

(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.	1146	Press
B.P. No.		Mis.
337.346		
Dated	21. 4.	18.73

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
21st April 1873.*

Read the following papers:—

No. 337. From the District Engineer, Bangalore, to the Chief Engineer, Public Works Department, dated Bangalore, 18th March 1873, No. 1,008.

I HAVE the honour to inform you that the three wells to the east being nearly complete, also the single one to the west.

2. I wrote on the 12th instant to the Inspecting Engineer for Buildings, asking if I should commence the ten other wells approved of by Government in their order of the 15th January 1873. He informed me that I should go on with them, taking care that they were in the exact positions marked on the sketch. Seven of them were accordingly marked out.

3. On the 15th I received a docket from the Assistant Quarter Master General (a copy of which is enclosed), asking by what authority this was done. I replied, that my authority was the Government Order No. 144 of the 15th January 1873. I have to-day received another docket (a copy of which is also enclosed), from which it will be seen that the Major-General requests I will not break ground till the views of His Excellency the Commander-in-Chief are obtained.

4. The wells in question have been marked out in accordance with the sketch of the wells sent in by Captain Wood.

5. I have the honour to request that an early decision may be arrived at in this matter.

From the Assistant Quarter Master General, Mysore Division, to the District Engineer, Bangalore, dated Bangalore, 15th March 1873, No. 118.

THE undersigned having observed the sites of certain wells marked out under the east corner of the Ulsoor Tank, and to the north of the existing wells, the Major-General requests to be informed whether there is any intention of sinking wells on these sites, and, if so, by what authority.

From the same Officer, dated Bangalore, 18th March 1873, No. 122.

His No. 1,021 of 17th instant.

The sites proposed for the new wells were never submitted for the approval of the Major-General, and as he considers it very doubtful whether wells sunk on the sites proposed by the District Engineer will prove beneficial, he will feel obliged if the District Engineer will not break ground until the views of His Excellency the Commander-in-Chief are obtained, in doing which there shall be no delay.

TRANSFERRED to the Military Department, with reference to Proceedings in that Department No. 2,013 of 30th May 1865, and No. 2,244 of 8th June 1868, to both of which the proceedings of the Major-General Commanding the Mysore Division appear to be opposed.

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government, P.W.D.

20th March 1873.

REFERRED to His Excellency the Commander-in-Chief for prompt report, with reference to the Proceedings of Government quoted, and Nos. 353 and 356 of 30th January, and No. 581 of 14th February 1873.

FORT ST. GEORGE,
21st March 1873.

(Signed) A. C. SILVER, Colonel,
Secretary to Government, M.D.

*Proceedings of the Madras Government, Public Works Department,
21st April 1873.*

No. 338. Endorsement of the Secretary to Government in the Military Department, dated Fort St. George, 22nd March 1873:—

From the Officer Commanding Mysore Division, to the Quarter Master General, Head Quarters, Fort St. George, dated Bangalore, 18th March 1873, No. 161.

I HAVE the honour to request that you will be so good as to submit, for the early orders of His Excellency the Commander-in-Chief, the following representation regarding certain additional wells which the District Engineer proposes to sink at the Dhobies' Wells according to the orders contained in O. G., No. 144 of 15th January 1873.

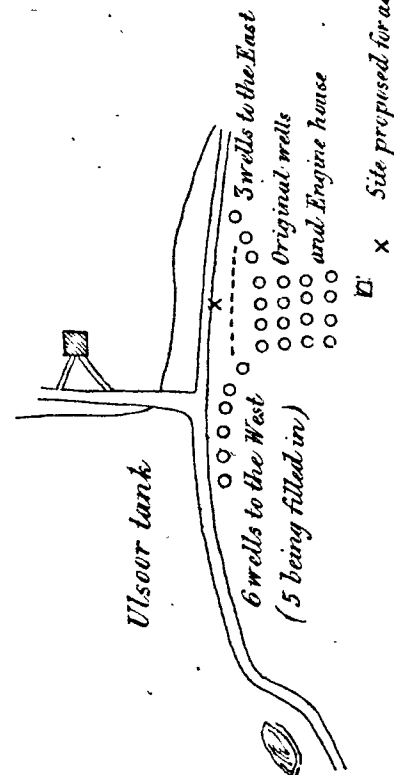
2. On visiting the Dhobies' Wells a day or two ago my Assistant Quarter Master General learnt that it was the intention of the Public Works Department to sink a line of wells at the east corner of the Ulsoor Tank on the site shown in the rough sketch in the margin.

