

(1) Number of pages_____

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MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	1186	Press
B.P. No.		Mis.
Dated	4 - 5 - 195	6874

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
4th May 1874.*

Read the following papers:—

No. 92. From Captain H. M. VIBART, R.E., District Engineer, Bangalore, to Colonel G. W. WALKER, R.E., Chief Engineer, Public Works Department, Bangalore, 24th March 1874, No. 317.

I HAVE the honour to forward herewith, for sanction, an estimate of Rupees 280, with plan and specification, for constructing a tank to contain 1,200 gallons of tar, in Upper Arsenal, Fort of Bangalore.

2. The work has been called for by the Commissary of Ordnance, as for want of accommodation tar to the extent of 1,200 gallons required by the troops is stored in barrels and thereby great wastage is caused.

3. The estimate, etc., have met with the approval of the Officer Commanding the Division.

THE plan and estimate are referred to the Inspector-General of Ordnance and Magazines for approval.

FORT ST. GEORGE, (Signed) G. W. WALKER, Colonel, R.E.,
4th April 1874. Chief Engineer, P.W.D.

No. From Lieutenant-Colonel NAPIER CAMPBELL, R.A., Officiating Deputy Inspector-General of Ordnance and Magazines, in charge of Ordnance Office, to Colonel G. W. WALKER, R.E., Chief Engineer, Public Works Department, dated Fort St. George, 13th April 1874, No. 134.

I HAVE the honour to return plan and estimate received with your endorsement,* amounting to Rupees 280, for constructing a tank to contain 1,200 gallons of tar for Upper Arsenal at Bangalore.

2. I have countersigned the estimate in token of the work being required.

No. 93. ORDER THEREON, 4th May 1874, No. 1,186.

MILITARY WORKS, No. 6.

SANCTIONED for execution from the grant for Minor New Works under Military in Bangalore for 1874-75.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the District Engineer, Bangalore.
.. Military Department.
.. Officiating Controller of Public Works Accounts.

Ordnance Department.

ORDNANCE OFFICE:
Fort Saint George,

13th April 1874.

No. 134

From,

The Offg. Dy. Inspector General of Ordnance and Magazines.
In charge, Ordn. Office.

To The Chief Engineer,
Public Works Department.

Sir,

I have the honor to return Plan & Estimate
^(a) dated 4 April 1874. received with your endorsement ^(a) amounting to
Rupees 280, for constructing a Tank to contain 1200
Gallons of Tar for Upper Arsenal at Bangalore.

2. I have countersigned the Estimate in
token of the work being required.

I have the honor to be,

Sir,

Your Obedient Servant

Napier Campbell Esq. Comd. R.S.

Offg. Dy. Insp. Genl. of Ordn. & Mags.
In charge, Ordn. Office.

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Ex. Off.

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(5)

A Abstract Estimate for Constructing a
Tank to contain 1200 gallons of Tar for Upper
Arsenal Fort of Bangalore.

Quantity	Description of work	Rate Per	Amount	Total
213	Cft. of Excavation	1 q ^{ts}	1	
213	Cft. of Foundation stone in chunam	26	33	
248	Cft. of Basement	26	39	
335	Cft. of Brick in chunam	29	58	
184	Sq. of Stone flooring and pointing with cement	15	28	
484	Sq. of Plastering with Cement two coats	12	58	
3 1/2	Rft. of Stone coping along the top of Tank 1 1/4 feet broad and 4 thick roughly dressed	5	11	
1 1/2	of Ever Wooden with hinges and after jungle wood with rest complete	35	35	
			263	
			17	
			280	

By *[Signature]*
[Signature]
 District Engineer Bangalore
 17 March 1874

[Signature]
 Assistant Quarter Master Captain R.E.
 District Engineer Bangalore.

No. 133
 of
 The Dy. Quarter Master
 of Bangalore
 Bangalore
 1874
 133
 1874

[illegible]

Specification to accompany
Plan and Estimate for constructing
a Tank for Upper Arsenal Fort of
Bangalore.

