M.R.O. 1—77,006—8-6-37.

(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. 2478 Press Mis.-

485-84

Dated 28-7 1887.

Not to be folded or roughly handled

No. 485. Read the following Endorsement of the Officiating Superintending Engineer, 5th Division, dated Virdachellum, 8th September 1871, No. 129:—

From the Executive Engineer, Bangalore, to the Superintending Engineer, 5th Division, dated Bangalore, 31st August 1871, No. 520.

WITH reference to Proceedings of Madras Government, Public Works Department, dated 24th August 1871, and to paragraph 3 of G. O. thereon, No. 2,178, covered by your docket No. 95, dated 28th idem, I beg to submit the following remarks.

2. The conservancy of the Ulsoor tank at this station is noticed very particularly by Mr. Nicholson, the Analyst of Waters, Mysore, Ceded and Northern Districts, in his reports of 5th May 1871 and 11th July 1871.

3. He is of opinion generally (and in that opinion I quite agree) that much may be done to improve the cleanliness of the tank, and to this end he makes several recommendations which the Government, in their abovementioned order, propose to notice at a future date.

4. I think it right (with reference to the above recommendations) to call attention to the position held by the Executive Engineer at this station in regard to the Ulsoor tank.

5. Dr. Nicholson complains that much valuable ground has been reclaimed from the tank. To this I would reply that such ground as has been reclaimed comes within the terms of the leases given to occupiers of land round the tank by the Mysore Government. I believe the limits of such lands extend to the edge of the water of the tank. If, therefore, when the tank is at low water-mark means are taken (as has happened) for reclaiming the foreshore by the occupiers of the land, it is a legal question whether the Madras Government, by whom the water of the tank is used, can or cannot interfere.

6. Again, there is no doubt that by immemorial usage a very large population is entitled to use the water of the tank both for themselves and their cattle. I take every means to prevent cattle being washed in the tank, but I think it is doubtful whether I have any legal right to do so.

7. I am not aware that weeds or wholesome water-plants have been eradicated from the tank. Mr. Nicholson expresses an opinion that if such as exist in Miller's tank were to be introduced, the water of the Ulsoor tank would become clear again. I notice however that, in Mr. Nicholson's letter of 1st July 1871 to the Secretary to the Inspector-General, Indian Medical Department, it is stated: "The "muddiness is common to all those tanks about Bangalore in which there are no "water-plants. I find several tanks out of Bangalore, and without suspicion of "sewage contamination, of which the water is quite as opaque as that of the Ulsoor "tank, whilst these thick waters when filtered are much freer from organic matters "than the clear water of the tanks in which water-plants grow. Thus the filtered "water of Ulsoor tank requires but ·0007 grm. of oxygen per litre for perfect oxi- "dation, while the clear water of Miller's Tank requires above ·0040 grm." From a comparison of the two passages quoted, it does not seem very necessary to go to any expense to introduce the water-plants of Miller's tank into the Ulsoor tank;

more especially if it be recollected that Miller's tank being 1½ miles above the Ulsoor tank, and the Cantonment bazaar being situated between the two, the quality of the water of the first should be infinitely superior to that of the second tank.

8. As regards the introduction of water-fowls in the Ulsoor tank, it would be necessary to form an island for their protection, as the tank is almost entirely surrounded by public roads. I may mention that two years ago I introduced some tame ducks with a view to getting rid of the "conferval vegetation which rises to the surface of the water as a green scum," the ducks, however, declined to eat it.

9. As the greater length of the roads running round the tank belongs to the Bangalore Municipality, some clashing of authority occurs regarding the conservation of the banks of the tank; this difficulty could perhaps be got over by an exchange of roads, if the Madras Government communicated with that of Mysore on the subject.

10. I confess I am unable to see how the owners of compounds abutting on the borders of the tank can be prevented from manuring their ground. The grass crop in Bangalore is a valuable one, and to interdict manuring would be simply to fine heavily all occupiers of ground round the tank.

11. The question of deepening the tank by removing silt and other deposit is of course one of simple expenditure. Under this category also come the recommendations for fencing the tank and cleansing the gathering grounds about it.

FORWARDED to Government (with reference to G. O., No. 2,178, of 24th August 1871), as the remarks of Captain Wood may be considered worthy of notice when the Government is finally deciding on the water-supply of Bangalore scheme.

(Signed) J. VERTUE, Captain, R.E.,
Offg. Superintending Engineer, 5th Division.

No. 486. ORDER THEREON, 28th September 1871, No. 2,478.

MILITARY WORKS, No. 12.

ORDERED that the consideration of this letter, which will be communicated to Assistant Surgeon Nicholson through the Inspector-General of the Indian Medical Department, be deferred pending the receipt of the final reports which are now awaited on the quality of the filtered water of the Ulsoor tank.

(True Extract.)

Captain, R.E.,
Under Secretary to Government.

To the Inspector-General, Indian Medical Department.
" Public Department.
" Chemical Examiner.
" Military Department.
" Sanitary Commissioner.

Exd. S. T. Augustin.

No. 520

Executive Engineer's Office,
Bangalore, 31st August 1871.

From,
The Executive Engineer,
Bangalore.

To,
The Superintending Engineer,
5th Division.

Sir,

With reference to Proceedings of Madras Government, Public Works Department dated 24th August 1871 and to para 3 of G. O. thereon No. 2,178, covered by your docket No. 95 dated 28th idem, I beg to submit the following remarks.