3. Major Mesham argues that if the water of the Dhobies' Wells is obtained from the Ulsoor Tank, as Mr. Nicholson states it is, placing a line of wells in the position chosen by the Public Works Department, must be of no value, because they would intercept the water which already finds its way into the existing wells, and they might be positively injurious by weakening the filtering bed.

4. It is understood that the result of Mr. Nicholson's various analyses shows that the old Dhobies' Wells and the three wells recently sunk to the last of them do not contain the same water, the former

being Ulsoor Tank water filtered through a bed of laterite, and the latter being sub-soil water of very pure quality.

5. I have called upon the District Engineer not to break ground until His Excellency's views are received, and I would suggest that the opinions of Dr. Massy, C.B., and Mr. Nicholson, should be obtained before Government are committed to what may prove a waste of money and a positive injury to the large outlay already incurred. Mr. Nicholson is at present employed under the orders of Government in the Public Works Department.



*Proceedings of the Madras Government, Public Works Department,
21st April 1873.*

MEMORANDUM No. 2241.

FORWARDED for submission to Government. His Excellency the Commander-in-Chief deprecates any action being permitted in sinking the wells in question, until the subject has been fully considered. He would recommend that the existing wells be tested as to quantity of supply, and that if additional wells are found necessary, the site for them be carefully determined in communication with Mr. Nicholson, and the Officer Commanding the Division.

(By order,)

FORT ST. GEORGE,
21st March 1873.

(Signed) H. O'CONNELL, Colonel,
Offg. Quarter Master General.

TRANSFERRED to the Public Works Department.

(Signed) A. C. SILVER, Colonel,
Secretary to Government.

No. 339. Endorsement of the Secretary to Government in the Military Department, dated Fort St. George, 25th March 1873.

From the Officiating Quarter Master General, to the Secretary to Government, Military Department, dated Fort Saint George, 24th March 1873, No. 2,314:—

IN returning the papers received with your Memorandum of the 22nd instant, I have the honour, by order of the Commander-in-Chief, to state that the Officer Commanding Mysore Division stopped the works at the Dhobies' Wells on his own authority, pending a reference to the Commander-in-Chief, and under the impression that in so doing he was acting in the interests of Government.

2. As the position of the wells is stated in the District Engineer's letter No. 1,008, dated 18th March, to be in accordance with the sketch sent in by Captain Wood, His Excellency the Commander-in-Chief has directed me to telegraph to the Officer Commanding Mysore Division to allow the work to proceed.

TRANSFERRED to the Public Works Department, and previous correspondence returned.

(Signed) A. C. SILVER, Colonel,
Secretary to Government.

MEMORANDUM.

THE supply of water for ablution and general purposes by the troops at Bangalore is derived from the Ulsoor Tank, being first purified by filtration, then pumped up into reservoirs on a high level, and thence distributed to the various blocks of quarters.

2. The supply for drinking and cooking is pumped up from the Dhobies' Wells, originally sixteen in number; which number was proposed by the Sanitary Commissioner to be increased, in order that the area of filtration might be augmented, so that a minimum supply of 30,000 to 35,000 gallons per diem might be reckoned on in the dry weather. From actual pumping experiments carried on for a week continuously it was found that to make sure of a supply of 35,000 gallons daily the area of filtration, in other words the number of wells of equal size, should be doubled. The position of the additional sixteen wells sanctioned is shown in yellow on the accompanying sketch on tracing cloth.

Proceedings of the Madras Government, Public Works Department,

21st April 1873.

3. Last Christmas His Excellency the Commander-in-Chief found that the precise position of the wells sanctioned had not been adhered to; and his representations resulted in five wells under the bund of the Ulsoor Tank, and lying west of the wells originally planned, being disallowed, (marked 1 to 5 on the accompanying sketch in paper), and four only (marked 6 to 9) carried out.

