

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	347C	Press	<i>Original</i>
B.P. No.		Mis.	
Dated	12 - 2 - 1874	195	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
12th February 1874.*

Read the following letters :—

No. 242-E. From Colonel E. A. FOORD, R.E., Inspecting Engineer for Civil and Military Buildings, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Chepauk, 6th January 1874, No. 8.

WITH reference to the Order of Government of the 23rd of September 1873,

One plan.
" estimate.
" specification.

No. 163, I have the honour to forward, for sanction, an estimate of Rupees 2,940, accompanied by plan and specification, for fixing two boilers in the General

Hospital at Madras and utilizing at the same time Mr. Orr's punkah-pulling machinery.

2. The estimates forwarded with my letter of the 17th July, No. 800, amounted to Rupees 21,270 and Rupees 9,720, respectively. The first of these provided for the removal of the punkah engine and boiler to the building containing the cistern, and the second estimate was for placing the boilers on the roof of the Hospital above the engine. The object in both cases was to remove the boilers to a greater distance from the patients in the Hospital so as to lessen the danger from an explosion.

3. I stated in my letter that the danger would be considerably lessened, even with the engine in its present position, by having a second boiler, the engine having hitherto been worked with only one, and I pointed out the room in which the second boiler might be fixed. This room, it appears, is wanted for other purposes; but a still more convenient site has, with the concurrence of the Medical Officer of the Hospital, been selected, and the project in its present form has been approved by the Head of the Indian Medical Department.

4. The two boilers are in the compound of the General Hospital, and, if early sanction is given to the estimate, they may be fixed and the machinery be in working order before the hot weather sets in.

No. 242-F. From Lieutenant-Colonel J. GODDARD, R.E., District Engineer, Presidency, to Colonel G. W. WALKER, R.E., Chief Engineer and Secretary to Government, Public Works Department, dated Fort St. George, 3rd February 1874, No. 5,129.

Adverting to your Order, No. 63, dated 30th January 1874, I have the honour

One estimate with abstract.

to submit a revised estimate, amounting to Rupees 2,360, for fixing two boilers

in the General Hospital at Madras and utilizing Mr. Peter Orr's punkah-pulling machinery.

		RS.
Original estimate...	...	2,940
Revised do. ...	...	2,360
		580

2. The reduction of Rupees 580 has been effected in the following manner :—

I. A sum of Rupees 27-7-11 has been saved by substituting shell for stone lime.

*Proceedings of the Madras Government, Public Works Department,
12th February 1874.*

- II. Two iron railed doors for the boiler-rooms have been omitted, which saves Rupees 420.
- III. Rupees 100 are recovered by omitting a wooden pipe leading through the roof for carrying off and condensing the vapour. The estimate provides two pipes, but it is hoped that one can do the work required.
- IV. Rupees 32-8-1 in the item of "Sundries."
3. No reduction can be effected in item No. 3, "Fitting Charges for two Boilers," which were estimated by the Public Works Workshop Department.
4. Under the authority conveyed in your Order under acknowledgment the work has been put in hand, and I request the sanction of Government and an allotment of funds from any source at their disposal.

No. 242-FF. ORDER THEREON, 12th February 1874, No. 347-C.

CIVIL WORKS, No. 20.

Engineer for Buildings submits a plan and estimate, amounting to Rupees 2,940, subsequently reduced to Rupees 2,360, for fixing two boilers in the General Hospital at Madras and utilizing Mr. Orr's punkah-pulling machinery.

Special Assistant Agent's Bungalow at Korapett, Budget Item No. 11...	es. 2,000	2. His Excellency the Governor in Council approves of the proposed arrangements and directs their immediate execution by transfer from the funds given up in letter from the District Engineer, Vizagapatam, No. 1,903, of 26th January 1874.
Subsidiary Jail at Korapett...	360	
Total...	2,360	

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Inspecting Engineer for Buildings.
" District Engineer, Presidency.
" do. Vizagapatam.
" Consulting Architect.
" Acting Controller of Public Works Accounts.
" Financial Department.
" Accountant-General.

Exd. A. S. Rodgers.
Spare Copies

No. 8

OFFICE OF THE INSPECTING ENGINEER
FOR CIVIL AND MILITARY BUILDINGS,
Chepauk, 8 January 1874.

From THE INSPECTING ENGINEER
FOR CIVIL AND MILITARY BUILDINGS,

To The Secretary to Government
Public Works Department

SIR,

Enclosures
1 Plan
1 Estimate
Specification

With reference to the order of Government of the 23rd of September 1873, No. 163, I have the honor to forward for sanction an estimate of Rs. 2940, accompanied by plan and specification for fixing two boilers in the General Hospital at Madras and utilizing at the same time Mr. Orr's punkah pulling machinery.

