

Govt. of {1891} Madras.
FINANCIAL.

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G.O., 13th October 1891, No. 1036.

OCTOBER.

S. C. W. Circle 23/11
L.S.

Artesian Boring Operations.

Thanking the Revd. Father S. Dominic for his report on the — at Place's Gardens, Kilacheri, Chingleput district, and communicating it to Mr. Bruce Foote and the Public Works Department.

with order

5/11

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—the following paper :—

From the Revd. S. DOMINIC, Catholic Priest, to the Chief Secretary to Government, dated Place's Garden, Kilacheri, 22nd September 1891.

In accordance with G.O., dated 24th July 1891, No. 639, Financial, I have the honour to forward a detailed report on the artesian well boring at this place, together with a Statement (A) showing progress of work and cost of borings, &c., as also a Statement (B) showing the different strata of earth met with in the borings, for the information of Government.

2. It will be observed that work to the end of December 1890 only is shown in the report. No work has been done all this year owing to want of funds.

3. As Government has been pleased to sanction a further grant of 500 rupees towards this work, I hope to be able to resume operations as soon as the Superintendent comes.

4. I beg to thank Government for this grant of 500 rupees, as also for the loan of a strong winding drum through the Public Works Department, which I hope to receive shortly.

ENCLOSURES.

DETAILED Report on the Artesian Well Boring at Place's Garden, Kilacheri, Chingleput district, drawn up to 17th December 1890.

I have ventured upon trying the experiment of boring an artesian well in this garden,* as a source of water-supply for irrigating the extensive waste lands for the benefit of the monastery and orphanage located here.

* Situate in latitude 13° 2', longitude 79° 54' on the right bank of the Cooum river, in the old valley of the Palār river, immediately below and to the north of the large tank near the Cooum village.

A site in the south-eastern portion of the garden and close to the monastery and orphanage buildings was selected, as it was thought that water tapped could be advantageously conveyed to the several fields adjoining, as also being close at hand for frequent supervision. The preliminary arrangements for the work were made in the early part of the year 1886, and actual boring commenced on the 1st May of the same year. It was arranged that the boring should be tried to a depth of 300 feet, or thereabouts, with tubes of 7½ inches diameter. The services of a Superintendent from Pondicherry, one Alagyanadha Odiar, were secured on a monthly salary of Rs. 100, working days alone being taken into account; the Superintendent has agreed to supply necessary tools required up to a depth of 150 feet, and I have arranged for all materials and labour. The work was started at the surface of the ground, the diameter of the bore being 7½ inches.

A large shed in the shape of a quadrilateral pyramid was erected, the base of this measuring 33×29 feet, light and ventilation having been provided on one side at the top; access is had to the top of the scaffolding by means of a ladder fixed to the framework. In the centre of this shed there is a rectangular, wooden framework measuring 14½×12½ feet and resting on the ground; from the four angles of this framework rise four inclined legs of red-wood supporting a small rectangular frame 4×2 feet at their tops, where a double pulley of iron 18 inches in diameter is suspended. The height of the block is 25 feet above the ground level. The rods are lifted and let down by means of iron chains passed round the pulley and worked by a crab winch, the cylinder of which is a little over 12 inches in diameter. The power of this winch has been

The different strata of earth that were met with, and their thickness, are detailed in the statement marked B, as well as in the drawings, showing the section of the boring. Specimens of soil obtained from the boring are also fixed in the order of succession of the various strata and according to scale, to three small boards. A core box containing specimens of good size is also maintained as has been suggested by Mr. Bruce Foote (G O., dated 2nd August 1889, No. 487, Financial Department).

Date of work.	Description of work.			Depth at which work is progressing.			Cost.	Remarks.			
	Deepen- ing.	Widening.	Sinking pipe.	Total depth of boring.	Total depth of widening.	Total depth of pipes sunk.					
1886.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	RS. A. P.		
May 1st to Nov. 26th.											
1887.	..	..	..	152	0	148	0	140	0	*1,090 5 2	
Feb. 1st to Apr. 29th.										*This amount in- cludes cost of constructing shed, fitting frame work and supervi- sion up to 29th April 1887. Thirty- five tubes, each 4 feet long, were sunk up to date.	
1888.											
Nov. 2nd and 3rd.	4	0	1	0	..	156	0	149	0	Do.	20 11 0
" 5th to 10th.	5	0	10	0	..	161	0	159	0	Do.	70 10 0
" 12th to 17th.	4	0	4	6	..	165	0	163	6	Do.	69 14 6
" 27th to 30th and Dec. 1st.	5	7	1	6	..	170	7	165	0	Do.	49 13 8
Dec. 3rd to 8th.	5	11	6	1	..	176	6	171	1	Do.	63 3 0
" 10th to 15th.	6	2	11	7	..	182	8	182	8	Do.	63 9 6
" 17th to 22nd.	9	4	1	0	..	192	0	183	8	Do.	63 9 6
" 24th and 26th to 29th.	6	3	10	11	..	198	3	194	7	Do.	84 14 6
											Night work exe- cuted on 27th 28th and 29th.

