(1) பக்கங்களின் எண்ணிக்கை 20

(2) புதுக்கித் திருப்பிய நாள் June 90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

(88)

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P. W. D. துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 3069

அச்சகம்
பலவகை

நாள் : 30 — 10 — 1889 19

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

10 Sheets

ஆவகா. கா-1—18,006—15-6-87.

3069

30TH OCTOBER 1889, No. 3069 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From Colonel W. H. BURTON, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 19th October 1889, No. 4698.

With reference to G.O., No. $\frac{1213\ W}{A.}$, dated 7th May 1889, I have the honor to report that Mr. deClosets has succeeded in reaching a depth of 441 feet, when he has met with lime-stone rock, but the boring is not lined to within a considerable distance of this depth with iron tubing, consequently to go through sand and lime-stone in it will be necessary to put down a tube of long length which is, as may be supposed, likely to be expensive.

2. Being doubtful as to the quality of the water obtainable from the 40′ boring, I have had it analysed, and enclose the report which, though not conclusive, is not satisfactory in regard to the purpose for which this water is wanted.

3. Under all circumstances, I would ask for orders to close the work at once.

ENCLOSURE.

			Water collected from the second boring of the Artesian well near Tamarapak anicut.
Total solids	Grms. per litre		0·530
Volatile solids	Do.		0·090
Chlorine	Do.		0·064
Total hardness	Clark's scale		2°·800
Permanent hardness	Do.		0°·700
Free ammonia	Mlgrms. per litre		trace
Albumenoid ammonia	Do.		0·144
Nitric acid	Do.	(as ammonia)	0·360
Apparent quality of the water as inferred from the results obtained on examination.			?

Remarks.—The figures obtained are higher than the limits allowed for a 'usable' water. No definite opinion can be given, however, as to the potability of this water, without information as to the nature of the strata through which the boring has been carried and the probable source of the water which has been tapped.

(Signed) J. L. VANGEYZEL, M.B., C.M., F.C.S. and F.I.C.
Ag. Chemical Examiner.

From Colonel W. H. BURTON, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 25th October 1889, No. 4894.

With reference to your memo., No. 4780 C., dated 19th October 1889, I have the honor to state that from an interview I have had with Mr. deClosets, coupled with the purport of his letter of the 10th October to the Executive Engineer, that I do not expect he will be able to reach the depth of 450 feet; to do so will require the insertion in the bore hole of a considerable length of $6\frac{1}{2}$″ pipe in order to pass through the sandy stratum and thence into the lime-stone just found at 441′, and he says he

wants some specially made boring tools for 6½" pipe; also he is now breaking crab winch, or rather it is now breaking. I enclose his last letter above referred to, which I have received.

ENCLOSURE.

From A. P. DECLOSETS, Esq., C.E., to the Executive Engineer, Chingleput, dated Káraní, 10th October 1889.

I have the honor to inform you that, after the arrival of the shot shell repaired in Madras, the boring was resumed, but was delayed owing to the breaking of several teeth of the cog wheel of the small winch which necessitated some repairs; it would have been well to replace this cog wheel by a new one having more substantial cogs, but I managed to put it at work again to save time and expense.

2. When at 441 feet deep I begun to experience some difficulties in boring, but after a few days I have ascertained that we came in contact with some lime-stone bed, as the debris extracted were effervescing when tested with an acid.

3. There was some difficulty in arriving at that result owing to the process of boring disintegrating the stratum, which at 440 feet is more sandy, and causing the sand to fall upon the lime-stone bed to an height of about 2 feet.

4. Therefore it was considered to continue the boring; it would be necessary to insert an inner pipe of 6½ or 6¾ inches diameter in the actual bore hole so as to pass the boring through the sand at 441 feet and to have some few tools of such size as to meet the new diameter of the pipe, the other implements, such as rods, &c., remaining as they are.

5. The bed of lime-stone met seems to be a white carbonate of unknown thickness.

6. The water in the bore hole stands at 2' 6", but it is possible that owing to the monsoon the water may overflow the ground.

7. As Rs. 500 were sanctioned for boring from 420' to 450', if the boring was to be discontinued, I have the honor to ask that the balance of Rs. 167 should be kindly allowed to me in compensation for the delays I have experienced during the time occupied by the repairs of the shot shell and of the cog wheel so as to assist me in the payment of the workmen I have employed during that time.

