

(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. 1542 (W) Press

~~Mis.~~

Dated

8-11-

1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

8th November 1877, No. 1,542 W.

Buildings and Roads.
Military Works.

Read the following paper :—

No. 72. From Captain J. L. L. MORANT, R.E., District Engineer, Nilgiris, to the Chief Engineer, Public Works Department, dated Ootacamund, 1st August 1877, No. 309.

WITH reference to the accompanying extract from remarks by His Excellency the Commander-in-Chief endorsed by No. 1,818 of the 25th ultimo from the Assistant Quartermaster-General, Mysore Division, I have the honor to submit an estimate, amounting to Rupees 360, for furnishing six of the married quarters at Wellington with cooking stoves.

2. I have selected the open fire cottage range with cast oven and boiler (page 18 of catalogue), but at the same time beg to forward a catalogue from Messrs. Yates, Heywood, and Company, from which any other range which may be considered more suitable can be chosen.

3. The size of the range must not be wider than 3 feet nor deeper than 1 foot 6 inches.

4. I beg to append copies of previous correspondence.

P.S.—I particularly beg the favor of the return of the catalogue when done with.

No. 73. ORDER THEREON, 8th November 1877, No. 1,542 W.

HIS GRACE the Governor in Council does not approve of the use of English open fire-places with ovens and boilers as proposed by the District Engineer, Nilgiris, for the family quarters of the Wellington Barracks. Such fire-places are neither economical nor lasting, and are not suited for the consumption of wood as fuel.

2. His Grace is of opinion that the ordinary old-fashioned "hearth" with the usual central depression or pit to contain the smouldering ashes, fitted with a few cross bars, to carry say a couple of cooking pots, will meet all that is required.

(True Extract.)

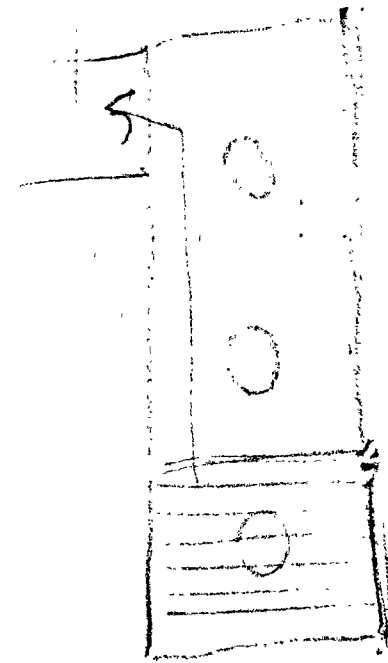
Col., R.E.,
Secretary to Government, P.W.D.

To the District Engineer, Nilgiris, with book of samples returned.

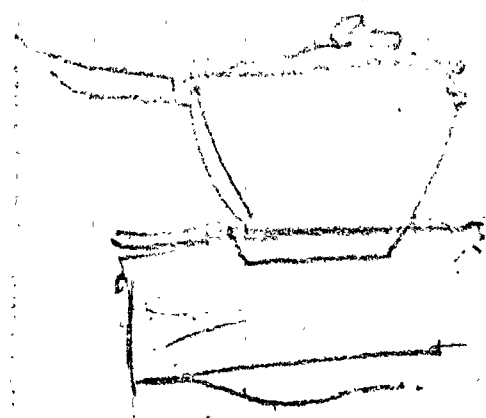
Exd. J. W. Fischer.
Spare Copies

✓ J. M. D.