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.	
		FT.	IN.	FT.	IN.
1	Vegetable mould	8	0	8	0
2	Brown clay	2	0	10	0
3	Yellow clay and sand	4	0	14	0
4	Sand with much water	26	0	40	0
5	Sand mixed with pebbles	42	0	82	0
6	Yellow clay and fine sand	2	0	84	0
7	Yellow clay and coarse sand	2	6	86	6
8	Stiff clay mixed with yellow ochre	21	6	108	0
9	Yellow clay and fine sand	2	0	110	0
10	Blue clay	4	0	114	0
11	Dark clay	1	0	115	0
12	Hard black clay	2	0	117	0
13	Clay and sand	1	0	118	0
14	Hard black clay	30	0	148	0
15	Black clay mixed with lime	4	0	152	0
16	Black clay	3	0	155	0
17	Black clay mixed with lime	4	0	159	0
18	Clay mixed with white sand	2	0	161	0
19	Black clay	2	6	163	6
20	Clay mixed with lime	1	6	165	0
21	Clay mixed with white sand	2	0	167	0
22	Black clay mixed with lime	8	0	175	0
23	Lighter coloured clay mixed with lime	4	0	179	0
24	Clay and lime	5	0	184	0
25	Black clay	10	6	194	6
26	Lighter coloured clay	2	6	197	0
27	Clay and lime	1	0	198	0
28	Black clay	3	0	201	0
29	Clay mixed with lime	4	9	205	9
30	Black clay	16	3	222	0
31	Lime stone	1	0	223	0
32	Black clay	3	6	226	6
33	Black clay mixed with white clay	1	0	227	6
34	Clay of cement colour	2	0	229	6
35	Black clay	2	6	232	0
36	Clay of cement colour	4	0	236	0
37	Black clay (tending to cement colour)	6	0	242	0
38	Clay of cement colour (little darker)	2	0	244	0
39	Clay of cement colour not so dark	3	6	247	6
40	Black mixed with cement colored clay	2	6	250	0
41	Black clay	7	0	257	0
42	Black clay with white scales	6	0	263	0
43	Hard black clay of darker colour	9	5	272	5

ORDER—dated 13th October 1891, No. 1036, Financial.

The Reverend Father S. Dominic will be thanked for his report, which will be communicated to Mr. Bruce Foote and the Public Works Department.

2. The Government regrets that it has been found impossible to supply the winding drum.

(True Extract.)

W. Mendie
for Chief Secretary.

To the Revd. S. Dominic.
" Superintendent, Geological Survey.
" Public Works Department.
" Collector of Chingleput.

Esd. A. Raitt.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper :—

G.O., dated 14th October 1891, No. 962, Revenue.

Read—G.O., dated 29th September 1891, No. ²⁶⁰³_{A.} W., Public Works.

Order—dated 14th October 1891, No. 962, Revenue.

The Government entirely concurs in the Chief Engineer's remarks in paras. 20 to 22 of his note of the 22nd September last. It is of course essential that the Collector, who is the chief officer responsible for the conduct of relief in a district, should be entitled to inform himself as to the way in which relief works under the Public Works Department are conducted, but the deputation of petty revenue subordinates to pry into the doings of the department is utterly wrong, and the acceptance of their statements without reference to the higher officers of the department and the forwarding of them in their untested and crude shape to the Board and the Government is opposed to all recognized principles of administration. His Excellency the Governor in Council is accordingly pleased to lay down the following rules for observance by Civil officers :—

(1) No complaints by coolies on relief works under the Public Works Department should be received by any Civil officer below the rank of Deputy Tahsildar, it being understood that complaints must be made to such officers in person and not through peons, clerks or other subordinates.

(2) Any Civil officer receiving such a complaint should *at once* communicate it to the Public Works subordinate concerned and to the Executive Engineer of the division or to the Sub-divisional officer if the latter is an Assistant or Sub-Engineer.

(3) If in any reports to the Board or the Government allusion is made to complaints of delay in payment of wages by the officers of the Public Works Department, &c., such allusion should be confined to a mere statement of the number and nature of the complaints made and the period of time which elapsed since they were first received and forwarded to the responsible officer of the Public Works Department for disposal.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

ORDER—dated 23rd October 1891, No. 2786 W., Public Works.

Communicated to officers of the Public Works Department for information and guidance in continuation of G.O., No. $\frac{2603}{A}$ W., dated 29th September 1891.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineers, IV and V Circles.
,, other Superintending Engineers, } with copy of G.O., No. $\frac{2603}{A}$ W., dated 29th Sept. 1891.
,, the Consulting Architect,
,, the Chief Engineer for Irrigation,

GENERAL.
ACCOUNT.

Gobt. of {1891} Madras.
PUBLIC WORKS.

Dated October, 23rd.

Recd.

Encl.

G.O., 23rd Oct. 1891, No. 2786 W.

2934 W 2/10/91

OCTOBER.

Relief works in the Chingleput
and North Arcot districts

Proceedings in the Revenue Department
laying down certain rules for the guidance
of Civil officers with regard to complaints
made by them against Public Works officers
as to the delay in the payment of wages to
coolies on —.