M.R.O. 1—77,006—8-6-37.

(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. 1962. Press / Mis.

Dated 26-7- 1940.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 26th July 1871.

No. 444. Read the following letter from the Acting Superintending Engineer, 1st Division, to the Secretary to Government, Public Works Department, dated Dowlaishweram, 5th July 1871, No. 1,129 :—

I HAVE the honour to forward, herewith, copy of a report received from the Executive Engineer in charge of No. 1 Range, Godavery, on the boiler of the steamer *Little Nell*, which burst under a pressure of 45 lbs. steam from wear and tear.

1 Copy of report No. 113, dated 12th June 1871.
1 Plan of the boiler, will follow.

2. Captain Hasted, it will be observed, gives a detailed account of the circumstances under which this accident occurred to the steamer, and as she is the only one of the three steamers which ply about the river here fit to travel in, moreover as her being laid up will doubtless be felt as an inconvenience, I beg that a new boiler for this steamer, as per accompanying plan, may be ordered to be sent out as early as possible.

3. In consequence of the mishap to the *Little Nell* above reported, we shall be obliged to retain the steamer *Pioneer*, which in paragraph 6 of G. O., No. 744, dated 13th March 1871, was directed to be transferred to the Kistna, if it can be made use of there, or housed until required, and I request permission for doing so until such time a new boiler for the *Little Nell* is supplied and she is again in working order.

P. S.—I regret to say the boiler of the *Pioneer* is almost worn out, and as it is of similar construction two boilers had better be ordered out at once.

From the Officer in charge of No. 1 Range, Godavery, to the Superintending Engineer, 1st Division, dated Dowlaishweram, 12th June 1871, No. 113.

I HAVE the honour to report that the boiler of the *Little Nell* burst on the 5th instant when crossing the river to Vizaswarum.

2. I have examined the boiler and the piece blown out which was from the bottom of the boiler below the ash-pit, and is about 3 inches square. It appears as if flakes of the iron plate had been displaced by the action of the boiling water, and the thickness of metal left was so small, apparently not more than $\frac{1}{16}$th inch, that the plate was unable to resist the pressure. Fortunately, no one was injured by the escape of the boiling water.

3. The boiler was tested by means of a hand force pump little more than a month ago, and I saw a pressure of 85 lbs. to the square inch brought on it by this means ; knowing, however, that the boiler was an old one, I gave strict orders that a pressure of 45 lbs. should never be exceeded, and I am informed that it burst with this pressure.

4. I believe the boiler was fairly worn out. This steamer has been in continual use for many years, and has frequently been employed in salt water. I understand that the original boiler supplied with the *Little Nell* burst some years ago, and that in the year 1862 she was fitted with a spare boiler which came out with the steamer, which boiler appears to have then been 5 years old, consequently it has now been in use for 9 years.

5. This steamer is much in request for conveying officers of the Civil Department and visitors to the Godavery across the river, and her being laid up will doubtless be felt as an inconvenience. The charges for her up-keep are lightened by her being used in this way, and, indeed,

she is the only steamer fit to travel in. Drawings of the boiler were supplied to your office some time ago, and I have the honour to request you will be good enough to apply for a new boiler for the steamer to be sent out as early as possible.

6. The hull and machinery of the steamer have lately been put into good order; as she is now laid up, I shall be obliged to ask permission to retain the *Pioneer* till the new boiler arrives, otherwise should any accident happen to the *Thistle* I shall be unable to send a boat across the river.

No. 445. ORDER THEREON, 26th July 1871, No. 1,962.

ACCOUNT, No. 39.

THE drawing of the boiler belonging to the steamer *Little Nell* will be returned to the Superintending Engineer in order to the scale on which it is drawn being supplied, and the dimensions of the boiler and of the boiler-room or stokehole being noted on the drawing. Another drawing should at the same time be furnished showing the exact position of each fitting attached to the boiler, and if a new uptake with damper is required the dimensions of these parts should be shown, and they should be included in the indent for two boilers.

2. The retention of the steamer *Pioneer* in the Godavery District is sanctioned.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting Superintending Engineer, 1st Division, with plan.

Exd. E. C. Shunker.

No. 113

No. 1 Pauze Office
Dowlaishweram
12th June 1871.

From.

The Officer in charge
No. 1 Pauze Godavery

To

The Superintending Engineer
1st Division.

Sir

I have the honor to report that the boiler of the Little Nell burst on the 5th instant when crossing the river to Vizaswaram

2 I have examined the boiler and the piece blown out which was from the bottom of the boiler below the ash pit and is about 3 inches square. It appears as if flakes of the iron plate had been displaced by the action of the boiling water, and the thickness of metal left was so small, apparently not more than ¼ inch, that the plate was unable to resist the pressure. Fortunately no one was injured by the escape of the boiling water.