Memorandum by Chief Engineer



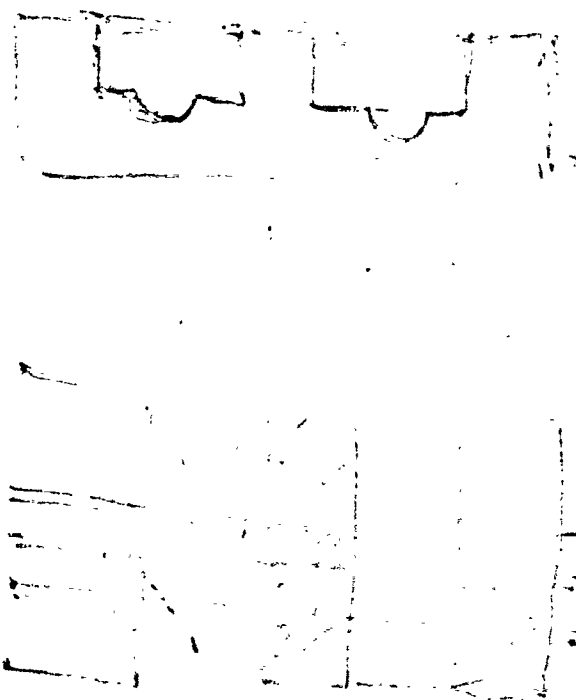
The Chief Engineer considers Cast Iron boilers are ill adapted for Barrack purposes. Once, even for a few minutes a fire is lighted in the grate and the boiler empty it is sure to crack and thus be rendered useless. He questions also the advisability of open fire places in Barrack rooms with boarded floors, and believes a closed fireplace with hot plate pot holes and covers, with a swallower will be found to be more useful and safer. Water can always be kept hot in a Copper caldron placed on



on such stones.

Ed. Mnd Colonel, R.E.
Chief Engineer P.W.D.

Fort St George
9th August 1877



Rb. " Rnt. "

1877. 7. 14. 1877

20th

Read the following
Letter from the District Engineer, Nidgheries No. 399.
dated 1st August 1877.
Memorandum by Chief Engineer P.W.D. dated 9th August
1877

FOR ORDERS.

Ed. Mnd Colonel R.E.
Secretary to Govt P.W.D.

Fort St George
9th August 1877

I think the papers will
be sent to the C. in C.
for opinion
Capt. Stewart's proposal
to cost Rs. 7200 for
the 120 lbs Gps.
The A. Eng. gives no
estimate of the cost
of his alternative
proposal. [St.]

To the C. in C.
As a cottage owner

My experience is that
in England when furnaces
are moderately careful
their fuel of 2 days - are
out of order. by cracks
in boiler or broken fronts
in 2 years -

They cannot be used with
good fuel satisfactorily
& unless dampers are
carefully watched are
exceedingly wasteful of
fuel.

I doubt whether any
thing will be found for
good fuel better than
the old fashioned
'hearth' formed as a
small pit - so as to
contain the smouldering
ashes - & fitted with
a few bars to carry the
grate - or divided into
2 hot holes as suggested
by Mr Ford

From what is known of
iron stores - as far as
my limited experience in
England goes they are due
to the neglect of the boiler
men & iron makers. Under
careful heat they would
be in constant danger
of failure. And the use of
iron as fuel is not in
any place in the world
the labourer's wife keeps
something quite simple, but
in a small town where
unemployment is common
I must also be easily
perceivable - much better as
very extravagant waste of
fuel.

At Wellington, one of the great
faults seemed to me the
chimneys smoking - the cause
greatly discomfited to the high
& to the whole family - and
a matter of course increased
the difficulty of looking
through the suggestion

If this were the person thought
he must - and that of the chief
engineer - in a few of the
questions. A report would be
called for. H. C. M. 30th Sept 1877

My experience is that
in England stoves
are moderately careful
them out of 2 years - are
out of order. By cracks
in boiler or broken joints
in 2 years -

They cannot be used with
wood fuel satisfactorily
& unless dampers are
carefully watched are
exceedingly wasteful of
fuel.

I doubt whether any
thing will be found for
wood fuel better than
the old fashioned
'Hearth' formed as a
small pit - so as to
contain the mouldering
ashes - & fitted with
a few bars to carry the
fuel - or divided into
2 hot holes as suggested
by Mr. Ford.

I am not in favour of
iron stoves - As far as
my limited experience in
England goes they are sure
to be neglected & to become
very soon useless. Unless
carefully kept they consume
an extravagant quantity
of fuel - and the use of
iron as fuel is not an-
templated in their construction.
The Scotch wife needs
nothing quite simple, which
can give a meal with little
consumption of wood-fuel.
It must also be easily re-
pairable - and become a
very extravagant charge to
Government.

