

(1) Number of pages 28

(2) Date of report

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 1076	(N)	Press Mr.
Dated 29	3	1877.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
29th March 1877. No. 1,076.

No. 742. Read the following Proceedings of the Madras Government in the
Military Department, dated 16th March 1877, No. 1,577 :—

Read the following letter from Brigadier-General H. O'CONNELL, Quartermaster-
General, to Colonel J. MICHAEL, c.s.i., Secretary to Government,
Military Department, dated Fort St. George, 23rd January 1877, No. 535.

Enclosures 4.

1 Estimate amounting to Rupees 840 for en-
larging and deepening the well between the
Solitary Cells of 23rd Regiment N.I., East
Hutting Lines at Bangalore.

1 Estimate amounting to Rupees 790 for en-
larging and deepening the well near the Girls'
School opposite the Musjid, 23rd Regiment
N.I., East Hutting Lines, Bangalore.

These works have been commenced in antici-
pation of sanction, owing to the scarcity of
water.

THE Commander-in-Chief having
approved the plans and estimates margin-
ally noted, I am directed by His Excel-
lency to submit them for the consideration
and orders of Government.

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

Approved.
(True Extract.)

(Signed) J. MICHAEL, Colonel,
Secretary to Government.

No. 743. ORDER THEREON, 29th March 1877, No. 1,076.

MILITARY WORKS, No. 19.

(a) Heads of Service.—Imperial.
Fund.—Ordinary.
Class.—Original Works.
Main Head.—Military.
Sub-Head.—Military Buildings.
Section.—Accommodation for Native Infantry.
Name of Work.—Deepening the well
between the Solitary Cells of 23rd
Regiment N.I. East Hutting
Lines at Bangalore Rs.
Deepening the well near the Girls'
School opposite the Musjid do. do. 790, No. 158-W.
1,630

THE estimates aggregating Rupees
1,630 for deepening wells in the 23rd
Native Infantry East Hutting Lines at
Bangalore are sanctioned.

2. Funds will be provided for the
works as follows :—

	Rs.
Reserve at the disposal of Gov. ernment	78
Repairs at disposal of Chief Engineer	*1,552
Total	1,630

Amount.—Rupees 1,630.
To be carried out by the Public Works Department.

* Subject to the confirmation of the Government of India.

3. This sanction has been registered
as Imperial Nos. 157 and 158—W of
1876-77.

(True Extract.)

Colonel,
Acting Joint Secy. to Govt., P.W.D.,
Buildings and Roads Branch.

To the District Engineer, Bangalore.
" Examiner of Public Works Accounts.
" Military Department.
Exd. T. D. Ryan.
Spare Copies

Demanded Description of work Rate Per Amount Total
City

452.36 left of Excavation 12' by 12' 0. 62. 15 577
3465 left of lining the well
with stone and jelly } 0. 2. 433. 2 2
148 1/2 left of stone in chunam } 3. 27 136
2. 47 1/4 Sps of Pointing with chunam for parapets 1 40 Sps 3 15
3. 3924 Sps of stone paving around
the wall } 12 8. 42 65
45 3/8 left small square or
V Drain around the } 40 1/2 18 136
paving -
4 Stone posts 9' x 1 1/2' x 6') 2 00 8 00
2 Cross frames 13' x 6' x 9'
over stone posts with two
pullups & fittings complete } 7 1/6 48
 sundries & Bailing water 73 11 4
Total Estimate Rupees 790

G. A 29: 1/77 10 1/2 1/2

Liott Camp Office

Bangalore 16 Jan: 1897

Lt
H. S. B. S. B.

Major P. C.

Off. District Engineer

By order 17 JAN 77

Major
A. S. S. S.