The conservancy of the Ulsoor tank at this station is noticed very particularly by Mr Nicholson the Analyst of Waters, Mysore Ceded and Northern Districts, in his reports of 5th May 1871 and 11th July 1871.

He is of opinion generally (and in that opinion I quite agree) that much may be done to improve the cleanliness of the tank and to this end he makes several recommendations which the Government in their abovementioned order propose to notice at a future date.

I think it right (with reference to the above recommendations) to call attention to the position held by the Executive Engineer

at this station in regard to the Ulsoor Tank.

Dr Nicholson complains that much valuable ground has been reclaimed from the Tank. To this, I would reply that such ground as has been reclaimed, comes within the terms of the leases given to occupiers of land round the Tank by the Mysore Government. I believe the limits of such lands extend to the edge of the water of the Tank. If therefore when the Tank is at low water mark means are taken (as has happened) for reclamation more shore by the occupiers of the land - it is a legal question whether the Madras Government, by whom the water of the Tank is used, can or cannot interfere.

Again there is no doubt that by immemorial usage a very large population is entitled to use the water of the Tank both for themselves and their cattle. I take every means to prevent cattle being washed in the Tank, but I think it is doubtful whether I have any legal right to do so.

I am not aware that weeds or whole-some water plants have been eradicated from the Tank. Mr Nicholson expresses an opinion that if such as exist in Miller's Tank were to be introduced, the water of the Ulsoor Tank would become clear again. I notice however that, in Mr Nicholson's letter of 1st July 1871 to the Secretary to the Inspector General, Indian Medical Department, it is stated "The muddiness is common to all those tanks about Bangalore in which there are no water plants. I find several tanks out of Bangalore, and without suspicion of sewage contamination, of which the water is quite as opaque as that of the Ulsoor Tank, whilst these thick waters when filtered are much freer from organic matters than the clear water of the Tanks in which water-plants grow. Thus the filtered water of Ulsoor Tank requires but .0007 grm. of oxygen per litre for perfect oxidation, while the clear water of Miller's Tank requires above .0040 grm." From a comparison of the two passages quoted, it does not seem very necessary to go to any expense to introduce the water-plants of Miller's Tank into the Ulsoor Tank: more especially if it be recollected, that Miller's Tank being 1½ miles above the Ulsoor Tank and the Contonment Bazaar being situated between the two, the quality of the water of the first should be infinitely superior to that of the second tank.

As regards the introduction of water-fowls in the Ulsoor Tank, it would be necessary to

to form an island for their protection, as the tank is almost entirely surrounded by public roads. I may mention that two years ago, I introduced some tame ducks with a view to getting rid of the "conferval vegetation which rises to the surface of the water as a green scum" the ducks however declined to eat it.

As the greater length of the roads running round the tank belongs to the Bangalore Municipality some clashing of authority occurs regarding the conservation of the banks of the tank: this difficulty could perhaps be got over by an exchange of roads, if the Madras Government communicated with that of Mysore on the subject.

I confess I am unable to see how the owners of compounds abutting on the borders of the tank can be prevented from manuring their ground. The grass crop in Bangalore is a valuable one and to interdict manuring would be simply to fine heavily all occupiers of ground round the tank.

The question of deepening the tank by removing silt and other deposit is of course one of simple expenditure. Under this category also

for fencing the tank and cleansing the gathering grounds about it. 7 √

I have the honor to be
Sir,
Your most obedient Servant
(Signed) H. H. Wood Capt. R.E.,
Executive Engineer, Bangalore.

No 129.

Dy. Engr's Office, 5th Div.,
Virdachellum 8th September 1871.

Forwarded to Government (with reference to G.O. No 2178 of 24th August 1871) as the remarks of Capt. Wood may be considered worthy of notice when the Government is finally deciding on the water supply of Bangalore Scheme.

Lieut. Nettle Captain R.E.,
Offg. Dy. Engineer, 5th Div.

No 2478.

Ordered that the consideration of this letter, when it will be Communicated to Asst Surgeon Nicholson through the Inspector Genl of the Indian Medical Dept, be deferred pending the receipt of the final reports which are now awaited on the quality of the filtered water of the Ulleroor Tank.

Sept 16th

No 29/9/71

N.

To
Inspr Genl I. M. Dept
Public Dept
Chemical Examiner
Sylth Dept
Sanitary Commr

Rec'd 24th August 1871 No 2478-89.
From Asst Surgeon Nicholson
The Offg. Secy. Govt.
of Madras.
Sanitary Commrs Correspondence,
Rec'd 28th August 1871.
Dated 8th August 1871.
No 129,
Ulleroor Tank.

Submitting for the consideration of Government, a report from the Executive Engineer, Bangalore, on the Ulleroor Tank water, & the Analysis of the Assistant Surgeon, Kilpauk regarding the Cleanliness of the Ulleroor Tank.

Ord 485
Dated 12th Sept 1871. 25th

C- No- 4289 -

Govt of {1871} Madras.

PUBLIC WORKS.

To The Inspector-General of Indian Medical Depts

Dated

Recd. Encl.

G. O. 28th September, No 2478.

Nos. 485 & 486

Elsoor Tank — the consideration of the Supt

Engr's letter ~~enclosing~~ submitting a report from the Executive Engr Bangalore offering certain remarks on the suggestions of Surgeon Keiboban referred pending the receipt of the final report on the quality of the filtered water of the Elsoor Tank —