

(1) Number of pages. _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	1380 (W.)	Press Mis.
Dated	23-4-	1877.

Not to be folded or roughly handled

10

*Proceedings of the Madras Government, Public Works Department,
23rd April 1877. No. 1,380.*

No. 526. Read the following letter from W. B. LEGGATT, Esq., A.I.C.E.,
Officiating District Engineer, Bellary, to the Chief Engineer, Public Works
Department, Buildings and Roads Branch, dated Bellary, 12th March 1877,
No. 5,186 :—

I HAVE the honor to submit, for the sanction of Government, a revised estimate of
Rupees 2,413, accompanied by a compara-
One Revised Estimate. tive statement, in connection with the
„ Comparative Statement. work “providing apparatus for filling the
plunge-bath in the Royal Artillery lines at Bellary.”

2. The amount of the estimate originally sanctioned for the work was Rs. 1,938,
vide G.O., No. 1,830, dated 1st July 1875, the revised estimate exceeds that sum by
Rupees 475, an increase of 25 per cent. on the original sanction.

3. The excess occurs chiefly on the following items, and the cause is explained
in the comparative statement :—

1. Joining the pipes.
2. Stone in chunam.
3. Stone in clay.

4. An outlay of Rupees 1,937 was incurred on the work up to the end of
March 1876. The work has been since completed, but the accounts have not yet been
finally closed.

No. 527. ORDER THEREON, 23rd April 1877, No. 1,380.

MILITARY WORKS, No. 11.

Heads of Service.—Imperial.
Fund.—Ordinary.
Class.—Original Works.
Main-head.—Military.
Sub-head.—Military Buildings.
Section.—Accommodation for European Artillery.
Work.—Providing apparatus for filling in the plunge-bath
of the Royal Artillery at Bellary.
Amount.—Rupees 2,413.
To be carried out by the Public Works Department.

UNDER the explanation given by the
District Engineer the revised estimate of
Rupees 2,413 for providing apparatus,
&c., to fill the Royal Artillery plunge-
bath at Bellary is sanctioned in lieu of
that sanctioned in G.O., No. 1,830, dated
1st July 1875. The District Engineer's
attention is called to paragraph 23,
Chapter IX of the Madras Public Works Code, which he has neglected to attend to.
The amount required to close the accounts, viz., Rupees 476, was appropriated in G.O.,
No. 749, of 5th March 1877.

2. This sanction is registered as Imperial No. 5—W of 1877-78.

(True Extract.)

Colonel, R.E.,

Secretary to Government, P.W.D.

To the District Engineer, Bellary.

- „ Examiner of Public Works Accounts.
- „ Military Department.

Exd. S. T. Austin.

Spare Copies

1500 - 1500

Original Estimate San
by Government.

Description of work.

Quantity	Rate	Per	Amount	Total	Quantity	Rate
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Head of Service - Imperial

3D.

Fund - Ordinary

Class - Original Works

Main head - Military

Sub-head - Military Buildings

Section - Accommodation for European Artillery

Work - Providing apparatus for filling in &
plunge baths of the Royal Artillery at
Bellary.

Amount Rs. 243-

to be carried out by the P. W. Dept.

Print in the margin of G. O. No. 138 of 23-4-77-

Particulars for letting off
to water. Consists of 6 1/2
cords. Copper plug 1000 feet.

1500 - 1500

Original Estimate San
by ~~Governor~~

No	Description of work	Quantity	Rate	Per	Amount	Total	Quantity	Rate
		3	4	5	6	7	8	9
21	Joining pipes with lead & white lead						67	1.32
22	Cleaning the well							34.
23	Cistern lid with frame, hinges, lock & key $2\frac{1}{2} \times 2\frac{1}{2}$						1	7.
24	Perforated iron Cover for head of Pipe						1	1.

25 Sundries

186.

134

1938.