Head of Service _____ Imperial
 Fund _____ Ordinary
 Class _____ Original Works
 Main Head _____ Military
 Sub head _____ Native Infantry

To be carried out by the D. P. W.
 Abstract Estimate No. of 1876-77

District _____ Bangalore

Name of work _____ Enlarging and deepening
 the well near the girls school opposite the
 Munsjed 23rd Regt; Native Infantry East
 Huttling Lines. Vide Estt & M^o Genl M^o
 No 610 D^y 27 Decr. 1876

Quant.	Description of work	Rate	Amount	Total
136.18	Left of excavation for 1 st 1/2 feet	0.01 cft	3 50	
636.18	Do 2 nd 6 feet	1/2	4 15 6	
636.18	Do do	2	6 10	
636.18	Do do	2 1/2	8 4 6	
636.18	Do do	3	9 15	
636.18	Do do	3 1/2	11 9 6	
636.18	Do do	4	13 4 0	
636.18	Do do	4 1/2	14 14 6	
636.18	Do do	5	16 9 1	
664.42	Do do	5 1/2	19 6	
678.54	Do do	6	21 33	
	to Q.			

Specification to accompany Plan and
 Estimate for Enlarging and deepening the
 well near the Girls School opposite the
 Munsjed 23rd Regiment Native In-
 fantry East Huttling Lines.

Amount of Estimate Rupees 790

The well to be sunk to a depth of
 70 feet having a clear inside diameter
 of 9 feet.

It is to be lined with loose
 stones 1 1/2 in thickness each course of
 stone pavement to be raised in a
 uniform level and well fitted with
 good bond.

A stone pavement 6 feet wide
 with a square or V Drain by its side
 to be laid down all round the well
 as shewn in plan.

A parapet wall of stone in chun-
 nam 18" thick and 3 feet high and
 pointed with chunam to be built
 on the stone lining all round
 the well.

All joints in the pavement

to be scraped out not less than 1" inch and pointed with chunam.

Upright stones $9 \times 1\frac{1}{2} \times 6$ to be fixed in the pavement 18 inches below the floor and $\frac{1}{2}$ feet above it as shown on the plan. A teakwood frame $10 \times 6 \times 9$ to be fixed in holes cut on the head of each of the upright stones and two 1" iron bolts with head and nuts to be fixed at both ends of the frame to prevent the same from moving. Two pulleys 6 in diameter with iron works complete to be securely fastened to each frame as shown in plan.

[Signature]

Major R. C.
Distt Engr's Office
Offg. Distt Engineer
Bangalore 16 Jan 1897
Lb
H. S. S. S.

Head of Service _____ Imperial
Fund _____ Ordinary
Class _____ Original Works
Main Head _____ Military
Sub Head _____ Native Infantry

To be carried out by the P.W.D.

Detail Estimate of 1896-97

District - Bangalore

Name of work _____ Enlarging and deepening the well near the Girls School opposite to the Masjid 23rd Regt. Native Infantry East Huttling Lines. Vide Asst. Commr. Genl. No 610 of 24 December 1896.

Particulars of work	Measure in feet	Contents	Total
Excavation			
Linking wells 18 ft dia	115.09 area		
Deduct the area of old well 6 ft dia	4.06 area		
Left of Excavation 12 ft dia	116.03	6	636.18
Do 2nd 6 ft			636.18
Do 3rd 6 ft			636.18
Do 4th 6 ft			636.18
Do 5th 6 ft			636.18
Do 6th 6 ft			636.18
Do 7th 6 ft			636.18

Particulars of work	Measure - ment	Contents	Total
	L P D		

Stone Lining

Stone in chunam

Printing

None paving

Particulars of work	Measure	Unit	Contents	Total
	sq			
	L	B	D	

20th 1877

No. 3007

J. M. 1880

Head. of Service _____ Imperial
 Fund _____ Ordinary
 Class _____ Original Work
 Main Head _____ Military
 Sub Head _____ Native Infantry

To be carried out by the P.W.D.

Detail. Estimate of 1876-77

District Bangalore

Name of work _____ Enlarging and deepening the
 well between the Solitary Cells of 23rd Regt. of I.
 East. Hunting Lines.

Vide Asstt. to Mr. Genl. M. D. 12610 D/27 Decr. 1876.

Particulars of work	Measure	Contents Total	
		sq. ment	Rs. P. D.

