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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

REVENUE DEPARTMENT

G.O. No.	1592	Press.
B.P. No.		Mis.
Dated	19-3-1877	197 .

Not to be folded or roughly handled

Archives I—10,006—19-4-79.

No. 671. Read the following letter from Major ROSS THOMPSON, R.E.,
Officiating District Engineer to the Chief Engineer for Roads
and Buildings, dated Bangalore, 22nd February 1877, No. 233 :—

In continuation of my letter No. 473, dated 22nd instant, I have the honor to
forward the accompanying copy of the steps taken for sinking wells in the supply of water to the British
troops.

From Major ROSS THOMPSON, R.E., Officiating District Engineer, Bangalore, to the Assistant
Quartermaster-General, Mysore, dated Bangalore, 22nd February 1877,
No. 473.

I HAVE the honor to submit, for the consideration of the Major-General Commanding the
Mysore Division, the following memoranda of wells which have been constructed or
cleared, or are at present being constructed, for the European and Native troops at
Bangalore, since the supply of water from the Tank commenced to fail owing to the
failure of the south-west and north-east monsoons.

I.—A new well has been sunk in the Dumloor Tank, at high water mark.

Depth below ground 22 feet.

Diameter, clear interior, 2 feet.

Contents, 9,322 gallons.

The yield of this well is very constant and the quality appears excellent.

The water is lifted by means of a picottah into a number of half-casks, connected
by split bamboos. It is then lifted out of the casks by pots and poured into water-carts.
This arrangement appears to be wasteful, a great amount of water being spilled. It would,
I think, be better to have the water-carts filled from the well by means of the picottah.
A small tank or large cask could be arranged at a height that carts could be filled from
it by means of a hose, the tank or cask being filled by the picottah.

II.—A new well at high water mark of Dumloor Tank, a short distance south
of No. I.

Depth, 16 feet.

Diameter, clear interior, 2 feet.

Contents in gallons, 4,000.

Supply constant and good.

Quality appears good.

Water raised by picottah with as at Well No. I.

III.— } Three wells in a group on the western side of Dumloor Tank, constructed some
IV.— } years ago, but lately cleared.
V.— }

Depth of each, 21½ feet.

Diameter, clear interior, 2 feet.

Contents in gallons, 9,000.

Supply constant and good.

Quality appears good.

Water raised by hand or leather buckets, and carried away
by puccalies.

The water of Wells Nos. I to V is used by the Field Batteries
of Artillery, and the wells are supposed to be sufficient for them.

VI.—A well near a small chuttry on the eastern side of Dumloor Tank, lately purchased
from natives by the Madras Government.

Depth, 12½ feet.
Diameter, clear internal.
Contents, 1,000 gallons.
Supply constant.
Quality excellent.
Water raised by hand.

Has been hitherto used by the Artillery and Cavalry Hospitals, but I understand they do not do so now.

VII.—A small well in a topographical position south of, Cavalry Hospital, constructed some years ago.

Lately cleared out.
Depth, 23 feet.
Diameter, clear internal.
Contents in gallons, 300.
Supply constant.
Quality excellent.

This well is now being enlarged to a diameter of 12 feet clear internal diameter, and will be carried down as deep as practicable to form a most valuable source of water-supply for the Artillery and Cavalry Hospitals.

VIII.—A small well south of, No. VII. Constructed some years ago.

Lately cleared.
Depth, 21½ feet.
Diameter, clear internal.
Contents in gallons, 300.
Supply constant.
Quality excellent.

Water used in Artillery and Cavalry Hospitals and by Field Batteries. It is expected that when No. VII. has been enlarged it will be sufficient and that it will be unnecessary to enlarge No. VIII.

IX.—A new well south-east of Agram road, close to the causeway over nullah.

Depth, 28 feet.
Diameter clear internal.
Contents, 12,712 gallons.

This well has not apparently been used to any great extent, and does not appear to be guarded. It is conveniently situated for Cavalry and Field Batteries. As the water now in the well has been in it for some time I do not recommend its being used for cooking or drinking. It would be better to use it for bathing, washing, &c., and then to keep the well in constant use, when I doubt whatever the water will be found of excellent quality and the yield abundant. It is in readiness for this well and can be put in working order at any time.

X.—A new well south of Agram road, close to and north of culvert on Agram road.

Depth, 34½ feet.
Diameter, clear internal.
Contents in gallons, 300.
All remarks regarding No. IX are equally applicable to this well.

XI.—A new well near Dhobies' lines, pieces of land lately purchased by Madras Government for Rupees 50 from Mr. S. S. S. S. S.

Depth, 27½ feet.
Diameter, clear internal.
Contents, 1,000 gallons.
Supply constant.
Quality excellent.

This well when completed had a diameter of 12 feet and a supply of 11,017 gallons. It was not, however, taken into use, and has been constantly drawn upon by the villagers of Dhobypettah, the Artillery and Cavalry, and the inhabitants of the Artillery and Cavalry Hospitals.

The yield is abundant, and the quality excellent. This well is, I understand, being now guarded or reserved by the Government. I should not recommend it or any of the other wells being allowed to lie idle, the water would become stagnant and unfit for drinking or cooking purposes. A piccottah is in readiness for this well, and can be put in working order when required.

XII.—A new well in the 36th Regiment Lines, west of the railway road.

Depth, 46 feet.
Diameter, clear internal.
Contents in gallons, 300.
Supply constant and
Quality excellent.

This well has, since its completion, and in progress, been constantly drawn upon day and night by families of the Regiment, raised by means of pots, buckets, &c., attached to strings.

