

(1) Number of pages _____

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	1929	Press
B.P. No.		Mis.
Dated	6-7-1275	195

Not to be folded or roughly handled

16

*Proceedings of the Madras Government, Public Works Department,
6th July 1875.*

Read the following papers :—

No. 233. Memorandum from Chief Engineer, dated 17th April 1875, No. 417.

No. 233-A. From Captain ROSS THOMPSON, R.E., District Engineer, Presidency, to Lieut.-Colonel J. MULLINS, R.E., Officiating Secretary to Government, Public Works Department, dated Fort St. George, 10th May 1875, No. 672 :—

WITH reference to your Memorandum, No. 417, dated 17th April 1875, I have the honor to submit, for sanction of Government, a specification report, plan, and estimate, amounting to Rupees 4,500, for constructing a wrought iron cistern and fitting up new piping, &c., for supplying water to bath-rooms in Government House, Madras.

2. The estimate provides everything necessary. The rates are reasonable and sufficient, and no supplementary works will be hereafter required.

No. 28 of 1875-76.

Detailed Estimate of the probable cost of constructing a Wrought Iron Cistern 18' x 15' x 3' 6" and fitting up new piping for use in the Government House—Vide District Engineer's No. 6,914. dated 30th March 1875.

No.	Description of Work.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	RS. A. P.
10,081	lbs. iron work for cistern ...	0 3 0	lbs.	1,890 3 0	
1,500	" rivets ...	0 6 0		562 8 0	
82½	Cubic feet teakwood ...	4 0 0	C. ft.	330 0 0	
	Fitting up and rivetting charges at Government House ...			250 0 0	
10	Squares red lead paint, 1 coat ...	1 8 0	Sqr.	15 0 0	
7	" white lead paint, 2 coats ...	2 0 0		14 0 0	
5	" do. 1 coat ...	1 4 0		6 4 0	
5	Tar painting, 1 coat ...	1 0 0		5 0 0	
	Cart-hire, &c. ...			30 0 0	
	Contingencies ...			155 1 0	
	Total of cistern ...				3,258 0 0
300	R. feet wrought iron pipes 2 inches ...	1 2 0	R. ft.	337 8 0	
400	R. feet wrought iron pipes 1½ inches ...	0 14 0	"	350 0 0	
3	Cast-iron stand pipes 6 inch diameter ...	18 6 0	Each.	55 2 0	
7	Brass cocks 1½ inch diameter ...	12 0 0	"	84 0 0	
4	Do. do. 1 inch ...	8 0 0	"	32 0 0	
	Cost of removing old piping and setting up the new piping, &c... Removing and re-setting the existing pump, &c., in another position as per plan ...			200 0 0	
	Cart-hire to Government House.			100 0 0	
	Contingencies ...			25 0 0	
				58 6 0	
	Total of piping ...				1,242 0 0
	Grand Total ...				4,500 0 0

CHEPAIK,
21st April 1875.

(Signed) J. N. GRAINGER,
Genl. Supt., Public Works Workshops and Stores.
(Signed) ROSS THOMPSON, Captain, R.E.,
District Engineer, Presidency.

Proceedings of the Madras Government, Public Works Department,
6th July 1875.

No. 234. From the District Engineer, Presidency, dated 14th June 1875, No. 1,225.

No. 235. ORDER THEREON, 6th July 1875, No. 1,929.

CIVIL WORKS, No. 17.

THE estimate, amounting to Rs. 4,500,
is sanctioned for immediate execution.
There being no funds at the disposal of
the Public Works Department, the question of an allotment for the work is remitted
for consideration in the Financial Department.

(True Extract.)

Major, R.E.,

Offg. Joint Secretary to Government.

No. 309.

Gout. House
Madras

27th March 1875.

Sir,

I have the honor to inform you
that E. C. The Governor has desired
me to write and ask that a covered
cistern or cistern capable of
holding a sufficient supply of water
for 3 days consumption for the upper
floors of Government House may be
supplied during the absence of E. C.
from the Presidency.