At Haddington, one of the great
faults seemed to me the
chimneys smoking - this causes
great discomfort to the wife
& to the whole family - and is
a matter of course increases
the difficulty of looking after
the house.

If I were the person to try to
be tried - and that of the Chief
Engineer - in a few of the
questions. A report could be
called for.

Atacama
30th August
1877

FOR ORDERS.

Handwritten notes, possibly a signature or address, in the top left section.

Handwritten notes, possibly a signature or address, in the middle left section.

Handwritten notes, possibly a signature or address, in the top right section.

SG.

15-8-77. 13.7.77

Handwritten notes at the bottom right, possibly a signature or address.

Chief's Office.
Head Quarters, Ootacamund
30 Aug. 77

Memorandum No. 550.

Papers referring to Cooking
Stoves for the married
quarters at Wellington - see
30 Aug. 77.

The Secy: Secy: & the Chief
has been informed & returns the
papers - to be merged - with
remarks thereon by the Secy:
the Chief.

Ensign, Capt. Mr.
Chief Secy to the Chief.

To
The Secy: Secy:
D.P. Works.
Madras.

Extract of Remarks of His Excellency the Commander in Chief
conveyed in Letter No. 38 of Ootacamund 20th July 1877 from
D. Mr. General to Officer Commanding Mysore Division

"Cook Room for Married Quarters. Regarding the scheme for
converting two quarters of each block into Cook houses, submitted
with your letter No. 1680 dated 30th ultimo, and estimated to cost
approximately Rs 12,000, His Excellency asked a number of the
soldiers wives whether, if such Cook houses were constructed, they
would use them. The replies were not at all satisfactory. A
common Cook room for 14 families would have its inconvenience and
would probably lead to many disagreements about the quantity of
fuel used &c. - It is observed that in the Supplementary list of
Major Works for 1878/79 submitted by you, is a project, estimated
at Rs 6000 for supplying cooking stoves for the married quarters.
It is not understood what the details of this project are, but,
considered generally, His Excellency thinks that a separate cooking
stove for each quarter would be preferable to the scheme of
Cook houses proposed. It has also the recommendation of being
cheaper. Before incurring the expense of even cooking stoves for all
the married quarters, His Excellency thinks they might be tried
in a few first - say 6, and if found to answer might then
be recommended for all. In Bengal separate Cook houses
for married quarters at Hill Stations are not allowed.

No. 1818.

True Extract

To The District Engineer
Malgherry Range
Ootacamund

Forwarded with a request that he will take steps
to furnish 6 married Quarters with cooking stoves as a
tentative measure.

By Order

Asst D. Mr. Genl Office
Pamphlet 20th July 1878

H. P. Smith, D. Colonel
Asst. Genl D. Mr. General

Approximate Estimate No. of 1877-78

Nilgiri District

work. Approximate cost of providing 6 of the main
quarters at the Wellington Barracks with "Yates Keyway"
400's open fire cottage range, with Cast Iron Boiler -
Size - 36 inches in width, 14 inches in depth, fire 12 inches -

No.	Particulars	Rate	Per	Amt
	6 open fire cottage range with Cast Iron boiler, including the cost of fitting & complete	60	each	360
	<u>Total Estimate Rupees 360</u>			

J. H. Morant.

Captain R.E.
District Engineer

34-Engine Office
(Approved 1st Aug 1877)

125.60

7200

No. 238.

District Engineer's Office
(Potaomund 25th June 1877.)

From,

The District Engineer
Nileiris

To

The Commandant
Wellington.

Sir,

In reply to your endorsement on the letter from the Assistant Quarter Master General's Engineer Division (as per margin) herewith returned, I have the honor to inform you that the Rules of my

1. Endorsement No. 1527 dated 17th May 1877, on Mr. General's letter No. 100 of 9th May 1877.
2. Endorsement No. 1110 dated 22 June 1877, on Mr. General's letter No. 1166 dated 21st May 1877.

Department preclude my furnishing, in the first instance, plans and Estimates for works costing more than 500 Rupees.

2. I beg to forward an approximate Estimate amounting to Rupees 30,000 (thirty thousand), for providing four sets of Cook houses to the 4 Blocks of Married Quarters. The Cook Houses will be built according to the Standard Plan and will

4081 has pp 104 72

will be connected with the main buildings by covered passages to the upper and lower stories.