2. The estimates forwarded with my letter of the 17th July, No. 800, amounted to Rs. 21270 and Rs. 9720 respectively. The first of these provided for the removal of the punkah engine and boiler to the building containing the cistern; and the second estimate was for placing the boilers on the roof.

roof of the Hospital above the engine.
The object in both cases was to remove
the boilers to a greater distance from
the patients in the Hospital so as
to lessen the danger from an explosion.

3 I stated in my letter that the
danger would be considerably lessened,
even with the engine in its present
position, by having a second boiler,
the engine having hitherto been worked
with only one, and I pointed out
the room in which the second boiler
might be fixed. This room it appears
is wanted for other purposes, but
a still more convenient site has,
with the concurrence of the Medical
Officer of the Hospital, been selected,
and the project in its present form
has been approved by the Head
of the Indian Medical Department.
The two boilers are in the corner
of the General Hospital,
and if early sanction is given to
the estimate, they may be fixed
and the machinery be in working

order before the hot weather sets in

I have the honor to be
Sir

Your Most Obedient Servant

E A Ford Colonel
Inspecting Engineer for
Civil & Military Buildings

Copy to be sent to the
Honble Secy of the
War

28

2/19/85

order

No. 8

8458

for Building,

To

The Secretary to
J. D. D. W.

Oct 3476.12.58 Aug 14

Dated 6-7-1874
Recd 2-1874

1896 Nov 12

1845-1849

Thomas de
Education

2940 for fixing tubes

Amos in the General
Hospital at Boston

and utilizing Jim Giff's

fourth-fifth brood:

0. duty.

No 2426

Aug 24/96

PRESIDENCY DISTRICT.

Mo. B. - Getting up a boiler in the present boiler room and an additional boiler in the new room for working the Portland cement machinery in the General Hospital at Brad's.

Quantity.	Description of Works.	Price.	Amount.	Total.
	No 1 Making alterations in the rooms of the Lower Story. 1113 1/2 Cms building the masonry walls and removing or demolishing for forming the archways for the entrance of the Bachelors' room. ✓	0 10	69 93	✓
285 1	Corky lime for forming circular arch work in Chumam for the kitchen room. Corky lime for cutting the cope wall and forming circular arch work in B. ✓	0 49	84 99	✓
180 1	Left Bricks used in Chumam Plastering the wall with 2 Cts. stone chumam ✓	0 25	72 80	✓
1990 1	Excavating foundations and Landry charges &c. No 2 Constructing beds for setting up Bachelors in the Lower story. ✓	0 40	26 90	✓
500 1	Left Laying concrete under the foundation Brick work in Chumam ✓	0 25	64 23	✓
95 1/2	Circular arch work in Chumam to floor ✓	0 29	22 69	✓
400 1	Left Plastering with 2 Cts. stone chumam ✓	0 40	29 12	✓
333 1	Left Lime brick work in clay ✓	0 40	339 15	✓
325 1	Left Plastering with new 8" gyp bricks in Chumam and painting in stone lime ✓	0 78	24 60	✓
2	Excavating foundations and removing the earth for wooden ventilators across each kitchen room area ✓	0 70	7 00	✓
190 1	Footings for the chimney up to the roof of the 2 ^d story ✓	1 00	200 00	✓
264 1	Left Double stone courses of teatwood frames and lined with felt. Removing the asphaltic floor where required Landry Charges &c. ✓	0 12	198 00	✓
			50 00	✓
			60 12	✓
			1300 00	✓
	Grand Total		1540 00	✓

Handwritten notes at top of right page.

Handwritten notes on right page.

Handwritten notes on right page.

Handwritten notes on right page.

Handwritten notes on right page.

Handwritten notes on right page.

Handwritten notes on right page.

to be laid on, and 25 feet of copper steam

930

John Rogers

Chief Engineer

John Rogers

Chief Engineer

Chief Engineer

Chief Engineer

Chief Engineer

Chief Engineer

Chief Engineer

Chief Engineer

Chief Engineer

Chief Engineer

Presidency District

Enclosed in a letter No 8
D 76 Jan 1874

P. N. 58/74
2

Abstract Estimate
for setting up a boiler in the
present boiler room & an
additional boiler in the
Nurses room for working
up the Pankaj pulling
machinery in the General
Hospital at Madras.
Amount of Estimate Rs 2,500

March 2500

Estimate No 383 of 1873-74

B Specification report to accompany
a Plan and Estimate for fixing two Boilers
vizt; one in the present boiler room, and
the other in the Nurses room, for working
the Pankaj Engine in the General Hospi-
tal at Madras.