Apparatus for letting off
water. Consisting of 1500 - 1500

Original Estimate sanctioned
by Governor

Difference
between
Columns
7 & 12

N.W.D.
164377
2773

No	Description of work	Original Estimate					Difference				
		Quantity	Rate	Per	Amount	Total	Quantity	Rate	Per	Amount	Total
21	Joining pipes with lead & white lead						67	1.32	122.00	532.00	96.00
22	Cleaning the well						3	4.00	4.00	4.00	
23	Cistern lid with frame, hinges, lock & key 2 1/2 x 2 1/2						1	7.00	7.00	7.00	
24	Perforated iron Cover for head of Pipe						1	1.00	1.00	1.00	
25	Sundries										
					180.00					237.00	
					134.00					40.00	
					193.00					277.00	
										466.00	
										190.00	
										476.00	

SD

This item was not foreseen at the time of framing the estimate as it was thought flange pipes would be supplied instead of Socket pipes requiring lead &c.
Carried out at the request of the military authorities
Provided to secure the pipe from choking by misadventure or accident
Found necessary to intercept weeds & rubbish from the well.

Not required

Not excess

40 23rd April 77 J.B. 526

Apparatus for letting off
fast water Consists of 610 150

Comparative Statement showing the difference between the Original Estimate sanctioned by Government and the Revised Estimate now submitted for sanction for providing Apparatus &c. for filling the Plunge bath of Royal Artillery together with the reasons for excesses or savings from the original estimate

Sl. No.	Description of work	Original Estimate sanctioned by Government				Revised Estimate				Difference between them + or -	
		Quantity	Rate	Per	Amount	Quantity	Rate	Per	Amount	Excess over original estimate	Savings from original estimate
1	Stone in Churnam	1103.06	26 Cft	172	190.72	1572	26 Cft	207	415.32	224.60	
2	Earth for Bullock run with wet tamping	258.72	4 Cft	65	168.16	2333	4 Cft	58	135.32	33.84	
3	Excavation with dry tamping	25.59	26 Cft	4	1.02	207	26 Cft	5	1.03	.01	
4	Plastering 2 Coats	1.53	44 Cft	7	10.71	2.55	44 Cft	11	27.99	17.28	
5	Painting	2.32	10 Cft	14	32.48	20.80	10 Cft	34	208.00	175.52	
6	Slabs 1 1/2 x 3/8	73	26 Cft	21	1533						
7	Slabs for Uprights under Pacallah with holes	2	28 Cft	5	140						
8	Jungle wood brought & put up complete	4.83	3 Cft	14	67.62	7.89	3 Cft	24	190.32	122.70	
9	Wooden wheel large complete	1	38 Cft	4	152	1	38 Cft	3	114	38	
10	Do small do with iron straps at end	3	2 Cft	6	18	2	2 Cft	4	8	10	
11	Cast iron pipes 6 in diameter with 4 junction pieces	410			410	406			1640	1230	
12	Making hole for pipe in the front wall & sinking pipe in Pials inside Plunge bath	1	2 Cft	2	4	1	2 Cft	2	4		
13	Stone in Clay (Churnam)	1755	19 Cft	202	355.50	1755	19 Cft	202	355.50		
14	Excavating foundation	63.25	2 Cft	8	506						
15	Slabs 2 x 3/8	23	56 Cft	8	1344						
16	Do 2 1/2 x 3/8	16	7 Cft	7	112						
17	Brick in Churnam	63.31	38 Cft	15	949.65						
18	Coping with Churnam	165	26 Cft	24	3990						
19	Apparatus for letting off waste water consisting of 6 ft iron pad, Copper Plug, hold fast & key	1	15 Cft	15	15						
20	Stopping leaks in pipes with white lead & cloth	5	1 Cft	5	5						

The excess was caused as 13 Piers had to be built in place of 2, provided for in the original estimate. The increased number of piers being necessitated by the short length of the pipes supplied viz 6 ft. each joint required support.

The bullock run was made shorter and steeper than estimated for resulting in the slight saving shown.

The excavation had to be made slightly deeper in parts to lay the pipes level.

Plastering for item 17.

