

(1) Number of pages 16
(2) Date of repair 22. 11. 43
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. <u>2172</u>	Press Mis.
<u>86-88</u>	
Dated <u>5. 7</u>	<u>18. 11.</u>

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
5th July 1869*

Read the following papers:—

No. 86. From the Acting Superintending Engineer, 4th Division, to the Secretary to Government, Public Works Department, dated Madras, 5th June 1869, No. 1,273

With reference to the Order of Government, No. 1,768, dated 5th June 1868, I believe it is full time that I should report whether Mr Orr's experiments in the application of steam-power to machinery for the pulling of punkahs at the General Hospital have been sufficiently successful to warrant the introduction by Government of this new system, and the taking over of the apparatus from Mr Orr.

2. The experiments have been a sufficiently long time on trial, but I have not heard of any systematic or continued working of the punkahs having been established. The difficulties referred to in my report recorded in G O, No. 1,828, dated 10th June 1868, seem still to arise, and I am informed that it is almost impossible to work the punkahs on the Military and Civil side simultaneously. Repeated efforts have been made and the machinery gives way, and Mr. Orr reports to the Executive Engineer that he is still anxious to make another trial.

3. On my visit yesterday, the punkahs had not been worked by steam since the 24th of last month, and hand-pulling had been partially re-introduced.

4. Final orders should be passed on the subject, because the Military authorities complain to me of the inconvenience caused by the stoppage of the punkahs, the difficulty of introducing a regular system of hand-pulling during these experiments, and the discomfort caused to the patients at this hot season of the year.

5. The Major-General Commanding the Division addressed me on the 12th ultimo, on the requisition of the Deputy Inspector General of Hospitals, desiring that the punkahs might be made serviceable, and a similar requisition, dated 26th ultimo, was received from the Deputy Assistant Quarter Master General, asking for the removal of the engine and the re-introduction of the old system

No. 87. Endorsement of the Acting Superintending Engineer, 4th Division, dated Madras, 9th June 1869, No. 1,349

From the Executive Engineer, Presidency Southern Range, to the Superintending Engineer, 4th Division, dated Madras, 7th June 1869, No. 210

* 5th June 1869

I HAVE the honour to report that on Saturday* afternoon I inspected the working of the punkahs at the General Hospital. Those only were pulled that are in the main body of the building, Mr Orr not having completed his arrangements for pulling those in the wings.

2 I inspected the apparatus for changing the direction of force, and am of opinion that it must either be considerably modified and strengthened, or that it will never do the work for which it is intended. In the last trial but one it was found not to answer on account of vibration, and because the connecting roads did not work clear of it. I think it is a mere waste of time to allow Mr. Orr to go on making experiments with the present machinery. Even while I was present on Saturday the engine had to be stopped, because one of the pins which fastened the

*Proceedings of the Madras Government, Public Works Department,
5th July 1869*

connecting roads to the punkahs gave way Mr. Thompson, Mechanical Engineer, agrees with me that Mr Orr is not likely to succeed in working the punkahs for any time with his present machinery, and the man whom Mr. Orr himself employs suggests a totally different arrangement and a very expensive one

3. It is considered also that a more powerful engine will be required to work all the punkahs: I mean those in the wings, as well as those in the body of the building

4. I would suggest that Mr. Orr be desired to remove his machinery without loss of time

FORWARDED to the Secretary to Government, Public Works Department, in continuation of letter No. 1,273, dated 5th June 1869

(Signed) J. BEAN, Lieut.-Colonel, R. E.,
Ag. Superintending Engineer, 4th Division.

No. 88. ORDER THEREON, 5th July 1869, No. 2,172.

CIVIL WORKS, No. 16

It appears that the main impediment Mr. Orr has experienced in completing his arrangements for pulling the whole of the punkahs of the General Hospital by steam, is the difficulty of changing the direction of the motive power from the longitudinal to the transverse wards of the building. As he has now hopes of being able shortly to overcome this difficulty, the Government are unwilling to deny him the opportunity of bringing his system into successful operation, and His Excellency the Governor in Council will accordingly defer passing final orders on these letters.

(True Extract.)

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

To Mr. P. Orr.
To the Superintending Engineer, 4th Division

Exd S T Augustin.]

No 1273.

Supp. Engr. Office to Division
Madras 5th June 1869

From,

Lieut Colonel J. Bean R.E.
Ag. Sup. Engineer 4th Division

To

Colonel C. A. Orr R.E.
Secretary to Government P.W.D.

Sir,

With reference to the order of Government No. 1768 dated 5th June 1868. I believe it is full time that I should report whether Mr. Orr's experiments in the application of steam power to machinery for the pulling of Punkahs at the General Hospital have been sufficiently successful to warrant the introduction by Government of this new system, and the taking over of the apparatus from Mr. Orr.

2 The experiments have been a sufficiently long time on trial, but I have not heard of any systematic or

continued

continued working of the punkahs having been established. The difficulties referred to in my report recorded in L.O. G. 1828 dated 10 June 1868 seem still to arise, and I am informed that it is almost impossible to work the punkahs on the military and civil side simultaneously. Repeated efforts have been made and the machinery gives way and Mr Orr reports to the Executive Engineer that he is still anxious to make another trial.