Amount of Estimate Rs 2,500.

Two rooms indicated in plan
measuring respectively $30' \times 13\frac{1}{2}'$ and $42' \times 10'$
to be appropriated for the 2 Boilers - one
in each room.

The Boilers are to be set on ma-
sonry beds paved with fire bricks as per
plan resting on concrete foundations of
one foot depth.

Two flues are to be constructed with
fire bricks connecting the Boilers with the
existing chimney.

The Boilers are to be thoroughly
repaired, and cleaned, and steam pipes to
be fixed over the flue between the Boilers.
72 running feet of 3 inch blow-off piping
to be laid from the Boilers.

Two wooden ventilators each one
foot square to be fixed one in each Boiler
room.

20 running feet of water service pipe
to be laid on, and 25 feet of copper

steam

steam pipes of 2 1/2 inches diameter.

Two masonry cisterns 6 x 2 x 1 1/2 to be built on or level with the floor, with an iron cover to supply the Donkey Engines.

The present doors to be removed, and large archways to be opened out and iron railed doors to be fitted in them.

Two screens to be erected in front of the Boilers rooms, consisting of teakwood frames covered with felt.

The asphalted floor to be repaired where necessary.

Chas. J. [Signature] S. J. [Signature]

District Engineer of
Presidency

Fort St. George
10th Nov. 1873

Camp
[Signature]

15

17

From
The District Engineer
- Presidency

To
The Chief Engineer &
Secretary to Govt
M. S.

Sir
Adverting to your
order N 63 dated 30 January
1874, I have the honor to
submit a revised estimate
amounting to Rs 2360 for
fixing two boilers in the
General Hospital at Madras,
and utilizing Mr Peter Orr's
punkah pulling machinery.

Enc. 1
1 Estimate
with abstract.

Original Est^{ce} 2940.
Revised - Rs 2360.
Rs 580

2. The reduction of
Rs 580 has been effected
in the following manner.

I A sum of Rs 27-7-11
has

Presidency District.

Enclosed in a letter is
of 6 January 74

P. N. 538/74
Specification report
to accompany Estimate for
erecting up a boiler in the
General Hospital and for addi-
tional boiler in the General
Hospital for working up the
punkah pulling machinery
in the General Hospital
at Madras
Amount of Estimate Rs 2500

has been saved by substituting
shell for stone line.

II. Two iron railed doors for the Boiler rooms have been omitted which saves Rs 420.

III. Rs. 100 are recovered by admitting a wooden pipe leading through the roof for carrying off & condensing the vapour. The Estimate provides 2 pipes; but it is hoped that one can do the work required.

IV. No. 32-8-1 in the
item of sundries.

3. No reduction can
be effected in item No 3
"Fitting charges for 2 Boilers"
which

which were estimated by
the Public Works Workshop
Department.

4. Under the authority conveyed in your order under acknowledgement, the work has been put in hand, and I request the sanction of Govt and an allotment of funds from any source at their disposal.

I have the honor to be

Yr most Obedt Servt

No present Liberty

4
Dart. Li. Grözel
3^o. February 1874 }

District Eng. $\frac{23}{6}$

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.

1874/2

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Wm. L. P. C.
Chief Engineer

Abstract of Estimate No. 487 of 1873-74:

PRESIDENCY DISTRICT.

Washed. Getting up a Boiler in the furnace brick room and an additional brick in the furnace room for warming the Pambala pulping machinery in the Special District at Chasaba

Quantity.	Description of Work.	Price.	Amount.	Total.
12	Working alterations in the 2 rooms of the Lower Storey.			
113 1/2 Ckts.	Demolishing the masonry walls forming a slop drain for forming the arch ways for the entrance of the County fire for forming Circular brick arches in chimneys for the brick room County fire for cutting the roof on the masonry forming Circular brick arches in Ckts.	1 1 19 2	69 93 84 99	
180 Ckts.	Bricks used in chimneys	20	72 80	
625 Ckts.	Plastering the wall with a sand chimney Securing foundation and chimney charges &c	2 26	14 164	