Excavation

Linking well 13ft dia 126 feet	1	113.09 area	
Deduct the area of old well 8ft dia	1	7.06 area	
Left of Excavation 126 feet		106.03	6 636.18
Do 2 nd 6 feet			636.18
Do 3 rd 6 feet			636.18
Do 4 th 6 feet			636.18
Do 5 th 6 feet			636.18
Do 6 th 6 feet			636.18
Do 7 th 6 feet			636.18
Do 8 th 6 feet			636.18
Do 9 th 6 feet			636.18
Do 10 th 6 feet			636.18
Do 11 th 6 feet	1	113.09	6 678.54

4.0 29: March/77 J.B. 742

Particulars of work	measure -ment	Contents	Total
Deduct area of old well 3ft dr 80 1/2 feet deep	1 7.06 . 3 1/2	2471	
Left of Excavation for 11- 6ft		653.83	
Do 12 6ft	113.09 . 6	678.54	678.54
Do 13 Do	113.09 . 3	339.27	339.27
Stone lining			
Well 9ft dr inside 8 1/3ft outside	1 33 1 1/2 75	3712 1/2	
Total left of stone lining			3712 1/2
Stone in chunam			
Parapet wall	1 33 1 1/2 3	148 1/2	
Total left of stone in chunam for parapet			148 1/2
Pointing			
Parapet wall outside	1 37 1/2 . 3	113	
Do inside	1 28 1/4 . 8	84 3/4	
Do top	1 38 . 1 1/2	49 1/2	
Total left of Pointing with chunam			247 1/4
Stone paving			
Around the well	1 56.54 . 6	339.24	
Total left of Stone paving around the well			339.24
Left of small square or drain around the stone paving	0 75 3 . 0	75 3	75 3
Stone posts	4 (9' 1 1/2 6")	4	4
cross frame 15 x 6 x 9 over stone posts with two pulleys and fittings complete	2 . . . 2	2	2

Sub
H. P. S. S. S. S. S.

Head of Service ——— Imperial
Fund ——— Ordinary
Class ——— Original work 4
Main Head ——— Military
Sub Head ——— Native Infantry

To be carried out by the P. W. D.

Abstract Estimate of 1876-77

District — Bangalore

Name of work — Enlarging and deepening the well
between the Solitary Wells of 23rd Regt. Native Infan-
try East Butting Lines.

Vide Asstt Gt Mtr Genl W. D. No. 6102 of 27 Decr. 1876.

Quantity	Description of work	Rate	Per Amount	Total
636. 18	Left of Excavation for 1st 6ft	0.10	3.50	
636. 18	Do 2nd 6ft	1 1/2	4.156	
636. 18	Do 3rd Do	2	6.10	
636. 18	Do 4th Do	2 1/2	8.46	
636. 18	Do 5th Do	3	9.15	
636. 18	Do 6th Do	3 1/2	11.96	
636. 18	Do 7th Do	4	13.4	
636. 18	Do 8th Do	4 1/2	14.146	
636. 18	Do 9th Do	5	16.91	
636. 18	Do 10th Do	5 1/2	18.37	
636. 18	Do 11th Do	6	20.611	
636. 18	Do 12th Do	6 1/2	22.156	
653.83	Do			
678.54	Do			

Quantity	Description of work	Rate	Est. Amount	Total
			2000 577	
			300	
339.27	left of Excavation 13' 6ft	7	12 5 10	
3712 1/2	left of Lining the well with stone and jelly	0.2	464 1 0	
148 1/2	left of stone in chunam for parapets	0.3	27 18 6	
2.47 1/4	left of Pointing with chunam	1.4	3 1 5	
3.3924	left of Stone paving around the well	12.8	42 6 5	
76 3/8	left of small square or V Drain around the paving	0.4	18 13 6	
4	Stone posts (9 x 1 1/2 x 6")	2	8	
2	cross frames 13 x 6 x 9 over stone posts with two pulleys and fittings complete	19	38 0 0	
			765 10 9	
	Sundries and hauling water		74 5 3	
	Total Estimate Rupees		840	

District Engineer's Office
Bangalore 16th Jan. 1877

Leib

H. D. S. S. S.

G. O. 29th March 1877 B. K. 742

Major P. C.
Offg. District Engineer

By order
Major
a. S. S. S.