Amount of Estimate Rupees 280-

The tank will be 11 feet long 4 broad and $4\frac{1}{2}$ high and will be capable of containing 1200 gallons of lar.

The excavation for foundation to be taken down to such a depth as the District Engineer may consider necessary and the bottom taken out perfectly level.

The foundation and basement of the tank to be built with stone in chunam stones laid closely fitted with good bond and well flushed up with chunam on which a flooring of stone slabs having a smooth surface not less than 4" thick with the edges dressed square to be laid

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in chunam joints scraped out and pointed with Portland Cement. Over which the side walls will be 3 feet in breadth at the bottom, and $1\frac{1}{8}$ feet in breadth at top $4\frac{1}{2}$ feet in depth having a batter on the outside and to be built with best made bricks in chunam. The walls to be plastered with two coats of Portland cement. Rough coat to consist of one of Portland cement and one and a half of soorkee thoroughly mixed and applied hot after the joints have been scraped out and the surface well watered. Second coat to consist of pure Portland Cement laid down in a thin paste which is to be smoothed and polished.

The top of the side walls of the tank will have a stone coping

$4\frac{1}{2}$ inches in thickness all round set in and pointed with Portland Cement. The inside of the coping will be flush with the inside walls the outside will project $1\frac{1}{2}$ inches all round. The projecting sides and top to be roughly dressed. The tank to be covered in the shape shown on the plan, with jungle wood planks $1\frac{1}{2}$ thick with hinges see.

The site to be left clean on completion of the work.

All materials used and work done to be of the best description and subject to the approval of the District Engineer of Bangalore who shall have the entire power of ordering and the removal of any work with which he is dissatisfied.

H. Engro Office
Bangalore
March 1884
L. E.

Henry Vivian Captain R.E.
District Engineer Bangalore

District Engineer Bangalore

DISTRICT ENGINEER'S OFFICE.

24th - Bangalore March 1874

(11)

From

The District Engineer,

Bangalore

To

The Chief Engineer

Public Works Department.

Madras

Sir

I have the honor to forward herewith for sanction an estimate of Rs 200 with plan and specifications for constructing a tank to contain 1200 gallons of tar, in Upper Second Fort of Bangalore.

The work has been called for by the Commissary of Ordnance as for want of accommodation ^{top} to the extent of 1200 gallons required by the troops is stored in barrels and thereby great wastage is caused.

The estimate ^{has} met with the approval of the Officer Commanding the Division.

I have the honor to be
Your most Obedt Servant
Alfred W. West Capt. R.E.
District Engineer, Bangalore

1443

1338 of 1873/1

From
The District Engineer
Bangalore

To
The Chief Engineer
Madras

Dated 24th March 1874
Received 19th April 1874
Alfred W. West

for constructing a
tank to contain

1200 gallons of

tar for Upper
Second Fort of

Bangalore.
Amounting to
Rupees 200/-

11/11/11

[Handwritten signature]

217 Macdonald

*Justo de la Cruz
H. H. C. April 7, 1943*

Apr 1874

Dr. J. C. Smith



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Thompson and Reynolds are
referred to the Inspector General of
Ordinance and Magazine for approval.

Amalie Leach
Chief Engineer
1870

Did not understand of

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21/11/20

[Handwritten signature]

217 Macdonald

John A. Healey
#7000
Civil War

Apr 1874

Dr. J. C. Smith



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2.