Quantity.	Description of Work.	Price.	Amount.	Total.
506 Ckts.	Bricks used in the foundation	2 1/2	67 33	
1900 Ckts.	Bricks used in chimney	2 25	300 95	
9578	Circular brick arches in Ckts.	2 39	22 67	
700 Ckts.	Plastering with a Gato chimney	2 26	16 66	
332 Ckts.	Thin bricks used in clay	1 1/4	339 45	
325 Ckts.	Plastering with mud & clay bricks in chimney	6 18	22 23	
	Securing foundation and securing the walls Water installation in Boiler room and fast Ckts Carried up to the roof of the 2nd Storey		7 100	
264 Ckts.	Double chimney made of half bricks, flues and brick with flues	12	198	
	Reinforcing the Asphalts floor and securing Chimney charges &c		50	
			46 53	
				1170
				1430

Revised Estimate of the probable expense of Setting up a Boiler in the furnace below room and an additional boiler in the new room for working the Pambak pulping machinery in the General Workshop at Meenar, Hyderabad in obedience to G. O. No. 163 of 23 dated 13th May 1874.

MEASUREMENTS.						PRICE.			AMOUNT.			TOTAL.			
Number.	Length.	Breadth or thickness	Depth or Height.	Superficial feet.	Cubic feet.	Rupess.	Annas.	Pice.	Per.	Rupess.	Annas.	Pice.	Rupess.	Annas.	Pice.
1	10.6	2	10.6		220.2										
2	10	2	10.9		64.5										
1	2	2	11.13		155.2										
2	4	2	11.6		92										
1	18	2	1	6	39										
1	19	2	1.6		57										
3	15	2	1.6		142										
1	18	2	1	6	39										

10363

Quantity.	Description of Works.	Price	Amount.	Total.
25	Running feet. Copper Steam pipes 2 1/2" diameter by 1/2" thick.	3 1/2	93 1/2	
72	or 8 Cast iron discharging pipes each 1/2 by 3" diameter.	13 8	108	
	Pattern Charges		20	
1	Large Steam Cook 2 1/2" diameter		30	
20	Running feet. Steel pipes 2" dia	3	60	
	Gummy ropes Canvas, silk & other loss in material.		50	
	Labour for working up materials & for laying & for		150	
	Repairing testing and placing 2 Boilers each 2 1/2" dia		300	
	in position and repairing 2 Cast iron pipes		50	
	2 Iron Boilers each with cover complete.		60	
50	Running feet. Copper water pipes with brass cocks.	1 1/2	75	
	Pattern Charges		20	

1430

Drilling charges for 2 Boilers.

[illegible]

The Chief Engineer has the honour to state that having ascertained that the date for pulling Pombaha at the General Hospital is fixed for the 1st March, and finding nothing in the details of the estimate of Rs 2940 for arrangements preparatory to pulling them by Steam Tug. he could reasonably object, and no further delay being allowable if the work was to be done in time, he took upon himself the responsibility of or-

Machinery.

Geo

during the Presidency
District Inspector to carry
out the work with
all speed; intimating
to him at the same
time that the expense
was still objected to
as great, & desiring
that every possible
saving might be made -

Compared with the
alternative estimates
disposed of in G.O. No.
2010 of 14th August 1873,
amounting to Rs 21,270
and Rs 9720, the expense
now proposed to be in-
curred is not great;
and it may be pro-
vided by transfer from
grants for works in

Jephson which the Asst.
Agent reports that he
is not able fully to anti-
cipate -

Amr.
2.2.74.

The Chief Secy will
no doubt see the
the cheap ~~done~~
as he has ordered
to be done on all
Secty Mr.

9/2

ProD

N^o 347. C. *Amel*

Proceedings of the Madras Government

Read the following

From the S. Secy for
Buildings
H. Secy. Presidency (H. E. No. 5129 of 3rd Feb/74)

N. E. No. 8 of 6th Jan/74

H. E. No. 5129 of 3rd Feb/74

Md
1/2

In accordance with
the instructions com-

municated in S. O.

163 dated 23rd Sept/73

This check appears to be
for a blank -
I heard of a D.P. for
the Baker the Inspecting Engineer
orders of Rs. 700 (?) the Sd/- for Buildings submit
were allowed to do it & the
work was done for 300 Rs. a plan and estimate
a less. Ist bill for price amounting to Rs. 2940
subsequently reduced to Rs. 2360
for fitting two Boilers

in the General Hospital

at ~~the~~ and utilizing

machinery.

Wid

[Faint, mostly illegible handwritten notes on the left page, possibly bleed-through from the reverse side.]

No 584 642 
Govt. of 1874 Madras.

PUBLIC WORKS.

The Inspecting Cms
for Buildings

Dated

Recd.

Encl. 547C

G. O. 12 Feb 74 No. 347C.

✓
Nos 2426-2427 +
2427-71

at Hospital, Madras.

any orders in the plan
for giving two orders
at Hospital & utilizing
the same for pulling
down.