M.R.O. 1—77,006—6-6-37.

(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. 93- 147-180.	Press / Mis.
Dated 11- 1-	1873.

Not to be folded or roughly handled

Read the following papers :—

No. 177. From the District Engineer, Bangalore, to the Chief Engineer, Public Works Department, dated Bangalore, 4th January 1873, No. 886.

I HAVE the honour to inform you that on the 31st December 1872, His Excellency the Commander-in-Chief inspected the nine new wells now in progress at the Dhobies' Wells, and requested that the work might be suspended till an analysis of the water was obtained from Dr. Nicholson. The work was of course at once stopped, and specimens of the water will immediately be forwarded to Dr. Nicholson for analysis.

2. I need scarcely say that this suspension of work will much delay the completion of the wells, and as the sum set aside for these wells is Rupees 11,200, I much fear we shall be unable to spend this before the close of the official year. Even if the work is suspended only for a fortnight, the Contractor will suffer considerable loss, as he will have to pump all these wells dry again, and, moreover, the water in the wells will damage the sides of the excavation considerably. It will I think therefore be necessary to allow the Contractor compensation for loss of time and money in taking out the water afresh.

Endorsement of the Military Department, dated Fort St. George, 7th January 1873.

No. 178. From the Officiating Quartermaster-General, to the Officiating Secretary to Government, Military Department, dated Fort St. George, 6th January 1873, No. 75.

I HAVE the honour by order of the Commander-in-Chief to report, for the information of Government, that His Excellency recently visited the Dhobies' Wells at Bangalore and the works under construction connected with that source of water-supply.

2. His Excellency observed that the tank-water flowed with such rapidity into one of the wells more recently sunk as to render its purity by any filtering process in its passage through the bund a very doubtful question. He deprecates operations at all so near the bund and would recommend that any further well sinking be limited strictly to the bed of laterite.

3. Sir Frederick Haines has instructed Major-General Borton to suspend further operations until the water shall have been analysed by Dr. Nicholson who is now at Bangalore. A further report will then be sent for the information of Government.

4. It is observed that the Deputy Inspector-General of Hospitals, Mysore Circle, anticipated imperfect filtration from increasing the supply of water, *vide* paragraph 13 of his letter, page 6 of Proceedings of Government No. 1,409 of the 30th April 1872.

5. His Excellency desires also to draw attention to the very defective state of the filters. One of the filtering beds lost three inches by leakage in twenty-four hours. This is a matter requiring immediate attention, and he would recommend that orders may be issued to have the repairs, requisite for the security and efficient

working of the filter beds, undertaken at once as an emergent work. The abundant supply from the Dhobies' Wells now available cannot be calculated upon throughout the dry season, and it is most important that failure of a regular supply of good water throughout the year should be guarded against by having the whole of the filtering system in thorough working order.

TRANSFERRED to the Public Works Department.

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

Endorsement of the Public Department, dated Fort St. George, 14th January 1873.

No. 179. From the Officiating Quartermaster-General, to the Chief Secretary to Government, Military Department, dated Fort St. George, 13th January 1873, No. 254.

IN continuation of this office letter No. 75, dated 6th instant, I have the honour, by order of His Excellency the Commander-in-Chief, to annex copy of a letter from Dr. Magry, Deputy Inspector-General, British Medical Service, on the subject of the new wells at the Ulsoor Water Works, Bangalore, and the necessity for the immediate repair of the filter beds.

From Dr. H. H. MAGRY, Deputy Inspector-General of Hospitals, British Medical Service, Mysore Circle, to the Inspector-General, British Medical Service, Madras, dated Bangalore, 7th January 1873, No. 14.

I HAVE the honour to bring to your notice that on the 3rd September 1872, I wrote to the Officer Commanding the Mysore Division pointing out amongst other conditions needing remedy at the water works at the Ulsoor Tank at Bangalore, that one of the filters had given way and, in consequence, had been completely useless for more than two years. Since the date of my letter nothing has been done to repair it.

2. The second filter is now out of repair and all the water supplied to the European Soldiers at this station is obtained from the Dhobies' Wells.

3. During the dry weather I am informed that the Dhobies' Wells will not be able to supply the quantity required, consequently additional water must be provided from the Ulsoor Tank which, if unfiltered, is unfit for use even for ablution purposes, in consequence of the large amount of suspended sand and clay it contains.