3. There appears to be the following objections to the above proposal. The Cookhouses will block up the already cramped space behind the married quarters. One side of each Cookhouse will be contiguous to the public Privy. The soldiers' meals will have to be carried some distance (especially by those living in the upper stories) along passages more or less exposed to the wind. The Cook Houses will interfere with the perfusion of air through the quarters in the lower story.

4. I beg to submit an alternative proposal, which is, to convert the two centre quarters of each block, one in the lower and one in the upper story, into Cook rooms and sculleries. There are 30 quarters in each block, 15 in the lower and 15 in the upper story, or 120 quarters in the

1. Block. By this arrangement the quarters will be reduced, by 8, to 112. The advantages of this proposal are, that the persons in the upper and lower stories will have to carry their meals but a very short distance, entirely under cover and protected from the wind. There will be no carrying of the meals up or down stairs. The cost will be only £12,000 (twelve thousand) or less than one half that of separate Cook Houses; and the arrangement will be in itself quite as good sanitarily.

I have &c.
Signed J. L. Z. Morant
District Engineer

True copy

J. L. Z. Morant
District Engineer

No. 309.

District Engineer's Office
Cotacamb 1st August 1877.

From,

The District Engineer
Nilgiris

To

The Chief Engineer
P. W. B.
Fort St. George

Sir,

With reference to the accompanying extract from Remarks by His Excellency the Commander-in-Chief endorsed by No. 1818 of the 25th ultimo from the Assistant Quarter Master General Mysore Division I have the honor to submit an Estimate amounting to Rupees 360 for furnishing 6 of the married quarters at Wellington with Cooking stoves.

2. I have selected the open fire cottage range with cast iron and boiler (page 18 of catalogue). But at the same time beg to forward a catalogue from Messrs. Yates Heywood & Company, from which any other range which may be considered more suitable can be

h. c. 8: h. c. 11, 10 Dec 72

be chosen.

3. The size of the Range
must not be wider than 3 feet
nor deeper than 1' 6"

4. I beg to append
copies of previous correspondence.

I have the honor to be
Sir,
Your most obedient servant,
J. P. Moran
Capt. U.S.A.
District Engineer

P. S. I particularly beg the favor
of the return of the catalogue, when
done with. - J. P. M.

Buildings and Roads

From

The District Engineer
To, Nilgiris

The Chief Engineer
P. W. D.
Fort St. George

No. 309

Dated 1st August 1877.

Enclosures - Three -

Cooking Stoves to
Married Quarters at
Wellington - Submit
with enclosures an
estimate for furnishing
- six - with explanations

G.O. 81 (Ld. 1/1) L.B. No. 72

Recd. 11
Rev. 26-8-77. Rb. 11
Car 15-8-77 R 18-8-77

Buildings & Roads
Nilgiris No. 1342 W
Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 8th November 1877.

Read the following :-

Letter from the District Engineer
Nilgiris } (Sd. No 309 d/1st Aug. 1877)

His Grace the Governor

in Council does not approve
of the use of English open
fire places with ovens and
boilers as proposed by the
District Engineer, Nilgiris
for the family quarters of
the Wellington Barracks.
Such fire places are neither
economical nor lasting and
are not suited for the consump-
tion of wood as fuel.

His Grace is of opinion
that the ordinary old fashioned
"hearth" with the usual central
depression or pit to contain
the ~~smouldering~~ ^{smouldering} ashes, fitted
with a few cross bars, to
carry say a couple of cooking
pots, will meet all that is
required.

To The District Engineer
Nilgiris

With Book of Samples returned
Sd. W. J. W. - 13-11-77

927

11/11/77

Ch 1526

Capt. of 1877 ~~Public~~
PUBLIC WORKS.

To *the W. C. Seligman*

Debit

Received

Recd.

Encl.

G. O. 8 Nov 1877, No. 1522 W

Nos. 72-73

Wellington Barracks
Suggest alternative pro-
posals for cooking stoves
for the family quarters
etc.

Encl. in 1526