

Public Works (189ⁿ) Department.

G.O., No. 10810 *ES*

DATED *29 April 1898*

[Despatch Abstract.]

Artesian Boring Operations at Place's Tandu
Prod. Financial Dept sanctioning a
further grant of Rs. 6000 in aid of the
Committee to S.E. of the & the Engineer P.W. Dept.

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Artesian Boring Operations at Place's Garden

Sanctioning a further grant of Rs. 1,000 from savings under 45. Civil Works—Public Works Department in aid of the —.

5/10/11

GOVERNMENT OF MADRAS.
FINANCIAL DEPARTMENT.

READ—again the following papers:—

G.O., No. 296, Financial, dated 28th April 1896.

ABSTRACT.—Sanctioning a further grant of Rs. 1,000 in aid of the artesian boring at Place's Garden.

G.O., No. 634, Financial, dated 13th August 1897.

ABSTRACT.—Recording further report on the progress made in the artesian well works in Place's Garden, Chingleput district, received from the Reverend S. Dominic, Superior of the Monastery there.

READ—also the following papers:—

From the Reverend S. DOMINIC, Superior of the Monastery, Place's Garden, Kilacheri, to the Chief Secretary to Government, dated Madras, 30th December 1897.

In continuation of my letter of the 31st July last, I have the honour to report on the artesian boring in Place's Garden since the 10th July 1897, up to which date I have had the honour of furnishing Government with a detailed report as to cost and outturn of work.

2. Work of boring was continued and great difficulty was experienced throughout the operation. The total depth of boring reached up to date is 394 feet and pipes were sunk to a total depth of 380 feet.

3. In appending, for the information of Government, Statements A and B showing progress and cost of work and the different strata of earth passed through, I have the honour to request that Government will be pleased to sanction further grant in order to resume the boring operations to the full depth of 451 feet already recommended by Dr. King.

ENCLOSURE A.

Artesian Well Works, Place's Garden.

STATEMENT showing progress of work and cost of boring, &c., at the different stages of work.

Date of work.	Description of work.				Total depth of		Cost.	Remarks.
	Deepening.	Widening for pipes.	Sinking pipes.	Boring.	Widening for pipes.	Pipes sunk.		
	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	RS. A. P.	
1897.								
Total on 10th July	0 0½	0 2½	..	388 1½	385 9	376 0	6,235 0 4	Great difficulty was experienced in deepening and widening the bore hole owing to rocky nature of the soil.
September 7th to 11th	..	..	..	388 2½	385 11½	376 0	22 13 0	do.
Do. 14th to 18th	0 3	0 1	..	388 5½	386 0½	376 0	22 13 0	do.
Do. 20th to 25th	0 7½	0 1	..	389 0½	386 1½	376 0	27 6 0	do.
Do. 27th to 2nd October	0 4½	0 1	..	389 5½	386 2½	376 0	24 5 0	do.
October 6th to 9th	0 1	0 1	..	389 6½	386 3½	376 0	15 3 0	Do. On the 2nd October the 20th rod was broken at the screw end, the male screw portion having been caught in the female socket. The rods were taken out from the bore hole with very great difficulty.
Do. 12th to 16th	0 2½	0 2	..	389 8½	386 5½	376 0	23 14 6	Do. Deepening and widening, still difficult.
Do. 18th to 23rd	1 2½	0 2	..	389 8½	389 2½	376 0	27 6 0	Do. Do.
Do. 24th to 30th	1 2	1 2½	..	390 11½	390 4½	376 0	15 9 0	Do. Not so difficult in boring down.
Do. 2nd to 6th	2 0	2 0	..	392 11½	392 4½	380 0	22 2 6	Do. One pipe 4 feet in length was sunk.
November 8th to 13th	1 0½	..	..	394 0	392 11½	380 0	25 6 0	Do.
Do.							6,461 14 4	
					Total Expenditure ..		6,463 0 0	
					Total Receipts ..		1 1 8	
					Balance on hand ..			

ENCLOSURE B.

STATEMENT showing the different strata of earth met with and their thickness.