Painting for wing walls vide items 13 & 13A.

The slabs in item 16 were substituted for these.

Old slabs were found available.

A short thick piece of timber was placed across the rear of the hoisting apparatus to strengthen it.

Two wheels were found sufficient.

The quantity required & the carriage were slightly over estimated.

Excess caused by the addition of wing walls to Bullock run.

8 feet used for opening in wing walls items 13 & 15 ft to support brick parapet item 17.

Substituted for item 6.

Parapet found necessary to protect anyone cleaning or unloading the cistern.

Coping to wing walls items 13 & 13A.

An improvement on the former simple hole in the bath to allow a regulated quantity of water being discharged.

Excess due to flaws in the pipes.

Work. Provided for Plunge bath

24/11/13

for as impended

Sl. No.	Description of work	Quantity	Rate	Amount
63.25	Cft Excavating			
184.55	Cft Stone			
1755	Cft Stone in Churnam			
1579.12	Cft Stone in Churnam			
233.33	Cft Raising Sills with earth web			
33.37	Do Excavating & refilling			
255.5	Sqft Plastering			
2080.50	Sqft Painting			
23	Cft Slabs 2 1/2 x 3/8			
16	Do Do 2 1/2 x 3/8			
7.839	Cft Jungle wood for bullock run			
63.31	Do Bricks w/c			
15.5	Cft Coping			
1	Wroden wheel			
2	Do Small			
1	Blacking hole in areole laying for the bath			
	Clearing the u			
406	Cft Cast iron pipe for wheeling C			
1	Apparatus for waste water consisting of iron pad, Copper plug, hold fast & key			

Estimated
Sum of Rs. 1000
Difference
between
Columns
7 & 12.

10	11	12	13	14
2373	1240	532	96	
122		122		
4		4		
7		7		
1		1		
2373	2374			
40		94		
24400	666	199		
195				
476				

This item was not foreseen at 2
as it was thought flange pipes would
pipes remaining lead &c.
Carried out at the request of the
Provided to secure the pipe for
or accident.
Found necessary to intercept
the well.

Not required

Not excess.

40 23rd April/77 IO Rs. 526

Abstract Estimate
Beggary District
Work. Providing Apparatus &c. to fill the Royal Artillery
Barracks

Description of work	Rate	Amount	Sum of each part.
63.5 Cft Excavating foundation	20 Cft	2000	
184.5 Cft New stone masonry	1.9 Cft	20200	
1755 Cft Old stone masonry	1.2 Cft	12000	
1579.42 Cft Stone in Chumans	2.6 Cft	24670	
233.33 Cft Raising Bullock run with water web tanks	40 Cft	5800	
60.57 do Excavating earth and refilling	26 do	5000	
255.5 Sft Plastering 2 Concs	4.40 Sft	11000	
200.50 Sft Plastering	1.10 Sft	3400	
23 Cft Slabs 2x3/2	2.56 Cft	8000	
1 do do 2 1/2 x 3/2	70 do	7000	
7.839 Cft Simple masonry work for bullock run	300 Cft	24000	
63.31 do Brick masonry	38 do	15000	
15.51 Cft Coping with Chumans	2.6 Cft	24000	
1 do wooden wheel large	300 each	3000	
2 do Small	200 do	4000	
1 Blaking hole in the wall and laying pipe inside the bath	200 do	2000	
1 Clearing the well		4000	
406 Cft Cast iron pipe 4" diameter two wheeled Cartage		14400	
1 Apparatus for letting off waste water. Consisting of iron rods. Copper plug & lock & key	1500	1500	

Sum of Rs.

