(1) Number of pages 24

(2) Date of repair 1-8-86

(3) Initials of the Referencer lcw

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public works DEPARTMENT

G.O. No. ~~B.P. No.~~	1003(W)	Press. ~~Mis.~~
Dated	28-2-1878	~~197~~ .

247

Not to be folded or roughly handled.

Archives I—10,006—19-4-79.

1003/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

28th February 1878, No. 1,003 W.

Buildings and Roads.

Military Works.

Read the following paper:—

No. 325. Proceedings of the Madras Government in the Military Department, dated 15th February 1878, No. 808.

No. 326. Order thereon, 28th February 1878, No. 1,003 W.

The under-mentioned estimates are sanctioned for immediate execution:—

	RS.		
1. Sinking a well [illegible] the lines of the 25th Regiment Native Infantry at Cannanore	860	No. 109 B	of 1877-78.
2. Deepening a well in do. do.	305	No. 110 B	
	1,165		

2. The District Engineer will report the amount that is likely to be spent during the current official year when the necessary appropriation of funds will be made.

3. This sanction has been registered as Imperial and numbered as shown above.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.

To the District Engineer, Malabar.
" Examiner of Public Works Accounts, with Estimates.
" Military Department.

Exd. E. C. Shunker.

Spare Copies

BUILDINGS AND ROADS
MILITARY WORKS

Govt. of [1878] Madras
PUBLIC WORKS.

To

The DISTRICT ENGINEER
MALABAR.
&c., &c., &c.

Dated February [illegible]

From

To

[illegible]

SUMMARY.

Nos 375/203.

[illegible]

No. 176 — Cannanore 4th December 1877

From
Colonel W. A. Gib
Commandant 25 Regiment N. I.

To
The Dy. Asst. Quarter Master General
Malabar & Canara
Cannanore.

[illegible]

Sir 1003/1A

I have the honor to state for the information of the Brigadier General Commanding that during the hot weather months there is always a very great scarcity of water (drinking water) in the Lines of the Regiment under my Command. I have been here five seasons myself and each year I have seen the same thing, viz. that literally the women have gone all over the station begging borrowing and in some instances, I am afraid stealing water to drink.

2. When His Excellency the Commander-in-Chief was here in November 1876, I pointed out this deficiency to him, and he took note of it, but as no orders have been issued on the subject I request the Brigadier General will aid me with his influence in having two or three wells sunk in or near the Lines before the hot season sets in.

I have the honor to be
Sir
Your Most Obedient Servant
W A Gib Colonel
Commandant 25 Regiment N. I.

✓

(Dy. Asst. Qr. Mr. Genl's Offi
Cannanore 5th Dece

No. 1994

Forwarded to the Assistant Engineer for
whether it would be of any material benef
existing wells were thoroughly cleaned out
2 – Should it be considered desirable to sink
New Wells, the Sites proposed for them to
reported.

—To be returned—

(By Order)

W. [illegible] Capt.
for Dy. Asst. Qr. Mr. Genl.

From
Commandant
25th Regiment N.I.
To
The Dy. Asst. Qr. Mr. General
Malabar & Canara
Cannanore
No. 178
Cannanore 4. December 1877

Suggests that two or three new Wells be sunk near the Lines on account of scarcity of drinking water in hot weather months.—

A. 6588

603/2

General No. 20 of 1877-78.

ESTIMATE OF THE PROBABLE EXPENSE OF Sinking a well 9 feet in diameter in the lines of the 25th Regiment M. N. I. at Cannanore. Rs. 860 " "

Taluq.	Name of Work.	Number.	Measurement. Length.	Measurement. Breadth.	Measurement. Depth.	Superficial Content.	Cubical Content.	PARTICULARS.	RATE.	Amount of Each. Article.	Amount of Each. Work.	By whom Recomended.	REMARKS.
Chirakal	1003							30 Poles of digging well	4 " " Pole	120 " "		Applied for in S/ Asst. Sa. Sr. Gen. Le. No. 1954 of 1st December 1877.	
		1×10·5×3·1416×1·5×35					1731·82	Steining at Bottom 35' and 18" broad					
		1×·7·75×3·1416×·75×35					804·05	Steining at top 35' and 9 inches broad					
		1×12·5×3·1416×1·5×3					148·44	Parapet					
		15½ 17×3·1416×5×1/2					365·11 400·55	Paving round the well					
							3044·50 3084·84	Cft.					
						or say	3050 3085	Cubic feet of Masonry	18 " " 100 cft.	540 " " 555 4 [illegible]			
						3		[illegible] of Pointing with Cement [illegible]	[illegible]				
								Clearing away rubbish		50 " "			
								Baling water		50 " "			
								Total		775 " " 784 4 10			
								Sundries and Superintendence about 10 per Cent		82 " " 75 " 2			
											860 " "		
								TOTAL RUPEES			860 " "		

CANNANORE DIVISION OFFICE
7th December 1877

W. D. Liddell Brig. Genl. Commanding Malabar & Canara

A. T. Dobson Lieut. R.E.
Executive Officer D. P. W.

Wt. B. Kemp Lt. Coll. Dt. Engr. Malabar

Central Office
No. 588
22-2-78

1688

Estimate of the probable expense of Sinking a well 9 feet in diam in the 25th N.I. Regimental lines – Cannanore.