Stratum number.	Strata of earth passed through.	Thickness of stratum.	Total depth from surface of ground.		Remarks.
			FT.	IN.	
64	Black clay ..	5 10½	394	0	Black clay mixed with cement-colored clay is met with at this depth and is of a very hard texture.

No. 318, FINANCIAL, 29TH MARCH 1898.

Endorsement No. 174.

Referred to the Public Works Department for remarks.

FORT ST. GEORGE,
24th January 1898.

(Signed)

M. E. COUCHMAN,
Ag. Assistant Secretary.

No. 625-C.

Referred to the Superintending Engineer, V Circle, for favour of report as to whether the prospects of the work are such that a further Government grant may be recommended.

2nd February 1898.

(Signed)

W. B. DEWINTON,
Ag. Chief Engineer.

From J. P. DAVIDSON, Esq., Executive Engineer, Chingleput Division, to the Superintending Engineer, V Circle, No. 3720, dated 3rd March 1898.

I have the honour to return your endorsement, No. 95-C.N., dated 15th February 1898.

2. I visited Father Dominic's work on the 18th instant, but I am quite unable to supply any facts in addition to those he gives in support of any additional grant.

3. The boring has, as stated, reached a depth of 394 feet and the stratum now arrived at is a black clay of excellent appearance; there is, however, nothing to indicate that the requisite conditions for a successful artesian well exist.

4. The question is more one for the geologist than the engineer, and, as both Dr. King and Mr. Bruce Foote have recommended that the borings be taken down till rock is reached, it would perhaps be as well to continue the borings till a depth of, say, 440 feet to 450 feet is reached—*vide* Dr. King's letter, No. 1680, of 19th November 1892, printed with G.O., No. 1419, Financial, dated 29th December 1892.

5. I make this recommendation partly on the principle that, having once started a work of this kind, it is as well to see it through, and I gather that 450 feet was the depth originally decided on, and partly because from a geological point of view the boring to this additional depth is likely to give interesting results. Of the work being satisfactory as an artesian well, I am decidedly sceptical and, speaking merely as a Public Works Department officer, I should say that the boring had gone deep enough. It is for Government to decide whether for the reasons given above they are prepared to give an additional grant.

No. 163 W.

To the Chief Engineer, Public Works Department, with reference to his No. 625-C, dated 2nd February 1898, herewith returned. The question of making a further grant must be settled by Government. I can give no opinion, as I do not know their wishes.

8th March 1898.

(Signed)

C. C. RAWSON, Colonel, R.E.,
Superintending Engineer, V Circle.

Endorsement No. 1728-C.

Transferred to the Financial Department, and the referred papers returned.

2. The undersigned considers that it would be a pity to abandon the work at its present stage and that, if funds are available, it would be advisable to make a further grant-in-aid.

21st March 1898.

(Signed)

W. B. DEWINTON,
Ag. Secy. to Government.

No. 318, FINANCIAL, 29TH MARCH 1898.

ORDER—No. 318, Financial, dated 29th March 1898.

A further grant of Rs. 1,000 is sanctioned from savings under 45. Civil Works—Public Works Department. The amount should be drawn before the close of the current official year

(True Extract.)

23. Robert
for Chief Secretary.

To the Reverend S. Dominic.
" Public Works Department.
" Accountant-General.
" Superintendent, Geological Survey.

1776 C ay 23.3.98.
 1728 C . 21.3.98.
 1334 C . 5.3.98
 625 C . 2.2.98

B. 2476 W . 6.9.97
 - 1606 W 27.5.96
 1817 C . 2.4.96.

B. 55 W 12.1.95.
 3691 C . 8.12.94
 1623 W . 29.6.94
 9308 . 27.9.93.

A 716 W . 15.3.93

B 80 W . 16.1.93
 115 W . 12.1.92
 3313 W . 9.12.91

4912 C . 7.11.91
 2939 W . 2.11.91
 2607 W . 30.9.91

4247 C . 20.9.91
 2366 W . 5.9.91
 2309 W . 22.8.91.

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 2309 W . 22.8.91.

In antenna boring at Korkelugor, Tadjikistan