

(1) Number of pages 24

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	178	(W)	Press Mis.
Dated	19	1	1877

Not to be folded or roughly handled

Read the following papers:—

No. 347. From Lieutenant-Colonel R. B. KENNEDY, District Engineer, Malabar, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Calicut, 20th December 1876, No. 180.

IN G.O., No. 2,127, dated 30th June 1869, an estimate for Rupees 3,470 was sanctioned for constructing a plunge-bath for the Royal Artillery at Cannanore, but during the execution of the work it was found that some of the items were not sufficiently provided for, while there was an estimated excess on others. The reason for such is fully explained by Lieutenant Dobson in the comparative statement accompanying, and under the circumstances therein mentioned I beg that Government will be pleased to sanction the excess expenditure of Rupees 656-3-1 incurred above the estimate.

No. 347-A. From the same Officer, dated Calicut, 20th December 1876, No. 181—through the Examiner of Public Works Accounts.

ADVERTING to this office letter, No. 180 of this date, requesting sanction to revised estimate of Rupees 4,126 for constructing plunge-bath for the Royal Artillery at Cannanore, I have the honor to request that you will be good enough to allot a sum of Rupees 608, being the expenditure incurred on the work in the current official year, particulars as per margin.

Expenditure up to 1875-76	RS. 3,518
" in 1876-77	608
Total	4,126

2. I have no surrenders to make to meet the present demand.

No. 347-B. From the Examiner of Public Works Accounts, dated 11th January 1877.

No. 348. ORDER THEREON, 19th January 1877, No. 178.

MILITARY WORKS, No. 6.

(a) *Heads of Service.*—Imperial.
Fund.—Ordinary.
Class.—Original Works
Main-head.—Military.
Sub-head.—Military Buildings.
Section.—Accommodation for European Artillery
Name of Work.—Constructing a Plunge-bath for the Royal Artillery at Cannanore.
Amount.—Rupees 4,126.
To be carried out by the Public Works Department.

THE revised estimate of Rupees 4,126 for constructing a plunge-bath for the Royal Artillery at Cannanore is sanctioned in lieu of that of Rupees 3,470 sanctioned in G.O., No. 2,127, dated 30th June 1869. Rupees 3,519 having been spent up to end of 1875-76 the amount required in the current official year is Rupees 608 which has been provided by transfer in G.O., No. 59, of 6th January 1877.

2. This sanction is registered as Imperial No. 121—W. of 1876-77.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the District Engineer, Malabar.
" Examiner of Public Works Accounts.
" Military Department.
Exd. S. T. Austin.
Spare Copies



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Statement ESTIMATE of the ~~probable~~ expense of digging well and constructing pillars to the Puzha Bank &c at Cannanore.

85

March 1885

Name of Work.	Number.	MEASUREMENT.			Superficial Contents.	Cubical Contents.	PARTICULARS OF WORK.	RATE.	AMOUNT OF EACH.		Explanation of the necessity of work.	By whom recommended.
		Length.	Breadth.	Depth.					Article.	Work.		
1x10.5x3.46x1/2x4 =					198		Gravel wall of the well					
1x10.5x3.46x1/2x6 =					148 1/2		Part of the gravel raised to the surface					
(1x10.5x3.46x1/2x4) x 1/2 =					202		Gravel raised to the surface					
2x8 1/2 x 3 x 2 1/2 =					124		Foundation for pillars					
2x5 1/4 x 1 1/8 x 8 1/2 =					24							
2x3 x 1 1/8 x 8 1/2 =					168		Pillars above					
1x18 x 1 1/4 x 1 1/2 =					40 1/2		Pillars walls					
1x3 x 3 x 3 1/4 =					7		Flux of the pillars					
3x3 x 3 x 3 =					81		Foundation for pillars					
4x2 1/4 x 2 1/4 x 7 =					106		Pillars above					
1x10 x 3 3/4 x 3 1/4 =					28		Steps in foundation					
1x10 x 3 x 4 1/4 =					127		" above					
1x27 x 2 1/4 x 2 1/4 =					46		Outlet drain bottom					
1x27 x 1 1/4 x 2 1/4 =					30		" " side					
1x8 3/4 x 2 1/4 x 1 =					20		Pillars in foundation					
1x8 x 1 1/2 x 2 =					24		" above					
					1480		Pls of lattice in channel					

These are approximate only. Exact rates and this is to merely show in detail the work to be done. The amount of work that has to be done will be given as the work is charged to the account.

Assistant Engineer, Malabar
J. J. J.

IN CHARGE OF CANNANORE DIVISION

CANNANORE DIVISION OFFICE,

4th Dec 1885
M. H. H. H.
Cannanore 13

1884

No. 2554

58

1884

1884

1884

8-10-1917

Personal Property Original

At Amundson

[illegible]

27 Oct 4
Station
Elm - 7
80 Oct 4
Avalon
for info

ASSISTANT ENGINEER, MALABAR

Ms. A. 9.2. v. 1. p. 100

Adrian Leitch No. 6
ASSISTANT ENGINEER, MALABAR.