3 On my visit yesterday, the punkahs had not been worked by steam ~~and~~ since the 24 of last month, and hand pulling had been partially reintroduced.

4 Final orders should be passed on the subject, because the Military Authorities complain to me of the inconvenience caused by the stoppage of the punkahs, the difficulty

of introducing a regular system of hand pulling during these experiments, and the discomfort caused to the patients at this hot season of the year.

5 The Major General — Commanding the Division addressed me on the 12 Ultimo, on the requisition of the Deputy Inspector General of Hospitals, desiring that the punkahs might be made serviceable, and a similar requisition dated 26 Ultimo was received from the Deputy Assistant Quarter Master General asking for the removal of the Engine and the reintroduction of the old system.

I have the honor to be
Sir
Your most obedient servant.

Wm. Duffell R. S.
Ag. Sup. Surg. & S.

N^o 210 1st District Eng^r's Office S. D. C.
Madras 7th June 1869.

From

The Executive Engineer District

To The Superintending Engineer S. Range
4th Division

Sir,

I have the honor to report that on
saturday afternoon I inspected the working
of the punkahs at the General Hospital.
Those only were pulled that are in the main
body of the building - Mr. Orr not having
completed his arrangements for pulling
those in the wings.

2 I inspected the apparatus for changing
the direction of force and am of opinion
that it must either be considerably mo-
dified and strengthened or that it will
never do the work for which it is intended.
In the last trial but one it was found
not to answer on account of vibration and
because the connecting rods did not work
clear of it. I think it is ^a more waste of time
to allow Mr. Orr to go on making experiments
with the present Machinery. Even while I
was present on saturday the Engine had
to be stopped because of the pins which
fasten

5th June/69

1st District Eng^r's Office
Madras 7th June 1869.

The Executive Engineer
District

To The Superintending Engineer
S. Range

Dated 5th June 1869.
N^o 1238.

Reporting on the
working of punkahs by
steam at the General Hospital
and suggesting that special
orders may be passed in
the subject.

21086

No 2172 - 3rd June 1869

fasten the connecting rods to the pump bars
gave way. Mr Thompson Mechanical
Engineer agrees with me that Mr Orr is
not likely to succeed in working the
pump bars for any time with his present
machinery and the man whom Mr Orr
himself employs suggests a totally different
arrangement and a very expensive one.

3. It is considered also that a more
powerful engine will be required to work
all the pump bars. I mean those in the wings
as well as those in the body of the building.

4. I would suggest that Mr Orr be
desired to remove his machinery without
loss of time.

I have the honor to be
Sir
Your Most Obedt Servt

C. D. Drake Major R.E.

Exo: Engrs Pres^y A. R.

From
 The Exchange & Post
 & Exchange
 to the Chief's Office
 dated 1st June 1869.
 Recd 3 June 1869.
 N. 210.
 Deputed upon the
 exchange post with
 of the 10th Infantry
 for building the Post
 at General Mack's
 by the same power.

N. 1349.
 Forwarded to the Secretary to Government
 Public Works Department in continuation
 of letter No. 1273 dated 5th June 1869.

Wm. H. M. M.
 of the 10th Infantry to the 10th
 Major's Office of the 10th
 at Madras 9th June 1869
 To
 Colonel E. A. Orr R. E.
 Secretary to Government P. W. D.
 Fort St. David's

1869 Dept
From Secy of Govt
No 2172
The Asst. Sup. Engineer
4th Dec

To
The Secretary to Government
Public Works Dept

Dated 9th June 1869
Recd 10th June 1869

No 1349.
Submitting a letter
from the Executive Engineer
Presidency Southern Range
reporting upon the unsuc-
cessful results of Mr. Orr's
experiments for pulling
the Punkahs at General
Hospital by steam power.

No 2172-5 June 1869

1087

1869
Civil Works
P.W. Dept. 13
No 2172
Proceedings of the Madras Government.
Under date the 5th July 1869
Read the Morning

From the Asst. Sup. Engineer

4th Dec
" Asst. Sup. Engineer (Here enter No 1273 of 5th June 1869)
4th Dec (" " " " 1349 of 9th June 1869)

It appears that
the main impediment
Mr. Orr has experienced
in completing his arrange-
ments for pulling the
whole of the Punkahs of
the General Hospital by
steam, is the difficulty
of changing the direction of
the motive power from the
longitudinal to the trans-
verse wards of the build-
ing. ~~and~~ he has now
hopes of being able shortly

11/3/22
233
To overcome this difficulty
the Government are un-
willing to deny him the
opportunity of bringing
his system into success-
ful operation. His ex-
cellency the Governor
in Council will accord-
ingly defer passing orders
on these letters.

W. H.

13-
22
3
Mr. J. C. S.
Super Engineer 4th Div.
Dec 6/17/9

1113-1150
No 2367 & 2419
Court. of 1869 Madras.

P. B. IC WORKS.

To Mr. P. C. S.

Printed

1869

G O 5-5-5 1869, No 2172

No. 86/288

Pembroke at the General Hospital.

Referring orders on the letters
from the Surgeon of the 4th Regt
relative to the results of Mr. P. C. S.
in the application of Steam
Power to machinery for the pulling
of Pembroke at the General Hos-
pital in Madras.