XIII.—A new well, 36th Regiment East of the railway road.

Depth, 62½ feet.
Diameter, clear internal.
Contents in gallons, 300.
The same remarks apply as to No. XII.

XIV.—A new well near solitary cells, Lines.

Depth, 65½ feet.
Diameter clear internal.
Contents in gallons, 800.
The same remarks apply as to No. XII.

XV.—A new well, 23rd N. I. Lines, esjid and near Girls' school.

Depth, 74 feet.
Diameter, clear internal.
Contents in gallons, 500.
Same remarks apply as to No. XII.

The constant drain both night and day of Nos. XII to XV inclusive stand is a proof of their having been well sunk into the water-bearing stratum of the ground. As an additional proof I may mention that so soon as it became necessary to stop work on Wells Nos. XIV and XV, owing to material for being at hand, the wells were covered over and no one allowed to draw water from them. The water level rose to over 10 feet above the bottom, showing the contents of the wells, 6,887 gallons each.

XVI.—A square pit is being dug in the Ulsoor Tank near tank lane for the supply of the Royal Engineers and Queen's Own and Miners.

At the surface of the ground, or tank bed 100 feet square, it descends towards a central point by steps of 3 feet rise and 3 feet excavation is going on in it now at a depth of 18 feet below the tank bed. It is impossible to make more than a rough guess as the amount of water daily drawn from it.

The deepening of this pit has been, and is being, carried on with leisurely, the water being removed as it collects by the families of the Soldiers in the vicinity. The expense of bailing is thus avoided, and the water is all used from the number of water carts, puccallies, and people with pots, who may be engaged in carrying away water, I should think the yield cannot be less than from 5,000 to 6,000 gallons per day.

XVII.—A pit is being dug in the Ulsoor Tank bed for the use of the 45th Regiment S. I. Its dimensions and position are being determined for No. XVI. It has been

Proceedings of the M
26th

excavated to a depth of 15 feet.
The water is at present being rendered unnecessary and the water

XVIII.—A square pit 60 ft. dug near the calingulah of the Uls daily yield is about 3,500 or 4,000

There is every reason to believe water is taken care of and not wasted in the pit and the horse troughs by the Road constantly absent, the water as constant, the inhabitants of the Ulsor village or which have come under my own person

XIX.—Deep excavations are being made in the rock, from which water will be passed to the tank bed, along the foot of the Ulsod the suction pipe of the steam pump. The yield is at present between 3,000 and 4,000 gallons per day, but I have no doubt, when the excavations have been deepened and extended, the yield will be doubled or trebled.

Advantage has been taken of the tank being quite dry to arrange the suction pipe of the steam pump, and the pipe leading from the tank to the clear water basin at the Ulsod on better supports than they have had on the solid rock.

I have no doubt that the water now available is only sufficient for the troops and the Dhobies wells, say 1,000 gallons per day, prove sufficient for the troops for the next four months, say to end of June; but it is to be hoped that before the end of June the tank will have received a supply sufficient to remove all further anxiety and to remove the necessity of further wells or pits unnecessary

In the meantime, however, economy is being exercised in the use of water. The supply now available is only sufficient for the troops and the Dhobies wells, say 1,000 gallons per day, prove sufficient for the troops for the next four months, say to end of June; but it is to be hoped that before the end of June the tank will have received a supply sufficient to remove all further anxiety and to remove the necessity of further wells or pits unnecessary

The "contents in gallons," given at the time of sounding them, and do not allow to remain idle.

No. 672.

ORDER THAT

MILITARY WORKS, No.

To the District Engineer, Bangalore.
" Military Department.

" Revenue Dept.

Exd. S. T. Austin.

1 Spare Copy

ic Works Department,
667.

about 2,000 gallons, probably more, who comes for it, as bailing is the

by steps to a central point has been to supply the Horse Artillery. The

continue and will be sufficient if the alternative sentries or guards put over the tank bed, along the foot of the Ulsod the suction pipe of the steam pump. The yield is at present between 3,000 and 4,000 gallons per day, but I have no doubt, when the excavations have been deepened and extended, the yield will be doubled or trebled.

being quite dry to arrange the suction pipe of the steam pump, and the pipe leading from the tank to the clear water basin at the Ulsod on better supports than they have had on the solid rock.

Their supports are now all founded on the solid rock.

and to be obtained from the wells and pits from the Dhobies wells, say 1,000 gallons per day, prove sufficient for the troops for the next four months, say to end of June; but it is to be hoped that before the end of June the tank will have received a supply sufficient to remove all further anxiety and to remove the necessity of further wells or pits unnecessary

well, are the amounts of water actually found at the time of sounding them, and do not allow to remain idle.

February 1877, No. 667.

RECORDED in continuation of G.O. No. 509, of the 15th February, and communicated to the Military Department.

(tract.)

(ed) W. FAREWELL, Colonel,

Acting Joint Secretary to Government

Copy
Col
1 Copy to Col.

1592

7/3

Revenue Dept
No 1801

dt. of 1877
PUBLIC WORKS.

THE DISTRICT ENGINEER
BANGALORE
80, 80, 80.

Dated February 27th.

Issued

Recd. 17 March

G. O. 27th February 1877, No. 602

[Signature]

FEBRUARY.

Nos. 671-672.

Wells in the vicinity of the Artillery and
Cavalry Lines at Bangalore.—Report from
the District Engineer of the steps taken in
sinking —, recorded and communicated to
the Military Department.

1. 1592
Comm. to the
Board of Revenue
and Sanitation

1. 1. the R.D. of Bangalore 2. 2. 77