Amount of estimate Rupees 860

Specification to accompany Estimate for Sinking a new Well in the 25th N.I lines at Cannanore.

15/12

Amount of Estimate Rupees 860

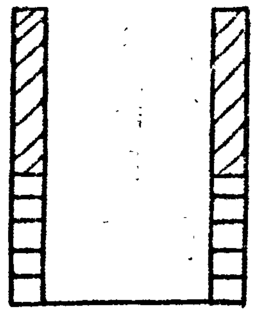
1003/4

Reasons for work — (1) The reasons for the necessity of the work are fully explained in the Officer Commanding 25th Regt. letter No 176. which is attached.

Excavation. — (2) The well is to be 9 feet in diameter, it is to be sunk as directed and to be taken sufficiently deep to get a good supply of water. From the appearance of other wells and water now in them, 70 feet is allowed, of course it may not be necessary to take the well so deep, but this depth is allowed so as to avoid a revised estimate.

Steening — (3) The steening to be of good sound hard laterite, and is to be laid dry except the upper 5' which are to be laid in cement to keep the surface water out. In the estimate 2 sizes are allowed 9" and 18" half of each. this is to be able to double the steening if necessary Supposing bad material is met with which is generally the case. If the soil is sound all through 9" steening alone will be allowed. It is to be laid dry in the most careful & approved manner and, as laterite can be cut so as to fit exactly the steining to be laid exactly circular which can be done by dropping a plumb-bob from the exact centre of the well and having rod of the exact proper radius - every course must be laid truly upright with a plumb-bob. - The steining mentioned above to be laid dry, is to be laid between courses set in cement which cement rings are to be three courses thick - these cement rings are to occur as close as may be necessary for the stability of the work, but should never be more than 5 feet apart from the centre ring of one to the centre ring of the next.

(3a) The excavation will be sunk in the usual way until it reaches some twenty feet i.e. the earth will be excavated & the steining built up from the bottom of the well taking care that the earth is properly backed in behind the masonry - After this depth the way the excavation & steining is to be carried out is this. - The earth to be excavated in the centre of the well at first leaving a berm all round of about one foot. Sink two feet then, carefully level the bottom and proceed then to carefully cut away the berm - having done this proceed to lay the laterite bricks from the bottom by undercutting the earth as shown in the sketch until the masonry joins that already executed & so on - in this way no curb is required but the brickwork is kept in place by the friction of the earth which is enormous, as the work is carried up the earth should be made good behind the stone by filling in.



1003

The cement rings used will act as a curb as it were from the portion of dry masonry work immediately above them.

The masonry executed should be shored up by struts and planks placed against it until the new masonry is put in - this way not absolutely necessary but it is well to do it to give the work people confidence

Parapet & Paving

There is to be a parapet 3ft. high round the well - the well also to be paved on the outside 5 feet with a drain to carry off waste water. This portion of paving will be laid in laterite in Chunam - the whole carefully pointed with Portland cement. -

Clearing rubbish.

All rubbish to be cleared away on completion. -

Cannanore
7th Decr/77

A. E. Dobson Lt. R.E.
Asstt. Engineer Mal

W. H. [illegible] Lt. Col.
Ex. Engr. [illegible]

[illegible] General 2221 of 1877-78.

ESTIMATE OF THE PROBABLE EXPENSE OF Deepening a well in the 25th Regimental lines at Cannanore

Rs 305

Talug	Name of Work	Number	Measurement. Length.	Measurement. Breadth.	Measurement. Depth.	Superficial Content.	Cubical Content.	PARTICULARS.	RATE	Amount of Each. Article.	Amount of Each. Work.	By whom Executed.	REMARKS
Chirakal			13 or about				5½	Coles of digging or deepening a well,	4 " " Cole.	22 " "		by [illegible] Genl. No 1994 of 5th December 77.	1007
			1×12.5×3.14	16×1.5×13			643	Steining at bottom					
							175	Filling the triangular portion					
							818	or say 820 Cft of Masonry	18 " " 100 cft	147 9 7			
								Clearing rubbish		60 " "			
								Baling water		50 " "			
								Total		279 9 7			
								Sundries and Superintendence about	10 per Cent	25 6 5			
								Total Rs.			305 " "		

Wm. B. Kennedy Lt Col.
Dt. Engr. [illegible]

[illegible] Brig. Genl.
Commanding Malabar & Canara

STATION Cannanore
DATE 7th December 1877

Central Office
Regd. No. 47
22-2-78

A. S. Doom Lieut. R.E.
Range Officer D. P. W.

15/12

1

Specification to accompany Estimate. for deepening a well in the 25th Regt: Lines, Cannanore.

Amount of Estimate Rs 305-0-7.
100/B

The well to be excavated to a depth of 13 feet and to be 9 feet in diameter. The present well is 14/4 ft in diameter, which is unnecessarily large. the diameter will therefore be reduced to 9' for the deepened part and the masonry will be filled in this way to make the joint good .