ORDER—dated 30th October 1889, No. 3069 W., Public Works.

In the circumstances stated, the Government is not prepared to continue the experimental Artesian boring in the Kortalayár valley, and the work should accordingly be closed.

2. As it is proposed to make an experimental boring at Tuticorin, the Superintending Engineer, V Circle, will, without delay, submit a list of plant available for transfer from Káraní to the former place.

3. The Superintending Engineer will report whether Mr. deClosets should be allowed any part or the whole of the Rs. 167 applied for by him, to compensate for the cost of repairs to tools and payments to workmen maintained while the work was suspended.

(True Extract).

Captain, R.E.,
Under-Secy. to Govt., P.W.D.

To the Superintending Engineer, V Circle.
" Superintending Engineer, VI Circle.
" Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.
" Revenue Department.
" Local and Municipal Department.

Exd. A. Aubert.
Spare Copies

3069

2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1889} Madras.

PUBLIC WORKS.

Dated October, 30th.

Recd. *Encl.*

G.O., 30th Oct. 1889, No. 3069 W.

OCTOBER.

Artesian boring in the Kortalayar Valley

Orders directing the closing of the experimental —, and the Superintending Engineer asked to submit a list of plant available for transfer to the experimental boring at Tuticorin and also to report whether Mr. deClosets should be allowed any compensation for cost of repairs to tools and payment to workmen while work was suspended,

110

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Chepák, 19 October 1889.

No. 4698.

From Colonel W. H. Burton RE. 3069
SUPERINTENDING ENGINEER, V CIRCLE,

To
THE Chief Engineer
B&C Department.

SIR,

Enclosures. 1

With reference to G.O. No 12134 W. dated 7 May 1889, I have the honor to report that Mr. DeCloseto has succeeded in reaching a depth of 661 feet, when he has met with lime stone rock but the boring is not lined to within a considerable distance of this depth with iron tubing consequently to go through sand and lime stone in it will be necessary to put down a tube of long length which is as may be supposed likely to be expensive.

2. Being doubtful as to the quality of the water obtainable from the 40' boring I have had it analyzed and enclose the report which though not conclusive is not satisfactory in regard to the purpose for which this

3 water

water is wanted.

3. Under all circumstances I would ask for orders to close the work at once.

P-395

I have the honor to be
Sir
Your obedt Servt

W H Hamilton Collr
Supt'g: Engineer & Circle

3069

2nd

Water

| | | |

P 392

96 5/1/21/6 1889.

From 30131

THE CHEMICAL EXAMINER,

Madras.

No. 659.

Dated 19th } August 1889.
Received }

ENCLOSURES.

To

THE *Superintending Engineer*
V Circle.

REFERENCE.

Your *Letter* No. *188-C.* dated *12th August 1889.*

SUBJECT.

Has the honour to supply analysis of a sample of water as requested.

W Hamilton Dr. B.C.M. 7.65 and F.S.6.

Ag: Chemical Examiner.

3P

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Chepák, 25th October 1889.

No. 4894

From *Colonel W H Burton* Rs. 3069
SUPERINTENDING ENGINEER, V CIRCLE,

To

THE *Chief Engineer*
P.W. Department

SIR,

Enclosures.

With reference to your Memo No. 4780 C dated 19th October 1889, I have the honor to state that from an interview I have had with Mr. DeCloset — coupled with the purport of his letter of the 10th October to the Executive Engineer that I do not expect he will be able to reach the depth of 450 feet, to do so will require the insertion in the bore hole of a Considerable length of 6 1/2" pipe in order to pass through the sandy stratum and thence into the lime-stone just found at 441' and

X 6 he

he says he wants some special-
ly made boring tools for 6 1/2 pipe,
also he is now breaking crab
winch, or rather it is now break-
ing. I enclose his last letter above
referred to, which I have received.

I have the honor to be
Sir
Your Most Obed't Servt

W. W. Burton
Capt. R.E.
Supt'g: Engineer & Clerk

3069

From P.W.Cr. No. 182

The Supdg Engineer

5th Circle.

