

(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.	1536	Press
B.P. No.		Mis. _____
Dated	2-6-	1875-195-

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
2nd June 1875.*

No. 35. Read the following letter from Major C. H. LUARD, R.E., Officiating Under Secretary to the Government of India, Public Works Department, (Railway,) to Colonel G. W. WALKER, R.E., Secretary to the Government of Madras, Public Works Department, (Railway,) dated Simla, 15th May 1875, No. 1,226 R.:—

I AM directed to forward, for information, copy of papers, noted in the margin, from which it will be seen that the use of wood as fuel on the Scinde section of the Scinde, Punjab and Delhi Railway is stated to have been detrimental to the engines.

Extract paragraphs 2, 4, 5 and 6, of letter from the Consulting Engineer, Lahore, No. 460, dated 1st May 1875.

Extract from paragraph 2 of letter from do. do. No. 92, dated 25th January 1875.

2. I am to inquire whether, on the Railways under the control of the Government of Madras, the same effects were observed when wood fuel was used and how they were accounted for.

Extract from a letter from the Consulting Engineer to the Government of India for Guaranteed Railways, Lahore, to the Secretary to the Government of India, Public Works Department, No. 460, dated 1st May 1875.

Para. 2. Wood was abandoned as fuel on the 7th March 1875, as the deterioration of the locomotives on that section from the use of the wood as fuel was excessive. * * * *

4. It has never before been ascertained that the copper of the fire-boxes was so seriously and so quickly worn away by the pyrolignous acid contained in the fuel.

5. The crown plate is the part most seriously affected, and from its position it would appear that the damage is caused by vapour, and reference with specimens of copper and the fuel has already been made to the Chemical Analyser, Bombay, for opinion as to the remedies that might be applied to lessen the injurious action of the fumes.

6. The crown plates had worn to about $\frac{1}{16}$ th of an inch.

Extract from paragraph 2 of a letter from the Consulting Engineer to the Government of India for Guaranteed Railways, Lahore, to the Secretary to the Government of India, Public Works Department, No. 92, dated 25th January 1875.

Less cost of repairs to engines burning coal, particularly to the tubes and fire-box. This has only lately been brought to notice by Mr. Newnham in Scinde, and he assigns a very high place to it in the cost of repair of engines. According to his calculation the wear and tear of tubes is six times greater in wood-burning engines and wear and tear of fire-boxes twice as great.

No. 36. ORDER THEREON, 2nd June 1875, No. 1,536.

RAILWAY, No. 13.

COMMUNICATED to the Consulting Engineer for Railways for report after due inquiry.

(True Extract.)

Major, R.E.,
Offg. Joint Secretary to Government.

To the Consulting Engineer for Railways.

Exd. S. T. Austin.
Spare Copies

Extract from a letter from the Consig.
Engineer to the Government of India for
Guaranteed Railways Lahore, to the Secy.
to the Government of India (P.W. Department
N^o 460 dated 1st May 1875.

2. ^Wood was abandoned as fuel on the
7th March 1875 as the deterioration of the
Locomotives on that Section from the use of
wood as fuel was excessive. — x x x x x

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that the copper of the fire boxes was so serious-
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pyroligneous acid contained in the fuel.

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seriously affected and from its position it
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by vapour and reference with specimens of
copper and the fuel has already been made
to the Chemical Analyser Bombay for
opinion as to the remedies that might be
applied to lessen the injurious action of the
fumes.

6. The crown plates had worn to about
1/10th of an inch.

Extract from para: 2 of a letter from
the Consulting Engineer to the Government
of India for Guaranteed Railways, Lahore
to the Secy. to the Govt of India Public Works
Department No. 92 dated 25th January 1875.

Less cost of repairs to Engines burn-
ing coal particularly to the tubes and fire
box. This has only lately been brought to
notice by Mr. Newham in Sindh and
he assigns a very high place to it in the
cost of repair of Engines. According to his
calculation the wear and tear of tubes is
6 times greater in wood burning Engines
and wear and tear of fire boxes twice as
great.

2007

All communications
should be addressed to
the Secretary.

No. 1226 R.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

RAILWAY.

To

THE SECRETARY TO THE GOVERNMENT OF Madras
PUBLIC WORKS DEPARTMENT.

(Railway)
Similar to
FORT WILLIAM, 15th May 1875.

SIR,

I am directed to forward for
information copy of papers, noted in
the margin, from which it will be
seen that the use of wood as fuel
on the Secide Section of the Secide
Punjab and Delhi Railway is stated
to have been detrimental to the Engines.

2. I am to enquire whether on
the Railways under ^{of the Govt of Madras} their control, the
same effects were observed when
wood fuel was used and how they
were accounted for.

I have the honor to be

Yours most obed^t serv^t

W. D. D. Major R. E.
Offg. Under Secretary

Extract paras 2, 4, 5 & 6
of letter from the Comdg.
Eng. Lahore, N^o 460 of 11th
May 1875. -
Extract from para 2 of
letter from D^o of 25th June 1875.
N^o 92 of 25th June 1875.

3563

GOVT. OF 1875-76
PUBLIC WORKS.

The Buckingham

11
Recd.

2 June

10-35-36

We of wood as fuel on the
Hudson Railway. - Lett.
of the Government - State
enquiring whether the
have proved satisfactory
to the Engineer, communicating
to the Consulting Engineer
for report after due enquiry.

sc. 20-14-6-75

Anglo-Saxon

for

due enquiry.

Engineer for Enquiry for report after
communicated to the Consulting
Engineer 15-36 21-36 27-36

Mr. 1895. 21-36

22-36

Govt of India

date 15-36 21-36 27-36

Recd - 21-36

Regarding whether
the use of wood
as fuel on the Hudson
Railway has been
satisfactory or not
- should be the Engineer

18-36 21-36 27-36

18-36 21-36 27-36