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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. <u>1785</u>	Press
<u>313-314</u>	~~Mis-~~
Dated <u>14</u> — <u>6</u> — <u>18</u> <u>47</u>	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
14th June 1867.*

No. 313. Read the following letter from the Superintending Engineer, 5th Division, to the Secretary to Government, Department Public Works, dated Virdachellum, 28th May 1867, No. 37 :—

1. When it was proposed to pump the water from the Ulsoor tank direct to the cisterns at the barracks, instead of to a reservoir on the top of the rock, as in the original scheme, it was intended to have a stand-pipe on the top of the rock.

2. Now that the pipes are about to be laid, the Executive Engineer has raised the question whether a stand-pipe is really necessary. Stand-pipes have been erected at many water-works in England, but I find on reference to the only book on the subject that I have access to at present, that they are now considered unnecessary, and an air vessel (with which the engine at the Ulsoor tank is provided) is thought to answer the purpose equally well.

3. None of the buildings at Bangalore are intended to be supplied directly by the engine. If they were, there would be advantages in having a stand-pipe. The engine has, in this case, to fill a certain number of reservoirs, whence the minor distributions will be by gravitation. I therefore consider that the stand-pipe may be dispensed with, and the cost of erecting it saved. If this is approved, I will instruct the Executive Engineer to proceed with the laying of the pipes.

No. 314. ORDER THEREON, 14th June 1867, No. 1,785.

MILITARY WORKS, No. 21.

1. As it appears to Government that, by dispensing with the stand-pipe on the top of the Ulsoor rock and mak-

ing the engine force water direct into the various cisterns for distribution, work which might be performed by the power of gravitation will be thrown upon the engine, and thereby increase the strain upon it, as well as the cost of pumping, His Excellency the Governor in Council is not disposed to accede to the Executive Engineer's proposal.

2. By the use of a stand-pipe, the duty devolving on the engine is simply that of raising water a certain height, whereas, if it have to force the same quantity of water through a great extent of piping, although to a much less height, the work imposed upon it will be enormously increased by the immense resistance of friction in the pipe. For this reason, the stand-pipe should be erected.

(True Extract.)

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

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

Exd. S. T. Augustin.

No. 37.

Superintg Engr's Office 5th Div.
Vindachellum 28th May 1867.

From,

The Superintending Engineer
5th Division.

To
The Secretary to Government,
D. P. W.

Sir,

When it was proposed to pump
the water from the Ulsoor Tank
direct to the Columns at the barracks,
instead of to a reservoir on the top of the
rock, as in the original scheme, it was
intended to have a stand pipe on the
top of the rock.

2. Now that the pipes are about to be
laid the Executive Engineer has
raised the question whether a stand
pipe is really necessary. Stand
pipes have been erected at many
water works in England, but I find
on reference to the only book on
the subject that I have access to at
present, that they are now considered
unnecessary.

unnecessary and an air vessel
(with which the Engine at the Ulsoor
tank is provided) is thought to answer
the purpose equally well.

3. None of the buildings at Bangalore
are intended to be supplied
directly by the engine. If they were,
there would be advantages in having
a stand pipe. The Engine has in
this case to fill a certain number
of reservoirs, whence the main or
distributions will be by gravitation.
I therefore consider that the stand
pipe may be dispensed with
and the cost of erecting it saved.
If this is approved I will instruct
the Argentine Engineer to proceed
with the laying of the pipes.

I have the honor to be
Sir,
Your most obedt. Servt.
E. A. Ford Lt Col. R.E.
Superinfg. Engineer.

©. 3rd June 1867 O. 4th

212313

212 1783 14th June 1867

Noting that a
stand pipe on the
Moor Dock is
not required

No. 37
Enclomence

Noted 28th May 1867
No. 37 212313

Noted 28th May 1867
No. 37 212313

Noted 28th May 1867
No. 37 212313

Noted 28th May 1867
No. 37 212313

Public Works Department.

212 1783

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 11th June 1867

Read the following

From The Super Engineer &c &c

(Here enter No. 37 dated 28th May 1867)

As it appears to Government that, by dispensing with the stand pipe on the top of the Moor Dock and making the Engine force water direct into the various Cisterns for distribution, work which might be performed by the power of gravitation, will be thrown upon the Engine, and thereby increase the strain upon, as well as the cost of pumping, His Excellency the Governor in Council is not disposed to accede to the Executive Engineer's proposal.

(By)

W. M.

2. By the use of
a hand pipe, the duty
devolving on the En-
gine is simply that
of raising water to
certain height, whereas,
if it were to force
the same quantity of
water thro' a great ex-
tent of piping, altho'
to a much less height,
the work imposed upon
it will be enormously
increased by the im-
mense resistance of
friction in the pipe -
For this reason, the
hand pipe should be
erected.

W. B.

To
The J. C. & S. Co.
(Don't know)
H. J. & Co.

Sept. 15/67

P. W. 1867. Department.

Pro: of Govt. for Amc
No. 1785.

PROCEEDINGS OF GOVERNMENT

Dated 14

th. June 1867

*Informing the Supy.
Eng'n of the Sth Division of the
necessity for the creation of a
stand-pipe for Underwater
works at Bangalore.*

No. 313-314