I

3 The boiler was tested by means of a hand force pump a little more than a month ago, and I saw a pressure of 85 lbs to the square inch brought on it by this means: knowing however that the boiler was an old one, I gave strict orders that a pressure of 45 lbs should never be exceeded and I am informed that it bursts with this pressure.

4 I believe the boiler was fairly worn out. This Steamer has been in continual use for many years, and has frequently been employed in salt water. I understand that the original boiler supplied with the "Little Bell" burst some years ago and that in the year 1862 she was fitted with a spare boiler which came out with the Steamer which boiler appears to have then been 5 years old. consequently it has now been in use for 9 years.

5 This Steamer is much in request for conveying Officers of the Civil Department & visitors to the Godavery across the river and her being laid up will doubtless be felt as an inconvenience. The charges for her up-keep are lightened by her being used in this way and indeed She is the only Steamer fit to travel in. Drawings of the boiler were supplied to your Office some time ago, & I have the honor to request you will be good enough to apply for a new boiler for the Steamer to be sent out as early as possible.

6 The hull and Machinery of the Steamer have lately been put into good order. As she is now laid up, I shall be obliged to ask permission to retain the "Pioneer" till the new boiler arrives, otherwise should any accident happen to the "Thistle" I shall be unable to send a boat across the river.

I have &c &c

(signed) J. O. Hasted Captain R.E.
Executive Engineer Godavery

(True Copy)
Wm. F. Fisher
Major R.E.
Ag. Supdg. Engr. 1st Dn.

P.W. 329/71.

Enclosure in a letter
No 1129 dated 5 July
1871. from the Supdg.
Engineer 1st Div to the
Secretary to Government
P.W.D. Department
Madras.

SUPERINTENDING ENGINEER'S OFFICE, 1ST DIVISION
DOWLAISHWARUM, 5th July 1871.

No. 1129

From

Major J. P. Fischer R.E.
Acting Superintending Engineer
1st Division

To

Colonel J. Carpendale R.E.
Secretary to Government D. P. W.
MADRAS

SIR,

I have the honor to forward herewith Copy of a Report received from the Executive Engineer in charge No. 1 Range Godavery on the boiler of the Steamer "Little Nell" which burst under a pressure of 45 lbs steam from wear and tear.

2 Captain Hasted it will be observed gives a detailed account of the circumstances under which this accident occurred to the Steamer and as she is the only one of the three Steamers which ply about the River here, fit to travel in, moreover as her being laid up will doubtless be felt as an inconvenience I beg that a new boiler for this Steamer as per accompanying plan, may be ordered to be sent out as early as possible.

3 In consequence of the mishap to the "Little Nell" above reported we shall be

be obliged to retain the "Steamer Pioneer" which in para 6 of G.O No 744 dated 13th March 1871 was directed to be transferred to the Kistna, if it can be made use of there, or housed until required, and I request permission for doing so until such time a new boiler for the "Little Nell" is supplied and she is again in working order.

I have the honor to be
Sir,
Your most Obdt Servant

Wm Strachan Major RE
A.F. Irrig. Engineer 1st Dn

P.S. I regret to say the Boiler of the "Pioneer" is almost worn out and cracks in several directions two Boilers must either be ordered at once

No 1962. P.W.D.

Proceedings of the Madras Government

Read the following

From

The Supt Engineer
1st Div

} (H.Q. Do No 1129 of 5th July 1871)

The Drawing of
the boiler belonging to
the Steamer Little Nell
will be returned to the
Supt Engineer in order
to the scale on which
it is drawn being supplied,
and the dimensions of
the boiler and of the
boiler room or stokehole,
being noted on the draw-
ing. Another drawing
should

No 1962 dated 5th July 1871.
Forwarded to Supt Engineer 1st Division
for information.

To

The Secretary to Govt
Public Dept

Madras

Dated 5th July 1871
Received 11th do

No 1129
Dated 2nd July 1871
Forwarded a Report,

from the Executive Engineer
in Charge Ry / Range Godowns
on the boiler of the Steamer
"Little Nell" which burst
under a pressure of 45 lbs
steam from wear & tear and
suggesting that a new boiler may
be ordered to be sent out as
early as possible

No 1962-26 July 71

No 1962

Re 13 Rs 8 As 0 Pds 320

Rs 13-8-0 Pds 320

Rs 13-8-0 Pds 320

Cp. 329

Govt of Madras.

PUBLIC WORKS.

To The Sg Superintending Engr
1st Division

Dated

Recd.

G. O. 26 July 1871, No. 1962.

Nos. 4414 4416

Steamer "Little Nell". The

Drawing of the boiler be-
longing to the Steamer
"Little Nell" returned to the
Superintending Engr - for
further information.

Should at the same time
be furnished showing
the exact position of each
fitting attached to the
boiler and of a new
uptake with damper is
required the dimensions
of these parts should be
shown, and they should
be included in the Indents
for two boilers.

The retention of
the Steamer Pioneer in
the Godavery District
is sanctioned.

19/2

6 S Engr 1st Dft with the

Desp 27/7/71