63.5

184.5

1755

1579.42

233.33

60.57

255.5

200.50

23

1

7.839

63.31

15.51

1

10

11

12

13

14

15

16

17

18

19

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21

22

23

24

25

26

27

Summary

Description of work	Rate	Amount	Amount of each part
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5 Stopping leaks in pipes with white lead and cloth.	1 00	@	5 00
67 Joining pipes with lead and white lead.	1 13 20	@	122 00
1 Cistern lids with frame hinges lock and key 2 1/2 x 2 1/2	2 00	@	2 00
1 Perforated iron cover for head of pipe.	1 00	@	1 00

Summed 2374 00
40 00

Deduct Original Estimate already submitted 2414 00
1938 00

Net Amount requiring sanction 476 00

Bellary Range Office
15th January 1877

Assistant Engineer
Bellary Range
Muzaffar

P.W.D.
16 MAR 77
NO. 2773
2

Recd

Abstract Estimate
amounting to
Rs 2414 for providing
apparatus re
to fix the Royal
Artillery House
Bath.

from
The Officer in charge
Military House
to The District Engineer
Bellary
Dated 15th May 1877.
Recd

Roads & Buildings No. 5186. District Engineer's Office
Bellary
12 March 1877
From
The Offg District Engineer
Bellary
To
The Chief Engineer
for Buildings and Roads.

Enclosures 2
Revised Estimate
Comparative
Statement

Sir
I have the honor to submit
for the sanction of Government, a
revised Estimate of Rs 2413, ac-
companied by a Comparative state-
ment in connection with the work
"Providing apparatus for filling
the Plunge Bath in the Royal
Artillery lines at Bellary."
2. The amount of the Estimate
originally sanctioned for the work
was Rupees 1938, vide G. O. No.
1830 dated 1st July 1875; the revised

G.O. 23rd April 77 S.D. 526

Estimate exceeds that sum by Rupees
475 - an increase of 25 per cent on
the original sanction.

3. The excess occurs chiefly on the
following items, and the cause is ex-
plained in the Comparative State-
ment.

1. Joining the pipes.

2. Stone in chumam.

3. Stone in clay.

An outlay of Rupees 1937 was
incurred on the work up to the end
of March 1876. The work has been
since completed but the accounts
have not yet been finally closed.

I have the honour to be

Sir

Your Most Obedient Servant

W. J. D. C. C.

Offg District Engineer

Bellary

1877

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guinea

No 2413

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Madras

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5th March 1877 No 749
 1st July 1875 - 1830
 26 April 1875 - 1161
 7 Feb 1877 - 392.

P.W.D.
 No 5186 of 12 March 1877
 No 2772

From

The Offg Dist Engineer
 Bellary

To
 The Chief Engineer
 for Roads & Buildings

No 5186

Dated 12 March 1877

Enclosures 2

Providing apparatus
 for filling the Plunge
 Bath in the R. A. lines
 at Bellary.

Submitting for sanction
 a revised Estimate of
 Rs 2413 for —

By O 23rd April 77 No 526

60747 R. 23-4-77

150
 No 1380 Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 23rd April 1877
 Read the following:—

From

The Dist. Eng. Bellary (No. 5186 of 12th March 1877)

Under the explanation

1/10

given by the District Engineer
 the revised estimate of Rs 2413
 for providing apparatus
 to fill the Royal Artillery
 Plunge Bath at Bellary
 is sanctioned in lieu of
 that sanctioned in G.O.
 No 1830 dated 1st July
 1875. The District Engineer's
 attention is called to para.
 15 Chapter IX of the Madras
 P. W. Code which he has

neglected to attend to. The
amount required to close
the accounts viz Rs 476
was appropriated in G.O.
No 749 of 5th March 1877

2. This sanction is
registered as Imperial
No 5th W of 1877-78.

1877/1878
18.4.77

H. Bellamy
Secy. H. A.
Mily. Dept.

Aspd 4. 5-77

7th Oct 1877 - 20.4.77

100273
Govt. of 1877 Madras
PUBLIC WORKS.

To *the N. E. Bellary*

Dated

Issued

Recd.

Encl.

25/4 1877
G. O. 23rd April 1877, No. 1380

Nos. 526-527

*Royal Artillery Change
Bath at Bellary. The
revised estimate of Rs 2413
for providing apparatus
to fill the — — — — —*

But in Reg.