. By this arrangement the old Aragon barracks would not have been supplied as they stand on too high ground. It was afterwards proposed by Captain Foulloch to raise the water by a stand pipe, and so command every part of the station that was to be supplied.

5. This arrangement involves the filtering of the water at the bottom of the rock, and certainly has some advantages over the other. The details are not yet ready to be laid before Government in a complete form, but as the pipes and other articles indented for will be wanted, whichever plan of raising the water is adopted I have thought it better not to delay submitting the Indents. The plans and Estimates will certainly be ready before the pipes can be received from England.

6. The descriptions of the articles are taken from the Catalogues of the best makers, and so no difficulty

Public Works Store Department  
Canton 31<sup>st</sup> August 1865

N<sup>o</sup> 528

From

Major J. & M. Shaw Stewart R.E.  
Under Secretary to Government P.W.D.  
in charge of P.W. Store Department

To  
Colonel Charles A. Orr R.E.  
Secretary to Government P.W.D.  
Fort George

Sir

In reference to G.O. dated 24<sup>th</sup> August 1865, N<sup>o</sup> 2463, Communicating letter from the Government of India, directing that copies of all special Indents for supplies from London may be forwarded, for record in the office of the Accountant General P.W.D. I have the honor to forward for submission to the Government of India copy of the special Indent dated 24<sup>th</sup> August 1865, for stores required from London for completing the Ulsoor Water supply project at Bangalore.

I have the honor to be

Sir  
Your most obedient servant  
J. Maclellan  
Under Secretary to Government P.W.D.  
in charge

Copy in as letter to England  
of 10:20 to 10:45 of 10:15

10:45 1865-20  
to: of Good for each  
No. 3821

Trans  
The Office in charge  
of the 34th St. Dept  
of the Secretary to Government  
Public Affairs Dept  
of the 34th St. Dept

Date 21/2 August 1865  
Re: 10:20 to 10:45 of 10:15  
No. 528  
Enc. 3

Forward copy of the  
Special Instructions for  
receiving from London for  
completing the above order  
which is being at Bangalore.  
for submission to the Govt  
of India -

2100.2947-182948.5720/65

2100.2947

Public Works Store Department  
Chepauk 24<sup>th</sup> August 1865

10

From Major J. H. M. Shaw Stewart Esq.  
Under Secretary to Government  
in charge P.W. Store Department

To The Secretary to Government  
P.W.D.

Encls: I have the honor to forward  
1. Indent no 3781  
2. Sketches marked  
A & B in dupli for submission to Government the  
1. letter from dated  
Aug 5<sup>th</sup> 1865, accompanying Emergent Indent in  
duplicate for iron pipes and other  
articles required from England by the  
Superintending Engineer 5<sup>th</sup> Division, for  
completing the Moosur water supply  
project at Bangalore.

In his letter forwarding the above  
requisition, Lieut Colonel Poore states  
that he went over the Indent with  
the Executive Engineer Bangalore, and  
after a careful scrutiny he considers  
that it contains all that is required  
for

N<sup>o</sup> 490

Copy in letter to Eng. Secy  
of 10<sup>th</sup> Oct 1865 of 1865.

Q M 1865-2 of Indent  
No 3781  
of 10<sup>th</sup> Oct 1865  
from, 1<sup>st</sup> 1865

The Chief Engineer  
5<sup>th</sup> Division

The Secretary to  
Government P.W.D.

Dated 27<sup>th</sup> Sept 1865  
Received 27<sup>th</sup> Sept 1865

Enc: 2

Forwarding of Indent  
map of Moosur project  
from the Moosur cantt

12108

2022947-42948-5-2022948/65

for the distribution of water to  
the barracks, and not more than  
is necessary of the different sizes  
of pipes &c. breakages and other  
contingencies being taken into con-  
sideration. The descriptions of  
the articles are taken from the  
Catalogues of the best makers, so  
that no difficulty should arise  
in procuring them.

I have the honor to be  
Sir

Your Most Obedt Servant  
Mantelmont Major R.E.  
Under Secretary to Governor & Co.  
Madras P.W. Store Dept.

61.  
difficulty should arise in procuring  
them.

I have the honor to be  
Sir,

Your most Obedt Servt.

E. A. Ford Esq. Col. R.E.  
Superintg. Engineers S. P. W.

Copyd per D

11

To the Hon<sup>ble</sup> Secy of the Navy  
No. 452 of 11th August 1865

Copy in a letter to England  
of 10: October 1865

11  
No. 454

From  
The Hon<sup>ble</sup> Secy of the Navy  
to the Hon<sup>ble</sup> Secy of the Navy  
Government of India

Recd 9th August 1865  
No. 1109

Forwarding to the  
Hon<sup>ble</sup> Secy of the Navy  
for the Hon<sup>ble</sup> Secy of the Navy  
at Bangalore.

M. S. S. S.

Public Works

12

No 2947  
Proceedings of the Madras Government  
Under date the 5<sup>th</sup> ~~Sept~~ <sup>Oct</sup> 1865  
Read the following

From the Officer in charge  
of Public Works Stores.

Forwards for submission to  
Govt. an emergent Indent for  
iron pipes and other articles  
required from England by the  
Supty Eng<sup>r</sup> S<sup>r</sup> for completing  
the ulsoor Water supply project  
at Bangalore.

(Here enter 24<sup>th</sup> August 1865  
No 490)

- No - 31 - - No - 528

From the Supty Eng<sup>r</sup> S<sup>r</sup> 1/2

Forwards sketch map showing  
the different lines of  
pipes from the ulsoor

14<sup>th</sup> 27<sup>th</sup> Sept 1865. No 1704.

Ordered that the indent

submitted with this letter  
be forwarded to the Right  
Honorable the Secretary of  
the work contemplated  
for the supply of the Carnatic State for India, and,  
ment. The Supt<sup>r</sup> Eng<sup>r</sup> should with reference to Colonel  
have stated what extent of Dickenson's letter No 702  
work would be completed dated 3<sup>rd</sup> August 1865  
by this indent - he says  
that this indent contains a copy - be furnished  
all that is necessary for to the Government of  
the distribution of the water India for record in  
to the Barracks - but does this  
include the present Indent the Office of the Accountant  
Barracks which is to be handed over to the Comm<sup>r</sup> General  
the present Indent Barracks which is to be made universal

Copy in attention to England  
of 10: October 1865.

937  
1865  
10/10/65  
The Officer in charge  
of the Public Works Stores  
at Bangalore

Under 25<sup>th</sup> August 1865

From the Officer in charge  
of Public Works Stores  
at Bangalore

Forwards for submission  
to Govt. an emergent indent  
for iron pipes and other  
articles required from  
England by the Supty Eng<sup>r</sup>  
S<sup>r</sup> for completing the  
ulsoor Water supply  
project at Bangalore

No 106

C. 305, 20 Aug 1865

100, 2947 - 82948 - 55, 20 Aug 1865



Copy in a Letter to England  
of 10: October 1865.

1865 Depart  
Proc. of Govt for Oct

N: 294702948  
Proc. of Govt

Of 5 Oct/65  
Recd.

Proc. of Govt  
for Oct

1866 @ 110.

22 Oct 1865. P. 3125