4. The Military authorities at Bangalore have now stopped further progress with the remaining twelve sanctioned wells, because the Assistant Quarter Master General, Major Mesham, argues that they would intercept the water which already finds its way into the existing wells. This was perfectly well known when the sanction of Government was given for their execution; but inasmuch as the capacity of the Ulsoor Tank which supplies these wells is infinitely greater than that of the wells supplied, it was clearly foreseen that it could easily supply double the number of wells without diminishing the supply to the old ones. The filtering bed cannot possibly be injured by sinking in it circular stone-lined wells. If therefore it be still considered necessary to carry out the Sanitary Commissioner's recommendation that the area of filtration be doubled, the Chief Engineer is clearly of opinion that the wells already sanctioned should be completed without delay. The Military authorities at Bangalore would appear to have forgotten, or not to have understood the papers communicated to them with G. O. No. 1,333 of 15th May 1871, and No. 1,933 of 22nd July 1871.

FORT ST. GEORGE,
March 1873.

(Signed) G. W. WALKER, Colonel, R.E.,

Chief Engineer, P.W.D.

No. 340.

ORDER THEREON, 21st April 1873, No. 1,146.

MILITARY WORKS, No. 7.

THE wells in the construction of which the Military authorities at Bangalore have caused interruption, pending

further inquiry, being those distinctly laid down on the sketch submitted with the Executive Engineer's report on which the sanctions of the Local Government and Government of India were based, such action on the part of the Military authorities was contrary to the Standing Orders of Government; His Excellency the Commander-in-Chief, on the supply of further information, has issued the necessary instructions to prevent further interference with this work.

2. The additional wells are required to provide a greater surface area of filtration, as recommended by the Sanitary Commissioner, and calculated to be necessary from actual pumping experiments. Reference of the subject to further report does not appear to be called for.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,

Secretary to Government.

To the Inspecting Engineer for Buildings.

., Military Department.

.. District Engineer, Bangalore.

.. Controller of Public Works Accounts.

Exd. T. O'Connor.

Wm. B. Paul, Officer
Pompano, 15th March 1877

From

The Assistant Adj. Genl.
Myson Division

The District Engineer
Bangalore.

Nº 118. 21. sept. 81

The undersigned having observed the sites of Cert and wells marked out under the E. corner of the Moor Tank and to the N. of the existing wells the Major General requests to be informed whether there is any intention of sinking wells on these sites and if so by what authority.

(Signed) W. R. Merham Major

Sept 2^d Mr. Galt M.D.

in brief are as follows -

Immediate.

Appt. 2^d Ins. Genl. Office M.D.
Bangalore 18th March/73.

From

The Assistant A. Ins. General
Mysonne Division

To

The District Engineer
Bangalore.

N^o 122.

Dist. 1021 of 17th instant.

The sites proposed for the new
wells were never submitted
for the approval of the Major
General and as he considers it
very doubtful whether wells
sunk on the sites proposed by
the District Engineer will prove
beneficial, he will feel obliged
if the District Engineer will
not break ground until the views
of His Excellency the Commander
in Chief are obtained—in

doing which there shall be no delay.

(By Order)

W. R. Sherham Major
A. L. Ins. General M.D.

"True copies"

W. R. Sherham Captain R.E.
District Engineer Bangalore

No. 1028

District Engineer's Office

Bangalore 18 March 1873

From

The District Engineer

Bangalore.

To

The Chief Engineer

Public Works Department

Sir,

I have the honor to inform you that the three wells to the East being nearly complete also the single one to the West.

I wrote on the 12th Instant to the Inspecting Engineer for Buildings, asking if I should commence the ten other wells approved of by Government in their Order of the 15th January 1873. He informed me that I should go on with them taking care that they were in the exact positions marked on the sketch. Seven of them.

24/3

1458 9/1873

1947
S. M. 1802/73

Pl. 21 April 1873

1873
May 23/83

them were accordingly marked out.