4. I am aware that these matters have obtained the anxious consideration of His Excellency the Commander-in-Chief and of Major-General Borton, but I would beg to call your special attention to the foregoing as fully comprehending the possible effect upon the sanitary interests of the European Soldiers at this station.

5. Some additional wells in advance on either flank of the Dhobies' Wells are in course of construction, but the excavations as far as they have gone render their completion a questionable success.

6. Some of these excavations are made in clay and not in the laterite, and in one place at least water is pouring from a leak through the bund. These waters are unlikely at all seasons to be similar to that of the Dhobies' Wells, filtered through the laterite.

7. I trust you will give your support to the repair of the filters at the water works, and with regard to paragraphs 5 and 6 of this letter, I would suggest that a competent Committee should be ordered to report upon the work already done in endeavouring to increase the number of the

Proceedings of the Madras Government, Public Works Department,
11th January 1873.

Dhobies' Wells. I may add that Sir Frederick Haines has directed the suspension of the work at the Dhobies' Wells for the present.

TRANSFERRED to the Department of Public Works for immediate attention in continuation of docket dated 7th instant.

(Signed) W. HUDLESTON,
Chief Secretary to Government.

No. 180. ORDER THEREON, 11th January 1873, No. 93.

MILITARY WORKS, No. 2.

THE Inspecting Engineer for Buildings is instructed to proceed to Bangalore, and report on the subject of the position of the new wells as likely to affect the stability of the tank bund and as to the strata through which they are sunk compared with those through which the old wells are sunk. It is presumed that by the expression "bed of laterite" a stratuin of gravel is intended.

2. Colonel Foord will also adopt measures for immediately remedying the defective state of the filters. That not at present in use should be first put into working order, and when that is done the leakage in the other must be attended to without delay, so that no risk be run of a defective supply of good water in the dry season.

3. Such estimates as may be necessary will be supplied in due course.

(True Extract.)

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

To the Inspecting Engineer for Buildings.
" District Engineer, Bangalore.

Exd. E. C. Shunker.

No 2:886

District Engineer's Office
Bangalore 4th January 1873.

From

5

The District Engineer,
Bangalore

To

The Chief Engineer
Public Works Dept
Madras.

Sir,

I have the honour to inform you that on the 31st December 1872, His Excellency the Commander in Chief inspected the 9 new wells now in progress at the Dhoby Wells, and requested that the works might be suspended till an analysis of the water was obtained from Dr Nicholson. The works were of course at once stopped, and specimens of the water will immediately be forwarded to Dr Nicholson for analysis.

I need scarcely say that this suspension of works will much delay the completion of the wells,

and

and as the sum set aside for these
wells is Rupees 11,200 I much fear
we shall be unable to spend this
before the close of the Official years.
Even if the work is suspended only
for a fortnight, the Contractor will
suffer considerable loss as he will
have to pump all these wells dry
again, and moreover the water in the
wells will damage the sides of the
excavation considerably. It will
I think therefore be necessary to
allow the Contractor compensation
for loss of time and money in
taking out the ~~excavation~~ water-freely.

I have the honour to be
Sir
Your most Obed^t Servant

Henry Thuillier Captain R.E.
District Engineer Hazaribagh

Quarter Master General's Office
Fort St. George 6th January 1873.

No 75

From

Colonel H. H. Donnell
Offg Quarter Master General.

To

Colonel A. C. Silver
Offg Secretary to Government
Military Department

Sir,

I have the honor, by order of the Commander in Chief, to report for the information of Government that His Excellency recently visited the Dhobies Wells at Bangalore and the works under Construction connected with that source of water supply.

2. His Excellency observed that the tank water flowed with such rapidity into one of the wells more recently sunk, as to render its purity by any filtering process in its passage through the bund a very doubtful question. He deprecates operations at all so near the bund and would recommend that any further well sinking be limited strictly to the bed of laterite.—

Sir

No

P. D. 1873 Weekly Abstract
Mil. Secy's Office
Secret Consultation
No 5 Jany 1873
Lr. R. Inst. Engineer
Bangalore.

&c

The Chief Engineer
P. W. Department
Madras.

Dated 4th January 1873.

Rec'd 9th —"

Informs that work at the Dhoby Well at the Bund has been stopped at the request of the Chief Commr. in Mysore.

