

(1) Number of pages 10

(2) Date of repair 12-3-43.

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. <u>4022</u>	Press Mis.
<u>423-424.</u>	
Dated <u>20-12-</u>	<u>1866.</u>

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
20th December 1866.*

No. 423. Read the following letter from the Superintending Engineer, 3rd Division, to the Secretary to Government, Department Public Works, dated Bellary, 7th November 1866, No. 2,494 :—

* No. 2,571, dated 4th September 1865.
„ 2,769 „ 20th „ „

† No. 2,165, dated 5th November 1866.

1. With reference to the Orders as per margin,* I have the honor to forward, for the information of Government, an original docket† from the Deputy

Assistant Quarter Master General of the Division, with copy of a report from the Officer Commanding Her Majesty's 76th Regiment. You will observe that the Major General Commanding the Division considers that it is not advisable that any further trials should be made, as the cost of the former trials had been so great.

2. I would, however, beg that this department may be permitted to make a trial, as a high wind was blowing when the former trials were made, and as there was no cover to the pan of course a longer space of time was necessary to bring the water to the boiling point. The cost of making the trial would not exceed Rupees 3.

3. A plan of the boiler, &c., is herewith forwarded.

Memorandum from the Deputy Assistant Quarter Master General, Ceded Districts, to the Superintending Engineer, 3rd Division, dated Bellary, 5th November 1866, No. 2,165.
Your Docket No. 2,406 of 3rd instant.

Forwards copy of last report on Bug Boilers, received from Officer Commanding 76th Regiment. Since the cover has been put on no trial has been made, as the trials which have already been made have cost so much the Major General does not consider it advisable another trial should be made.

By Order,

(Signed) R. D. THORPE, Captain,
Dy. Asst. Quarter Master General.

Memorandum from the Officer Commanding Her Majesty's 76th Regiment, to the Deputy Assistant Quarter Master General, Ceded Districts, dated Bellary, 18th May 1866, No. 628-2 M.

Reports as follows on another experiment made with a Bug Boiler :—

1st.—It took four hours to boil it full of water.

2nd.—It took 416 lbs. of wood to boil the water.

3rd.—The fire does not get round the bottom of the boiler for the want of ventilation on the sides, and it is not near enough to the boiler.

4th.—The chimney would not draw with the perforated tin fixed in it, and it had to be removed.

(True Copy.)

(Signed) R. D. THORPE, Captain,
*Dy. Asst. Quarter Master General,
Ceded Districts.*

No. 424. ORDER THEREON, 20th December 1866, No. 4,022.

MILITARY WORKS, No. 27.

The Government are not surprised to learn that the Bug Boiler reported upon in the foregoing papers was found to require an excessive expenditure of fuel to boil the water within it, as they

*Proceedings of the Madras Government, Public Works Department,
20th December 1866.*

observe, from the unskillful mode in which it is set, that the fire, instead of being placed in a properly constructed grate so that the air should pass through it and carry the flame against as large a surface as possible of the bottom of the boiler, is simply put upon the floor, and whatever heat is generated from it is carried by the draft directly to the flue. Moreover, only a small part of the boiler, equal to three feet in diameter, is exposed to what little heat can reach it. If the same boiler be set somewhat in the mode shown in the accompanying plan, there is little doubt that a comparatively moderate supply of fuel will suffice to heat it.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 3rd Division, with Plan.
,, Military Department.

Ed. S. T. Augustin.

to the Boiler.

*Hth The chimney would not draw
with the perforated tin fixed
in it and it had to be removed*

*(Signed) W. Brewster Col
Comd'g 76th Regt*

(True copy)

*H. Hooper. Capt
Det 8th Madras Co*

Your most obed

084640/18

Bellary
18th Day of May 1866
Received 19th D^o

To
The Off^r Commanding
Havildar 76th M^t
The D^r of the
Local District

4th 628
2nd

Report as follows
On another experiment
made with a Boil^r
Boiler.

1st It took 6 hours
to boil it full of water.

2nd It took 1, 16 lbs
of wood to boil the
water.

3rd The fire does not
get so red the bottom
of the boiler for the

want of ventilation
on the sides and
not near

Dec. 20th Dec. 1866 to 1.23.

N^o 2494

From

To

Sir

The Superintending Engineer
3rd Division

The Secretary to Government
Public Works Department

Supy. Engrs Office 3rd Divⁿ
Bellary 7th Nov. 1866.

1571.745 Sept. 1865
2769.205

N^o 2165 D^r 5 Nov
1866

With reference to the orders as per
margin, I have the honor to forward for the infor-
mation of Government an original Docket from
the Deputy Assistant En^g Major General of the Division
with copy of a report from the Officer Commanding
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Major General Commanding the Division considers
that it is not advisable that any further trials
should be made, as the cost of the former trials had been
so great.

2. I would however beg that this Department
may be permitted to make a trial as a high wind was
blowing when the former trials were made and as there
was no cover to the Pan, of course a longer space of time
was necessary to bring the water to the boiling point.
The cost of making the trial would not exceed Rs 3.

3. A Plan of the Boiler etc. is herewith
forwarded.

I have the honor to be.

Sir
Your most obed^t servant.

A. W. S. Major A. C.
Superintending Engineer
3rd Divⁿ

Circulate.
Print all the papers.

Public Works Department
No. 1022
Proceedings of the Madras Government
Under date the 20th Decr 1866.

Read the following
From
The Superintending Engineer
of the 3rd Division (H.E. No. 2494 of 7th Nov. 1866)

The Government
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instead of being placed
in

N.
H.
W.

1866
H.E. No. 2494 of 7th Nov. 1866

3rd Division
Superintending Engineer

1866
H.E. No. 2494 of 7th Nov. 1866

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boiler be set somewhat in the mode shown in the accompanying plan, there is little doubt that a comparatively moderate supply of fuel will suffice to heat it.

To the Superintendent, 3rd B^{ty}
with plan
" Only: Dept. ✓

W.B.

23

3

Decr. 21st December

P. W. W. D. D.

Pro: of the Deer

No 22

Pro: of the Deer

of the Deer

The Supp. Bags
furnished with certain
instructions relative to the
experiment lately made
with Bag Bales at Bil.
lary.

No 23-424.