17 JAN 77

Specification to accompany Plan
and Estimate for Enlarging and deep-
ening the well between the Solitary
cells of 2nd Regt. Native Infantry
East Stationing Lines Bangalore.

Amount of Estimate Rs 840

The well to be sunk to a depth
of 75 feet having a clear inside dia-
meter of 9 feet.

It is to be lined with loose
stones 1 1/2 in. thickness, each course
of stone pavement to be raised in
a uniform level and well fitted
with good hand.

A stone pavement 6 feet wide
with a square or V. Drain by its
side to be laid down all round
the well as shown in the plan.

A parapet wall of stone in
chunam 18" thick and 3 feet high
and pointed with chunam to be
built on the stone lining all
round the well.

All joints in the pavement

to be scraped out not less than 1 inch and pointed with chain.

Upright stones $9 \times 1 \frac{1}{2} \times 6$ to be fixed in the pavement 18 inches below the floor and $7 \frac{1}{2}$ feet above it as shown on the plan.

A teakwood frame $10 \times 6 \times 9$ to be fixed in holes cut on the head of each of the upright stones and two 1" iron bolts with head and nuts to be fixed at both ends of the frame to prevent the same from moving. Two pulleys 6 in diameter with iron works complete to be securely fastened to each frame as shown in plan.


Major R.C.

Offg. District Engineer

Distt. Engrs. office

Bangalore 16-Jan-1877


H.D. Driftman

Proceedings of the Madras Government, Military Department,
16th March 1877.

12

Cantonments—Water Supply.

Read the following letter:—

No. 272. From Brigadier-General H. O'CONNELL, Quartermaster-General, to Colonel J. MICHAEL, c.s.i., Secretary to Government, Military Department; dated Fort St. George, 23rd January 1877, No. 535.

Enclosures 4.

- 1 Estimate amounting to Rupees 840, for enlarging and deepening the well between the Solitary Cells of 23rd Regiment, N. I., East Hutting Lines at Bangalore.
 - 1 Estimate amounting to Rupees 790, for enlarging and deepening the well near the Girls' School opposite the Musjid, 23rd Regiment, N. I., East Hutting Lines, Bangalore.
- These works have been commenced in anticipation of sanction, owing to the scarcity of water.

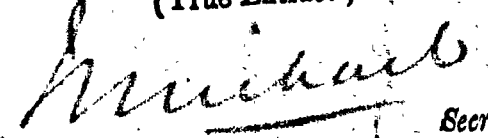
The Commander-in-Chief having approved the plans and estimates marginally noted, I am directed by His Excellency to submit them for the consideration and orders of Government.

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

No. 273. ORDER THEREON, 16th March 1877, No. 1577.

Approved.

(True Extract.)



Colonel,

Secretary to Government.

To the Public Works Department, with seven enclosures. and to the Quartermaster-General.

Exd. A. Raitt.

RECORDED

Print in the margin of 4. No. 1076 of 29-3-77.

N^o 1076

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 29 March 1877

Read the following:—

Pro: in the Military Dept. (No. 1577 of 16th March 1877)

The estimates aggregating Rs 1630 for deepening wells in the 23rd Native Infantry East Kenting Lines at Bangalore are sanctioned.

2. Funds will be provided for the works as follows

* subject to the confirmation of the Govt. of India

Reserve at the disposal of Government - Rs 78

At Bangalore. Resd
to P. W. Dept. 19-4-77
Mily. Dept.

Repairs at disposal of Chief Engineer. Rs 1552

This sanction has been registered as Imperial No 157 & 158 of 21/3/77
A.P. Decd - 31-3-77

3007

Govt. of Madras.
PUBLIC WORKS.

To
The D. B. Bangalore

4/4/77

Date

Issued

Recd

Encl.

G. O. 29/3 1877 No. 1076

Nos. 742-743

Wells in the 23rd Native In-
fantry East Kuttung Lines
at Bangalore - The estimate
aggregating Rs 1630 for deepening
—, sanctioned.

But no Reg.

Ly. Q 29 in March 1877 No. 1076

C. 22-3-77