The excavation & steening are to be carried out in precisely the same manner as laid down in the specification of a New Well accompanying the Estimate.

Cannanore D. Office
7th Decr: 1877

A. C. Dobson Lt: R.E.
Asstt: Engineer
Malr:

W. H. Keen Lt Coll
Dt. Engr Malabar

Estimate of the probable expend
of deepening a well in the 25th
Regimental Lines at Cannano

Amount of estimate Rs 305

No. 246

Malabar District.

List of Estimates forwarded to the Deputy Qr. Mr. General of the Army **for** the approval ~~and return~~ of His Excellency the Commander in Chief.-

onth and date of stimate.	Range	Names of work.	Amount of Estimate.	Remarks.
7.	Cannanore	Sinking a well 9 feet in diameter in the 25th Regt. N. I. lines	860 " "	Recommended by the Dy. Asst. Qr. Mr. Genl. Malabar & Canara
		For deepening a well in the 25th line	300 " "	

1003

Malabar Dt. Engr's Office.
Calicut 8 January
1878.

Wm. B. Keene Lt.-Col.
District Engineer, Malabar.

16-1-78. [illegible] 697/1878.
Thro' O.C. Malabar & Canara

Qr. Mr. General's Office
Fort St. George 11th Jany 1878.

No. 232

Requests that the letter from the Officer Commanding 25th Regiment N.I. No. 176 said to be attached to the Correspondence in the specification shewing the necessity for the work may be forwarded to this Office for submission to His Excellency the Commander in Chief.

The returned.

(By order)

[illegible]
Major
Offg Depy Qr Mr General

To
The District Engineer
Malabar

Forwards
List of Estimates for sinking and deepening wells in the Lines of the 25 Regt N. I. at Cannanore

[illegible]
No. 355

1118

Q-1 B4 R-6

1003/69

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

15th February 1878, No. 808.

Cantonments—Water-supply.

Read the following paper:—

No. 222. *From Brigadier-General H. O'CONNELL, Quartermaster-General, to Colonel J. MICHAEL, C.S.I., Secretary to Government, Military Department; dated Head Quarters, Bolarum, 25th January 1878, No. 37-674.*

The Commander-in-Chief having approved the estimates marginally noted, I am directed by His Excellency to submit them, with their accompaniments, for the consideration and orders of Government.

2. If approved by Government, it is requested that the papers may be forwarded to the Department of Public Works for disposal.

Enclosures 8.

I.—Approximate estimate for sinking a well in the lines of the 25th Regiment, Native Infantry, at Cannanore, with abstract and specification—Rupees 860.

II.—Estimate for deepening a well in the same lines with abstract and specification—Rupees 305.

III.—List of above estimates.

IV.—Letter, No. 176, dated 4th December 1877, from Officer Commanding 25th Regiment, Native Infantry.

2. The want of water in the lines of the 25th Regiment, Native Infantry, at Cannanore, was brought to the notice of His Excellency the Commander-in-Chief when he visited that station. It is a matter of importance that this want should be remedied.

No. 223. ORDER THEREON, 15th February 1878, No. 808.

Approved generally, and transferred to the Public Works Department for consideration and final disposal.

(True Extract.)

J. Michael. Colonel,
Secretary to Government.

To the Public Works Department, with eight enclosures & 10 spare copies.
„ Quartermaster-General.

Exd. T. O'Connor.

Govt of (1878) Madras.

MILITARY

To
The Public Works Department.
&c., &c., &c.

Dated February, 1878

Read,

Cons. 15th February 1878, No. 808.

8.

FEBRUARY.
Nos. 222-223.

Approving the estimates for sinking and deepening wells in the lines of the [illegible] at Cannanore.

Mily B & R Works

No. 1003 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 28th Feby 1878

Read the following :—

Pro: in the Military Dept. (H.C. No. 808 d/ 15th Feby 1878)

1003/10

The undermentioned estimates are sanctioned for immediate execution.

1. Sinking a well in the lines of the 25th Regiment Native Infantry at Cannanore Rs 860
2. Deepening a well in —— do —— do —— " 305

1165

No 109 B. }
No 110 B } of 1877/78

The District Engineer will report the amount that is likely to be spent during the current official year when the necessary appropriation of funds will be made.

Ent WL 25-2-78

D.E. Malabar 9 ✓ with 2 Estimates
Exr P.W. Accts 5 ✓
Military Dept. 15 ✓ 17

to E.A.S. RA Despd 5-3-78. ~~This sanction has~~

been registered as
mperial and number
d as shown above.

1003/11

C/o 0021

Govt. of {1878} Madras

PUBLIC WORKS.

To
the D. E. Malabar

2-3-78

Dated

Issued

Recd. Encl.

G. O. 27 Feby 1878, No. 1003 W.

Nos.

Wells in the lines of the 25th Regt N. Infy at Cannanore, Malabar Dt. Sanction for immediate execution the estimates for sinking and deepening

Entd in Regr.