Advises the results of the analysis of the water in the wells & the causes for the discoloration.

Encloses 3 Plans.

No 1177

Fort St. George 11th January 1873.

3. Sir Frederick Haines has instructed Major General Norton to suspend further operations until the water shall have been analysed by Dr. Nicholson who is now at Bangalore. A further report will then be sent for the information of Government.

4. It is observed that the Deputy Inspector General of Hospitals, Mysore Circle anticipated imperfect filtration from increasing the supply of water, vide para 13 of his letter, page 6 of Proceedings of Government No. 1109 of the 30th April 1872.

5. His Excellency desires also to draw attention to the very defective State of the Filters. One of the filtering beds lost three inches by leakage in 24 hours. This is a matter requiring immediate attention and he would recommend that orders may be issued to have the repairs, required for the security and efficient working of the filter beds, undertaken at once as an emergent work. The abundant Supply from the Dhobies Wells now available can not be calculated upon through out the dry season and it is most important that failure of a regular supply of good water throughout the year, should be guarded against

against by having the whole of the filtering System in thorough working order.

I have the honor to be,
Sir,
Your Obedient Servant
H. T. Tomell Colonel.
Offg Dy General.

Quarter Master General's Office
Fort St. George the 13th January 1873.

No. 254

From

Colonel H. H. O'Donnell C.
Offg Quarter Master General.

To

The Chief Secretary to Government
Military Department.

Sir,

In continuation of this Office
Letter No. 15 dated the 6th Instant, I have the
honor, by order of His Excellency the Commander
in Chief, to annex Copy of a letter from Dr.
Macrae, Deputy Inspector General, British Medical
Service, on the subject of the new Wells at the
Ulsoor Water Works Bangalore and of the necessity
for the immediate repair of the filter beds.

I have the honor to be,
Sir,
Your Obedient Servant,
H. O'Donnell Colonel.
Offg Qr. Mr. General.

Office

Military Dept.
Recd. 15th Jany 1873.
No. 75.

Dated 6th January 1873.
Recd. 9th Jany 1873.

Military Department.

Transferred to
the Public Works
Department.

Chief Secy. to Govt.

Military Secretary to Govt.
Military Department.

Submits Commander
in Chief's observations on Lieut
Col. Veitch's Report on the
Wells at Bangalore and the
Works under Contract
Connected therewith.

Fort St. George
Dated 13th Jany 1873.

To

The Public Works Secretary

Sir

I am directed by His Excellency the Commander in Chief to forward for the information of Government the accompanying Report from Lieut Colonel Veitch, Chief Engineer Mysore Division, on the Wells at Bangalore and the Works under Contract connected therewith.

2. His Excellency desires that the Report may be returned after perusal.

I have the honor to be,
Sir,
Your most obedient Servant,
H. O'Donnell Colonel.
Offg Qr. Mr. General.

Office of Deputy Inspector General
British Medical Service
Bangalore 7th January 1873.

No. 14.

Sir,

I have the honor to bring to your notice that on the 3d September 1872, I wrote to the Officer Commanding the Mysore Division pointing out amongst other Conditions, needing remedy at the Water Works at the Ulsoor Tank at Bangalore, that one of the filters had given way and in Consequence had been Completely useless for more than two years. Since the date of my letter nothing has been done to repair it.

2. The second filter is now out of repair and all the water supplied to the European Soldiers at this Station is obtained from the Shobers Wells.

3. During the dry weather I am informed that the Shobers Wells will not be able to supply the Quantity required, Consequently additional water must be provided from the Ulsoor tank which if unfiltered is unfit for use even for ablution purposes in Consequence of the large Amount of suspended sand and clay it Contains.

To
The Inspector General
B. M. S. Madras.

4. I am aware that these matters have obtained the anxious consideration of His Excellency the Commander in Chief, and of Major General Burton, but I would beg to call your special attention to the foregoing as fully comprehending the possible effect upon the sanitary interests of the European Soldiers at this Station.

5. Some additional Wells in advance on either flank of the Dhobees Wells are in course of construction, but the excavations as far as they have gone, render their Completion a questionable Success.

6. Some of these excavations are made in clay and not in the Laterite, and in one place a Reach water is pouring from a Leak through the Bund. These waters are unlikely at all Seasons to be similar to that of the Dhobees Wells, filtered through the Laterite.