*Melander B. Cooper's Office
December 27, 83*

P.W.D.

1877-76

No. 1114

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Comparative Statement showing the outlay incurred in the Construction of the Plung Bath Rept. at Cannanore

138
 876

Proper Estimate as presented												More than Estimate		Less than Estimate		Remarks
No	Particulars	Quantity	Rate	Spd	Quantity	Rate	Spd	Quantity	Rate	Spd	Quantity	Rate	Spd			
1	Lateral in Chamam	8806	28	mp	1662	17	8008	15	76	1239	71	3026	4231	These three items were included under one head. They were kept separately in accounts. The work has been very carefully measured separating the items. the quantity of masonry increased owing to bath being lengthened & side supports		
2	Archwork					610	35			21538		21538				
3	Open stone work					433	15	2	1/2	60	40	60	40			
4	Door bottom	2	24	inch	48	2	25	inch	50		2					
5	Steps				50					680	91	180	91			
6	Cornices	56	6	1/2	21	124	2	1/2	173	1	68		3	13		
7	Concrete					46	3	8	1/2	56	4	14	3	Not allowed in estimate but much necessary.		
8	Excavating foundation				40	89	1	2		11	9	5	28		14	3
9	Landfill				321	7	11			383	6	5	618	7	This includes spreading and levelling all the rubbish This includes plastering parapet of the well, Cistern, steps and pillars. Old rate much higher than I now find necessary Nothing was allowed in estimate. Common latelite will not hold water. I myself have seen the water seeping out through latelite stones in the monsoon and from my own experience with the bath when there was a small flaw in the latelite causing out let sluice which could not from its position & position to properly get out and plastered with Cement. the water escaped into the walls and I was obliged to put up a pipe instead and which has completely stopped the leak	
10	Plastering with Chamam	7400	3	Sp	222	8016	1	6	8	113	3	610	108	9		9
11	Plastering with Cement					1080	11			1187	10	1080	1187	10		
12	Roofing with rafters &c	1533	24	Sp	367	49				368	49		119	3	flangular tiles were used instead of common tiles by Distt Engr's order and wood also obtained cheaper than usual	
13	Trusses complete	3	40	inch	120											
14	Catch stone flooring	520	50	Sp	260	542	43	Sp	237	40	42		22	5	Steps were floored to prevent latelite from being destroyed by rain The well most expensive. Much extra work had to be done, which was not allowed in estimate. 2 x 2 pillars for pipes for running water from the well into bath. The parapet of the well had to be made to get proper slope for water and masonry steps also to get up to windlass. The well had to be sunk to about 50 feet to obtain proper supply and many springs were met with which were necessitated constant baling and the earth fell on very much which was also expensive. Constantly digging & out. Detailed statement attached	
15	Well and drain				300					918	8	5	618	8		
16	Sluice doors and pipes									215		215		Nothing was allowed in estimate for sluice doors or closing bath and the pipes were necessary to carry water from well to bath.		
17	Timber wrought 1/2 ft up 15 ft	14	57	7	45	126	cf	52	66			5	13			
Total						3470				4126	31	137	25	710	54	
Amount of excess															656-3-1	

Cannanore Distt. Office
 6th December 1876

at Malabar Distt. Engr's Office
 Calicut 27th December 1876

Asst. W. Versey
 Lieut. Colonel
 Distt. Engineer, Malabar.

A. Dobson
 Lieut. R. E.
 Assistant Engineer, Mal.

P.W.D.
250076
Nº 1950

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1593

(a) Heads of Service— *Imperial*
Fund. *Ordinary*
Class. *Original Works*
Main-head. *Military*
Sub-head. *Military Buildings*
Section. *Accommodation for European Artillery*
Name of Work. *Constructing a Plunge bath for the Royal Artillery at Brompton*

Amount. *Rs 1127*

To be carried out by the *P.W.* Department.

in the margin of P.W. No 178 of 19-1-77-

RECEIVED
23M076

No. 150

No. 150

Malabar Distt. Engin Office
Calicut 20 December 1876.

From
The District Engineer
Malabar

To
The Secretary to Government
P. W. D.
Madras

Sir,
In G. O. No. 2127 dated 30

June 1869, an estimate for Rs. 3470 was
sanctioned for constructing a Plunge
Bath for the Royal Artillery at Cannan-
more, but during the execution of the work
it was found that some of the items
were not sufficiently provided for, while
others were in excess. The reason for such is fully explained by
Lt. Dobson in the comparative statement
accompanying, and under the circumstances
therein mentioned I beg that Government
will be pleased to sanction the excess ex-
penditure of Rs. 656-3-1 incurred above the
estimate.