2 The work should therefore be com-
menced after the beginning of May
and completed before the end of
September.

3 A capacity of 25 or 30 Cubic yards
will be sufficient.

4 The water should be led by pipes
from the cistern to the bathrooms on
the 2^d & top storeys of the main
building, & to the upper storey of the
Staff Bungalow by the office also
to the Pantry in the 2^d floor of the
main building.

5 When the situation of the cistern
is determined on, it may be found
possible to remove the ~~pipe~~ ^{pipe} for forcing
up the water to some more suitable
position than it is in at present,
which is just outside the window
of a bedroom where the noise of
the

the pumping is most inconvenient.
6 The work is urgently needed
in as much as there is now no reserve
of water in the upper part of Govt.
House in case a fire should break
out or the Red Hills water supply
be cut off as is the case whenever
there has been a heavy fall of rain.
7. I have the honor to request that
the plan & Estimate may be fur-
nished in the course of next
month i.e. before His Excellency's
departure for Botacamund.

I have the honor to be

Sir

Your Obedient Servant

To
The District Engineer
Presidency
Fort St. George.
(Sd) A. Audry
Private Secretary

Immediate

Nº 118

From The District Engineer
Presidency.

To
The Private Secretary
to H. E. the Governor.

Sir,
With reference to your letter 309 dated
29 March 1875, I have the honor to inform
you that the approximate cost of Cisterns
in the Govt. House will be about
Rs 4,500 --- and to request that you
will obtain sanction of Govt. for the
preparation of detailed plan & Estimates
which are now under preparation in
anticipation of sanction of Govt.

I have the honor to be,

Sir,

Your most Obedt. Servt.

(Signed) J. Goddard Esq.
District Engineer, P. B.

6 April 75:

Recd
21-4-75
AN

Specification to accompany
the plan and Estimate
of the Water Service for
Supplying water to Bath
Rooms &c at Government
House, Madras.

Amount of Estimate Rupees. 4500-0-0

The water is supplied from
the wrought iron cistern 18' x 15' placed
at A on the roof of the Building and
is kept filled by the water being
pumped up from C through the 2"
pipe. The pump at present at B
to be removed to C. as shown in the
plan.

At D and E, points on
the feed pipe leading from the pump
to the cistern, are 1/2" branch supply
pipes leading to the South part of 2nd
and 3rd stories as shown in the plan.

The branch pipe from D
also leads to the Secretary's Quarters
at the South west corner of the building.

The Bath Rooms in the
upper and middle stories in the North
part.

N^o 417
The Presidency District
Surgeon is authorized &
instructed to send in the
detailed Plans & Estimate
for the work alluded to in
these papers, without
delay —
17-4-74.
17-4-75

part of the Building are supplied
by the 2^d pipe leading from the Cistern
at E as shown in the plan.

The pipes in the upper
story are to be fixed as shown in
hard blue lines in the plan and
as shown in dotted blue lines in the
2nd and lower stories.

Presidency Workshops 2nd } J. H. Mearns
Chapante 21st April 1872 } Genl Sup^r to Workshops & Store

Wm Thompson Captain R.E.
District Engineer
Presidency

N^o 20 of 1875/76

Detailed Estimate of the probable cost of
Constructing a Wrought Iron Cistern 18' x 15' x 8'-6" and
fitting up new piping for use in the Government
Stores. Under District Engineer's of 1874 dated
30th March 1875.

Recd
21-4-75
Particulars

	Measurement				Quantity	Total of each work
	Each	Length	Area	Thickness		
Cistern						
Bottom plate	1	18	15	$\frac{3}{8}$	4050	
Side plates	2	18	36	$\frac{3}{8}$	1890	
Do	2	15	30	$\frac{3}{8}$	1575	
Angle iron at Corners	1	80	$80 \frac{1}{2}$	$\frac{1}{2}$	520	
Do at top	1	66	66	$\frac{1}{2}$	429	
Flat iron for Joint Straps		218	4	$\frac{3}{8}$	1090	
Angle iron straps at top. Longitudinal	2	18	36	$\frac{3}{8}$	234	
Do Do Corners	3	15	45	$\frac{3}{8}$	293	10081
Pieces of $\frac{3}{4}$ " diameter	400				1500	1500
Red lead painting inside and outside the Cistern					Sqrs 10	10
White lead paint 1 Coat inside					" 5	5
Tar painting 1 Coat Outside					" 5	5
Teakwood beams	2	20	40	18	9	37 1/2
Do Cover for cistern	1	18	15	2	45	82 1/2
White lead painting 2 Coats for Cover of Cistern					Sqrs 7	7