To

The Chief Engineer

P.W. Department

No 463 M d/26-4-87 } to M.
" 1351 S " 26-5-87 }
" 3196 d/5-2-87
" 1213 W / a d/7-5-87
" 4071 C d/12-8-87
" 4780 C d/18-10-87

Dated 25th } October/89.
Rect. 29th }

Encl 1.

No 4894.

Artesian Boring at Karakellayer.

States that Mr. Dell Hay will not be able to reach the depth of 450 Ft.

Karaikal 10 Oct 89

Enclosure

To Lt H.B. Burdon Esqr 3069 4.30

Executive Engineer, Chingleput,

at St Thomas Mount

Sir

I have the honor to inform you that after the arrival of the chol shell repaired in Madras, the boring was resumed, but was delayed owing to the breaking of several teeth of the Cog wheel of the small winch which necessitated some repairs, it would have been well to replace this cog wheel by a new one having more substantial cogs but I managed to put it at work again, to save time and expense.

When at 441 feet long deep I began to experience some diffienltics in boring but after a few days I have ascertained that we came in contact with some lime stone bed, as the debris extracted were effervescing when tested with an acid

There was some difficulty in arriving at that result owing to the process of boring disintegrating the stratum. which at 440' is more sandy and causing the sand to fall upon the lime stone bed to an height of about 2 feet.

Therefore it was considered to continue the boring, it would be necessary to insert an inner pipe of 6"/2 or 6 3/4 inches diameter in the actual bore hole so as to stop the boring through the sand at 441' and to have some few tools of such size as to meet the new diameter of the pipe, the other implements such as rods &c remaining as they are.

The bed of lime stone met seems to be a white carbonate of unknown thickness.

68

The

The water in the borehole stands at 2'6", but it is possible that owing to the monsoon the water may overflow the ground.

As 500 Rupees were sanctioned for boring from 400' to 450' if the boring was to be discontinued, I have the honour to ask that the balance of 167 Rupees should be kindly allowed to me in compensation for the delays I have experienced during the time occupied by the repairs of the chot shell of the contractor so as to assist me in the payment of the workmen I have employed during that time.

I have the
honour to be
Sir
Your most obedient
humble Servant
(Sd) W. Bourdillon
Capt.
Supdg: Engineer
5th Circle

(True Copy)
W. Bourdillon
Capt. R.E.
Supdg: Engineer
5th Circle

Ent
PW 10182
87

B.P.R.
Works

No 3069 W

PUBLIC WORKS DEPARTMENT.

3069

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the Oct 30, 1887

READ the following

From the S.E. V Circle No. 4698 dy 21-10-87
" " " " 4894 dy 25-10-87

In the circumstances stated, the Govt. is not prepared to continue artesian. the experimental boring in the Kantalagan valley, at Karaur, and the work should accordingly be closed.

2. As it is proposed to make an experimental boring at Tuticorin, the S.E. V Circle will, without delay, submit a list of plant available for transfer from Karaur to the former place.

Mr. Bourdillon seems to have spent Rs 333 under Head 16 of Rs 167 should be spared to him what about this.

16/1
30 Oct

The S.E. will be asked to report whether he should be allowed any part of the Rs 167 for compensation for the repair of tools & plant of workmen maintained during the work

S.E. V Circle
S.E. VI Circle
Ch. E. for Press
Ex Master
Rly. Dept
Local & Munl Dept

Draft
30.10

Under
29.10.87
Rudd
29.10.87

Ch

70

3. The Supdt Engr will report whether he considers he should be allowed any amount on the whole, of the Rs 167 applied for by him, to compensate for the cost of repairs to tools, and payments to workmen maintained while the work was suspended.

30-10-87

30.10.87

3069

6

19

Govt. of 18 | Madras.

PUBLIC WORKS.

Date

Rec'd

Encl.

G.O., 30 Octr 1889 No. 3069 W

Artesian boring in the Kortalayar valley

140/1

Orders directing the closing of the experimental — & the Supdg Engr asked to submit a list of plant available for transfer to the experimental boring at Tuticorin & also to report whether Mr. ~~Robb~~ de Loosts should be allowed any compensation for costly repairs to tools & augment to workmen while work was suspended.

(10)

31/10