Handwritten signature: *W. H. H. H.*

48. 24/3/74 25/3/74 26/3/74 27/3/74 28/3/74 29/3/74 30/3/74 31/3/74 1/4/74 2/4/74 3/4/74 4/4/74 5/4/74 6/4/74 7/4/74 8/4/74 9/4/74 10/4/74 11/4/74 12/4/74 13/4/74 14/4/74 15/4/74 16/4/74 17/4/74 18/4/74 19/4/74 20/4/74 21/4/74 22/4/74 23/4/74 24/4/74 25/4/74 26/4/74 27/4/74 28/4/74 29/4/74 30/4/74 1/5/74 2/5/74 3/5/74 4/5/74 5/5/74 6/5/74 7/5/74 8/5/74 9/5/74 10/5/74 11/5/74 12/5/74 13/5/74 14/5/74 15/5/74 16/5/74 17/5/74 18/5/74 19/5/74 20/5/74 21/5/74 22/5/74 23/5/74 24/5/74 25/5/74 26/5/74 27/5/74 28/5/74 29/5/74 30/5/74 31/5/74 1/6/74 2/6/74 3/6/74 4/6/74 5/6/74 6/6/74 7/6/74 8/6/74 9/6/74 10/6/74 11/6/74 12/6/74 13/6/74 14/6/74 15/6/74 16/6/74 17/6/74 18/6/74 19/6/74 20/6/74 21/6/74 22/6/74 23/6/74 24/6/74 25/6/74 26/6/74 27/6/74 28/6/74 29/6/74 30/6/74 1/7/74 2/7/74 3/7/74 4/7/74 5/7/74 6/7/74 7/7/74 8/7/74 9/7/74 10/7/74 11/7/74 12/7/74 13/7/74 14/7/74 15/7/74 16/7/74 17/7/74 18/7/74 19/7/74 20/7/74 21/7/74 22/7/74 23/7/74 24/7/74 25/7/74 26/7/74 27/7/74 28/7/74 29/7/74 30/7/74 31/7/74 1/8/74 2/8/74 3/8/74 4/8/74 5/8/74 6/8/74 7/8/74 8/8/74 9/8/74 10/8/74 11/8/74 12/8/74 13/8/74 14/8/74 15/8/74 16/8/74 17/8/74 18/8/74 19/8/74 20/8/74 21/8/74 22/8/74 23/8/74 24/8/74 25/8/74 26/8/74 27/8/74 28/8/74 29/8/74 30/8/74 31/8/74 1/9/74 2/9/74 3/9/74 4/9/74 5/9/74 6/9/74 7/9/74 8/9/74 9/9/74 10/9/74 11/9/74 12/9/74 13/9/74 14/9/74 15/9/74 16/9/74 17/9/74 18/9/74 19/9/74 20/9/74 21/9/74 22/9/74 23/9/74 24/9/74 25/9/74 26/9/74 27/9/74 28/9/74 29/9/74 30/9/74 31/9/74 1/10/74 2/10/74 3/10/74 4/10/74 5/10/74 6/10/74 7/10/74 8/10/74 9/10/74 10/10/74 11/10/74 12/10/74 13/10/74 14/10/74 15/10/74 16/10/74 17/10/74 18/10/74 19/10/74 20/10/74 21/10/74 22/10/74 23/10/74 24/10/74 25/10/74 26/10/74 27/10/74 28/10/74 29/10/74 30/10/74 31/10/74 1/11/74 2/11/74 3/11/74 4/11/74 5/11/74 6/11/74 7/11/74 8/11/74 9/11/74 10/11/74 11/11/74 12/11/74 13/11/74 14/11/74 15/11/74 16/11/74 17/11/74 18/11/74 19/11/74 20/11/74 21/11/74 22/11/74 23/11/74 24/11/74 25/11/74 26/11/74 27/11/74 28/11/74 29/11/74 30/11/74 31/11/74 1/12/74 2/12/74 3/12/74 4/12/74 5/12/74 6/12/74 7/12/74 8/12/74 9/12/74 10/12/74 11/12/74 12/12/74 13/12/74 14/12/74 15/12/74 16/12/74 17/12/74 18/12/74 19/12/74 20/12/74 21/12/74 22/12/74 23/12/74 24/12/74 25/12/74 26/12/74 27/12/74 28/12/74 29/12/74 30/12/74 31/12/74

Living

in Bangkok für 1874-75

for future her words under making

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17/4/74. Recd

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2194
Govt. of 1874
PUBLIC WORKS.

To
The Dist. Ingr
Bengalore

Dated

Recd.

Encl. 4

G. O. L. 11 May 1874 No. 1186

Nos. 9253

Tank to contain Tar
for upper Orseval at
Bangalore - Estimate
of Rs. 280 for the
construction of the Tank,
sanctions of —