I have the honor to be
Sir,
your most obdt. servant
W. H. Kew & Co. Esq.
Distt. Engineer, Malabar.

Nº 1000

The Secretary to Court.
B. H. Harris.

Patet 20th Febr. 1766

$\frac{1}{2}$ 180

Dictas. 3.

Request's sanction for Ropes
656-3-1 being the receipt
of said line insured on
the construction of the
Rope. & after the Ropes
Order of the Insurance

N^o 181

From

The District Magazine
Malabar

70

The Secretary to Government
P. W. D.

Madras,

Thrs the Examiner, P. W. Account

Adverting to this Office letter
No. 180 of this date requesting sanction to
revised estimate of Rs. 4126 for constructing
Plunger Bath for the Royal Artillery at
Cannanore, I have the honor to request
that you will be good enough to allot
a sum of Rs. 608 being the expenditure
incurred on the work in the current official
year, particulars as per margin.

2. I have no surrenders to make to meet the present demand.

I have the honor to be

Sir,

Sir,
Your most obt. Servant
J. H. H.

1
 Pitt. H. Kennedy Lt. Col.
 Malabar.

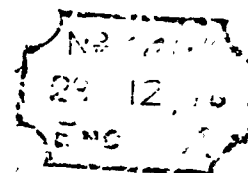
Dieter Huginer, Gualabar

Reproduction of 1876-76. P. 55/18.
 " " 1876-77. P. 55/18.
 " " 1876-77. P. 55/18.

N-367.

Cen 15-7-77 21/11/77

Chs 8463 of 1876 with 201523
 1162820 of 1877 with 27.06.1876
 2030-6-69 No 2127.
 " 6-1-77 - 59 (in the Rev.)



P.W.D.
 12 JAN 77
 No 281

Report to audit a sum of
 Rs 100 being the expenditure
 incurred on the work of
 constructing a bridge with
 the Royal Military
 authorities

To the District Engineer,
 Malabar.
 To the Secretary to Govt.
 P.W.D. Madras.
 To the District Engineer,
 P.W.D. Malabar.
 To the District Engineer,
 P.W.D. Malabar.
 To the District Engineer,
 P.W.D. Malabar.

A TRANSFER OF FUNDS FROM THE DECREASE OF STOCK BALANCES TO
 MEET THE EXPENDITURE ON THIS WORK WAS SUGGESTED TO GOVT. IN THIS
 OFFICE LETTER NO. 347 OF 20TH. DEC. 1876.

2. THE AMOUNT ENTERED IN THE STATEMENT WHICH ACCOMPANIED THAT
 LETTER WAS RS. 583. THE AMOUNT NOW APPLIED FOR BY THE DISTRICT EN-
 GINEER, MALABAR, IS RS. 606. THE FULL AMOUNT COULD BE APPROPRIATED
 FROM REDUCTION IN THE STOCK BALANCE. THE AMOUNT WAS ENTERED BY
 THIS OFFICE AT RS. 583 AS THE DISTRICT ENGINEER, MALABAR, IN HIS RE-
 PLY TO THE AUDIT NOTE STATED THAT THE WORK HAD BEEN COMMENCED.

Lowry Gordon

11TH. JANUARY 1877.

EXAMINER, P.W. ACCOUNTS.

No 347 A-347 B.

28

No 170 Public Works Department

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 19 Jan 77
 Read the following:-

From the Dt Engr. Malabar (H.E. No 180 of 20 Dec 76)
 " do do (H.E. No 181 of 20 Dec 76)

W. 17/1

The revised estimate
 of Rs. 4127 for con-
 structing a Bridge
 Bath for the Royal
 Artillery at Hannanore
 is sanctioned in lieu
 of that of Rs 3470
 sanctioned in L.O.
 No 2127 dated 30 June
 1869 - Rs 3519 having
 been spent up to
 end of 1875-76 the
 amount required in
 the

the current official
year is Ro 608 which
has been provided
by transfer in Rb
No 6⁵⁹ of 6 Jan'y 1877.

This sanction is
registered as Imperial
No 1217 of 1877
12-1-77

D. E. Malabar ✓
" Don't the Arab ✓
" Ex. P. D. Aech ✓
" Only: Depart ✓
Disp. 27-1-77

Ar 15-1-77 R 19-1-77

781. 9344
Govt. of 1877 Madras.

PUBLIC WORKS.

To

The N. B. Cheloo

Dated

Issued

Recd.

Encl.

G. O., 19th Jan. 1877, No. 178

Nos. 347 C 348.

Pumps for the Puzh
Arillayal Cannanore
Malabar Dist.

Revised Estimate of
Rs 4127 for constructing
a — — — — —

Done by P. P.