7. I trust you will give your support to the repair of the filters at the Waterworks, and with regard to paras 5 and 6 of that letter, I would suggest that a Competent Committee should be ordered to report upon the work already done in endeavouring to increase the number of the Dhobees Wells. I may add that Sir Frederick Haines has directed the suspension of the work at the Dhobees Wells for the present.—

17

I have &c.

(Signed) W. H. Hagy.

Dy Insp Genl of Hospitals

B. M. S. Mysore Circle.—

(True Copy)

J. T. O'Connell Colnel.

Offg Adjt General.

4. I am aware that these matters have obtained the anxious consideration of His Excellency the Commander in Chief, and of Major General Bouton, but I would beg to call your special attention to the foregoing as fully comprehending the possible effect upon the sanitary interests of the European Soldiers at this Station.

5. Some additional Wells in advance on either flank of the Dhobees Wells are in course of construction, but the excavations as far as they have gone, render their Completion a questionable Success.

6. Some of these excavations are made in clay and not in the Laterite, and in one place a Reach water is pouring from a Leak through the Bund. These waters are unlikely at all Seasons to be similar to that of the Dhobees Wells, filtered through the Laterite.

7. I trust you will give your support to the repair of the filters at the Waterworks, and with regard to paras 5 and 6 of that letter, I would suggest that a Competent Committee should be ordered to report upon the work already done in endeavouring to increase the number of the Dhobees Wells. I may add that Sir Frederick Haines has directed the suspension of the work at the Dhobees Wells for the present.—

17

I have &c.
(Signed) W. H. Hagy.
Dy Insp Genl of Hospitals
B.M.S. Mysore Circle.—

(True Copy)
J. T. Connell Colnel.
Offg Dpty General.

P.M. 233/73.
K.G. Plotzdah: 179 Stjan 1873.
M.d.
d. 31st Jan 1873.

Public Works Department
Revd from Govt. for Madras
No 1477
Dated 13th January
Rec'd 14th "
No 2574 E 1

Submits Copy of Letter from Dep'y Inspector General P.W.D. regarding the New Wells at the Ulsoor Water Works Bangalore, and the necessity for the immediate repair of the filter beds.

No 93 - 11th January 1873.
Transferred

From
The Dy Engineer
Bangalore } (H. E. No 886 of 4th Jany/73)
" Quarter Master Genl } (" " No 75 of 6th "
Hrs the Mily. Departt } (" " No 254 of 13th "
Do Do (

The Inspecting Engineer for Buildings is instructed to proceed to Bangalore, and report on the subject of the position of the new Wells, as likely to affect the stability of the bank bund, and as to the strata through which they are sunk compared with those through which the old Wells are

I strongly advocate the abandonment of the Western Extension of the wells - and consider that the additional water supply afforded by those at the Eastern end will be ample for our purpose - I object to those on the Western side as affording and inferior quality of water and [illegible]

No 93 P.W.D. 1873
Proceedings of the Madras Government
under date the 11th January 1873.
Read the following:-
From

sunk. It is presumed that by the expression "bed of Laterite" or stratum of gravel is intended.

Col: Foord will also adopt measures for immediately remedying the defective state of the Filters. That not at present in use should be first put into working order; and when that is done, the leakage in the other must be attended to without delay; so that no risk be run of a defective supply of good water in the Reservoir.

Stating a change in the Council — Dr Nicholsons report stating & confirms my view as to the first point. Col Foord will doubtless form us a sound opinion as to the second —

GWW

o.o

Such estimates as may be necessary will be supplied in due Course.

GWW

To
The Junr Engr for Buildings &
Dt Engr Bangalore &
Milry Secty &
Memo dated 11/1/73. to Exec Engr
P-C — 27/1/73 to all.

Colo Aug 1/72

Cyc. 59.79 4233

Govt. of {1873} Madras.

PUBLIC WORKS.

"The Inspecting Engineer for Buildings

Date

Recd. Encl.

G. O. 11th Jany 1873. No. 93.

Nos. 177 & 180

Water Works at

Bangalore. The Inspecting Engineer for Buildings instructed to proceed to Bangalore. Report on the subject of the existing & the new wells and to adopt measures for remedying the

Colo Lang/73