Piping

Wrought Iron pipes. Diameter

2 300 300

1875/76

Estimate in a letter
from the General Light
to the D.R. Secretary
1875/76 about 1875

21st April 1875

Wrought Iron pipes. Diameter 4" 400 400
 Cast Iron Stand pipes - do 3 dia 6" 504 504
 Brass Cocks 1 1/2" Diameter 4
 do do 1" do 4

P.W. Workshops
 Cheifaut
 21st April 1875

J.H. Crampin
 Gun Sup & Workshop & Store

A. Andrew

10 14 17 18

Abstract of the foregoing Estimate.
 with names bearing

1313

No.	Description of work	Rate	Amount	Total
10085	the Iron work for Cistern	3 " ft	1890 3 0	✓
1500	" Rivet "	6 " "	562 8 0	✓
	82 1/2 Cubic feet battens &c	4 " " ft	330 0 0	✓
	Setting up and rivetting charges " at Government Stances		250 0 0	✓
10	Sp. Red lead paint 1 Coat	1 8 " ft	15 0 0	✓
7	" White lead paint 2 Coats	2 " " "	14 0 0	✓
5	" " " 1 Coat	1 4 " "	6 4 0	✓
5	Tar painting 1 Coat	1 " " "	5 0 0	✓
	Cart hire &c		30 0 0	✓
	Contingencies		158 1 0	✓
	Total of Cistern		3258 0 0	✓
500	Wrought Iron pipes 2"	1 2 " ft	337 8 0	✓
400	" do 1 1/2"	14 " "	350 0 0	✓
3	Cast Iron stand pipes 6" diameter	18 6 " "	55 2 0	✓
7	Brass Cocks 1 1/2" diameter	12 " " "	84 0 0	✓
11	do do 1" diameter	8 " " "	32 0 0	✓
	Cost of removing old piping &c		200 0 0	✓
	Setting up the new piping		100 0 0	✓
	Removing and resetting the existing pump &c in an other position as per plan		25 0 0	✓
	Cart hire to Government house		58 6 0	✓
	Contingencies		1242 0 0	✓
	Total of piping		1500 0 0	✓
	Grand Total Purses			✓

P.W. Workshops
 Cheifaut
 21st April 1875

J.H. Crampin
 Gun Sup & Workshop & Store
 P.W. Workshops
 District Engineer

20

The Chief Engineer, and
Secretary to Government M.D.

Dir.

With reference to your Memo. No 417 dated 17 April 1875, I have the honor to submit for sanction of Government a specification report plan and estimate amounting to Rs 4,500 for constructing a wrought iron cistern and fitting up new piping for supplying water to bathrooms in Government House, Madras.

2. The estimate provides everything necessary. The rates are reasonable, and sufficient; and no supplementary works will be hereafter required.

I have the honor to be
Sir,

Yours most obedient servant
Robt Thompson Captain, R.E.
 District Engineer
 Residence

For the Change - 3
10¹/₂ May 1875. 3

Geo. G. [Signature]

Encl.
1. Plan.
2. Estimate.
3. Specification.

Conceive in a late
from the General
Admiral Smith's
the 26th February
No 2755-72/52 dated 4th

Mr. J. C. /
21/25

(Signature)

PRESIDENCY WORKSHOPS, D. P. W.,
Chepauk, Madras, 11 June 1875.

No. 860

From

THE GENERAL SUPERINTENDENT,

PUBLIC WORKS WORKSHOPS AND STORES,

To

THE District Engineer

Presidency

14 JUN 75

Sir,

In reply to your endorsement No. 888 of 25th ult. in memorandum No. 11 of 22nd idem from Under Secretary to Government P. W. D. relative to tank proposed to be placed on Government House at Madras. I have the honor to enclose detail plan of same showing where the tank is to be supported.