On the 15th I received a docket from the Assistant Adj. Master General. (a copy of which is enclosed) asking by what authority this was done. I replied that my authority was the Government Order No. 144 of the 15th January/73. I have to day received another docket (a copy of which is also enclosed) from which it will be seen that the Major General requests I will not break ground till the views of His Excellency the Commr. in Chief are obtained.

The wells in question have been marked out in accordance with the sketch of the wells sent in by Captain Wood.

I have the honor to request that an early decision may be arrived at in this matter.

I have

2
I have the honor to be

Sir,

Your most Obedt Servant

Henry Wood ^{as per main P. 6}

District Engr. Bangalore.

Head Quarters Mysore Division
 Bangalore 10th March 1873
 No 161
 The Officer Commanding
 Mysore Division

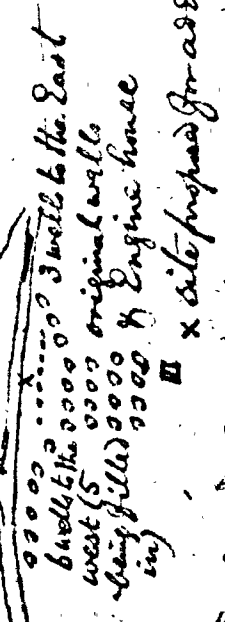
To The Quarter Master General
 Head Quarters
 Fort Saint George

Sir I have the honor to request that you will be good as to submit for the early orders of His Excellency the Commander in Chief the following representations regarding certain additional wells which the District Engineer proposes to sink at the Dhobies wells according to the orders contained in O.G. No 144 of 15th January 1873.

2. On visiting the Dhobies wells a day or two ago my Asst Engr General learnt that it was the intention of the P.W. D. to sink a line of wells at the East corner of the Ulloor tank on the site shown in the rough sketch in the margin.

3. Major Mesham argues that if the water of the Dhobies wells is obtained from the Ulloor tank, as Mr. Nicholson states it is, placing a line of wells in the position chosen by the P.W. D. must be of no value because they would intercept the water which already finds its way into the existing wells and they might be positively injurious by weakening the filtering bed.

4. It is understood that the result



No 15 Bangalore 20 285-237

Refd to the P.W. D. 1873

The District Engr

to the Engr General

Refd 18 March 73

Refd 22 March 73

Refd 22 March 73

Refd 22 March 73

Refd 22 March 73

Refd 22 March 73

Refd to the Excellency the Com.

with reference to the Dhobies wells.

Refd 22 March 73

Refd 22 March 73

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Refd 22 March 73

Refd 22 March 73

of Mr. Nicholson's various analyses shows that the
old Shihies wells and the wells recently sunk
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a bed of laterite and the latter being subsoil
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5 I have called upon the District
Engineer not to break ground until His Excellency's
views are received and I would suggest that
the opinions of Dr. Massey, C. B. and Mr. Nicholson
should be obtained before Government are
committed to what may prove a waste of
money and a positive injury to the large outlay
already incurred. Mr. Nicholson is at present
employed under the orders of Government in the
P.W.D.

I have the honor to be

Very truly
Your most Obedt servant

W. Norton
Major General
Commanding Mysore D. C.

212
Shobis Wells.

When I forwarded
 Capt Porters Remonstrance
 I was under the impression
 that the wells objected
 to were over and above
 the project sanctioned
 by Govt. on learning this
 I was not the case and that
 the sanctioned work had
 been interfered with
 I at once telegraphed to
 Genl Porter to allow the
 work to proceed I enclose

Enclose
 in C
 Shobis Wells

1857/3

Military Dept

Transferred to
 the Public Works
 Department and
 previous cases:
 Providence returns:

ed.
 Universal
 Copy to Government

Contest George,
 25th March 1873.
 C. 1873
 The Public Works
 with department
 1873 20th 1873

1873 Department

1873

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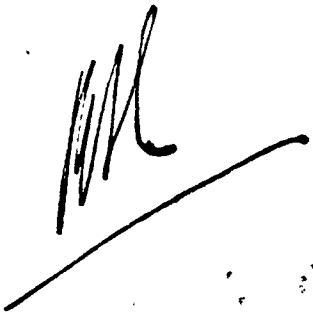
Order to be executed -