The two beams supporting the centre portion of the tank rest at the ends on wall plates the under sides of the beams being six inches above the present terrace roof.

The breaking weight of the beams under these circumstances is

P. W. D. 1875 D.P.W.

2125

to the Chief Engineer
Presidency
D.P.W.

Letter 10 & 11/5/75
Recd of 11/5/75
Retd to 2/6/75

216072

1875 6-9-25

an estimate of work

at Rs. 4,500 for constructing

a narrow cut from garden

splitting up new property

as per plan of 11/5/75

to both rooms in front
of new building

is about 81 tons each whilst the load to be carried is about 9.15 tons. The total weight of the tank and water will be about 36 tons which being supported by the four walls, whose area in the plan is 98.75 sqft giving a pressure on each square foot of 817 lbs.

The size of the tank has been increased to allow of its bearing fairly in the wall which necessitates an increase in the estimate of about Rupees 237- for iron work and Rupees 42- for wood work.

It would be possible to introduce lead piping for some of the main connections with the Bath Rooms but we have none in store whilst all the necessary "tees" and "elbows" for the iron piping are available.

I have the honor to be
Sir,

Your most obedient servant
J. H. M. M. M.
Genl. Supt. P. W. Workshops & Stores

1000

20. May 75.

Ans. W.E. Presiderney. No. 672 dated 10-5-78

The District Engineer Presbury is requested to be good enough to explain how the water cistern which it is proposed to place on the roof of J^{ts} House Messrs is to be carried. Its weight when full will be at least 31 tons.

2. It is suggested that some of the masonry connections with the bath rooms might be more easily made with lead instead of iron piping — by order.

by order.

Aug 8

RIOT ENGR.'S OFFICE, PREST.,
19 July 1875.
The Chief Assistant,
Negotiation,
Government Secretariat,
P. W. D.

Head Office.

OL

19 July 1875.
N.G.B. OFFICE, PRESTON.

Sh-h-h
Leopoldo

Requested for reference the under-mentioned papers:—
 Envelope (Plan) of the District Engineer.
 Letter No. 672 of 10th May 1875 printed with
 Jy. O. No. 1929 of 6th July 1875

MEMORANDUM

Robert Ingemar
Pierdane 7.
Avis
Avis

Mr. J. H. Jones
25.08

Lucy.
1/18/80.

1/2/20

Submitted to the Chief Engineer,
and Secretary & Capt. J. R. D. with
reference to his memo. no. 14 of 222 may.

20.12.25

From
P. W. 1875 Oct 11

From

The General Superintendent

P. W. Workshops

Thru

The *British Empire*

100

Dated 11 June 18

Received 1/10/00

No. 860/100

ENCLOSURES.

Continued on page 1

Witnessed and sworn to before me

March 10 - 1944

Government funds to

Accepted.

for

10.11.2020

1

10/10/10

Public Works Dept.
2513

Proceedings of the Madras Government
Under date the 18th 1875
Read the following

Chief Engineer's Memo: (H.E. No. 417 of 17th April/75)
From The Dist. Eng. Presidency (H.E. No. 672 of 10th May 1875)
" do " do " (H.E. No. 1225 of 14th June 1875)

G.O. no. 1924 of 8th July/75

The estimate
amounting to Rs 4,500
is sanctioned for immediate
execution. There being no
funds at the disposal
of the Public Works Dept.,
the question of an allot-
ment for the work is
remitted for consideration
in the Financial Dept.

D.C. Presidency 440
Finl. Dept. 64
Cont. W. & F. 4
sc no. 13-7-75

Order
11-25/6

Ch: Engrs: Memo:

3129

3935

Govt. of Madras.

PUBLIC WORKS.

To

The D. Engr.
Residency

Dated

Issued

Recd.

Encl.

G. O. Duly No. 1929

No. 233-35

Construction of a wrought iron
cistern and the fitting up of
new pipes &c. for supplying
water to the bath rooms in
Government House, Madras.
Estimate of Rs: 4,500 for the
—, sanctioned for
immediate execution. The question
of allotment for the work, is now
for consideration in the Financial
Department.