1873

Howard

~~The Quarter Master Genl. (H.E. do 14598 1/2 "Jan 73)~~
~~St. Supr., Bangalore - (H.E. do 1008 1/18 "Nov 73)~~
 Endorsement from the } (" " - " 22 " "
 Military Department }
 do do - (" " - " 25 " "

For this, I am indebted

The Wells ⁱⁿ with
the construction of which
the Military Authorities
at Bangalore ~~have~~
have caused interruption, pending ~~for~~ being those distinct
further enquiry,

by laid down on the
Sketch submitted with
the Executive Engineer's
Report on which the
sanctions of the ^{Local} Govern-
ment and Government
of

of India were based, such
action on the part of the military authorities
~~interference~~ was contrary
to the Standing Orders of
Government; and has ac-
cordingly been discon-
tinued by His Excellency

the Commander in Chief,
on the supply of further
information, has issued the necessary instructions to
prevent further interference

The additional with this work.

Wells are required to pro-
vide a greater surface
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commended by the Sani-
tary Commissioner, and
calculated to be necessary
from actual pumping ex-
periments. Reference
of the subject to further
report does not appear

to be called for.
ENCL.

11- To the Secy. Genl. for Bengal & Assam
15- " Military Secy.
2- " D. C. Bangalore
6- " Controller of L. & S. A. S. S. S.
Dated 3-5-73.

45
5

Memorandum for
Orders

The supply of water for ablution and general purposes by the Troops at Bangalore, is derived from the Clever Tank; being first purified by filtration, then pumped up into Reservoirs on a high level, and thence distributed to the various Blocks of Quarters.

The supply for drinking and cooking is pumped up from the Dholes Wells, originally 16 in number, which number was proposed by the Sanitary Commissioner to be increased, in order that the area of filtration might be augmented, so that a minimum supply of 30,000 to 35,000 gallons per diem might be reckoned on in the dry weather. From actual pumping experiments

experiments carried on for a week continuously it was found that to make sure of a supply of 35,000 gallons daily the area of filtration, in other words the number of Wells of equal size, should be doubled. The position of the additional 16 Wells sanctioned is shown in yellow on the accompanying sketch on tracing cloth.

Last Christmas His Excellency the Commander-in-Chief found that the precise position of the Wells sanctioned had not been adhered to; and his representations resulted in 5 Wells under the bund of the Ulsoor Tank and lying West of the Wells originally planned, being disallowed (marked 1 to 5 on the accompanying sketch in paper) and 4 only (marked 6 to 9) carried out.

The Military authorities at Bangalore have now stopped further progress with the remaining 12 sanctioned

sanctioned Wells, because the Assistant Quarter Master General Major Mesham argues that they would intercept the water which already finds its way into the existing wells. This was perfectly well known when the sanction of Government was given for their execution; but inasmuch as the capacity of the Ulsoor Tank which supplies these wells is infinitely greater than that of the wells supplied, it was clearly foreseen that it could easily supply double the number of Wells without diminishing the supply to the old ones. The filtering bed cannot possibly be injured by sinking in it circular stonelined wells. If therefore it be still considered necessary to carry out the Sanitary Commissioner's recommendation that the area of filtration be doubled, the Chief Engineer is clearly of opinion that

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municated to them with G.O. No. 1333
of 15th May 1871 and No. 1933 of 22nd July
1871.

W. M. Keith Esq. R.E.

Fort St George Chief Engineer
March 1873

D.P.B.

and I believe all analytical chemists
in any doubt as to quality of the
water his opinion is of value. Not
as to the manner of procuring the
water. I would leave the work
in the hands of the Officers of the B.P.W.
& hold them responsible for the
success of the project. W.M.

16. March 73.

2-337-40.

I think we must leave it to
the Professional Engineers to carry
out a scheme recommended by
competent Sanitary authority &
sanctioned by Govt.

If we are to have amateurs &
"specialists" interrupting the work
& interrupting the responsibility for
the success of the scheme we are
likely to get into a mess. Genl. Borton's
opinion on a professional question
of this kind, does not, to my mind,
carry weight. Major Ashham seems
to have spoken before thinking
Mr. Nicholson is a very confident

