

- (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.	503	Press
B.P. No.		Mis.
Dated	20-2	C875 195

Not to be folded or roughly handled



16 50 12

Extract from a Memo. by General
 Strachey dated 9th December 1874.

The following papers in
 the Proceedings of the Institute
 of Civil Engineers refer to the
 subjects named by the Madras
 Government.

- Volume 23. Santiago & Valparaiso
 Railway Lloyd.
- " — 24. Festering R.
 and Spruce in New Zealand
 Taylor
- " — 25. Light Railways in
 New Zealand & New South
 Wales.
- " — 26. Steep gradients
 Taylor
- " — 27. Gravitation R.
 Grope
- " — 28. San Paulo Rail & incline
 worked by fixed engines.
 Loe.
- " — 29. Regio Railway
 Pole.

These papers & the discussions on them
 contain a good deal of useful information
 on the cost both of construction and
 working.

I have not found any account of the Portuguese single Rail line, but as it is constructed on Mr. Addis' own system of a single Rail line, he will be quite the best person to supply all required information about it.

Although he was not asked to do so I may give my opinion that Mr. Addis' estimate of the cost of putting down a single line of Rail & supplying it with rolling stock such as he proposes is quite inadequate. His rail of 20 lbs per yard supported on sleepers 3 feet apart would be wholly insufficient to carry the engine with $4\frac{1}{2}$ tons on each driving wheel, while such an engine would be insufficient to pull up the proposed load - and the road is no doubt quite incapable

25 3
of giving a safe passage to such loads without reconstruction of the Bridges.

(1^a) R. K. K. K.
9/12/74.

27/11/74

2-12-2007

27/12/5.
No. 14
Extract from Memo: by Major
General Strachey, Dated
9th Decr 1874.

Referred to in Railway Letter to
Madras, No. 7, dated 28th Decr 1874.

Dec 17/75

S.O. No. 503. 20-2-75.

Railway
No. 7

India Office, London.
23 December, 1874.

My Lord,

In reply to your
Excellency's letter of the 30th
October last, No. 6, I transmit
herewith an extract from a
memorandum by Major
General Strachey, dated 9th
instant, stating that the
information on most of
the points referred to by
you, relative to stationary
and

Sir Excellency,
The Right Honorable,
The Governor in Council
Fort St George

and Locomotive Engines
designed for working traffic
over steep gradients, is to be
found in certain volumes,
of the reports of the Institution
of Civil Engineers, which he
specifies. Copies of those
reports, with the exception of
one which is out of print,
and which have been
obtained from the Institution,
are also sent for your
information.

I have the honor to be,
My Lord,

Your Lordship's most obedient
humble servant,

John Lubbock

P. W. 1875-Sept.
 No 1/3
 Am. of foot for February
 Railway
 23rd December 1874
 Recd 22 January 1875

The Letter to Fort George
 No 7.
 Encl: 7.

Transmitting
 papers containing in-
 formation relative to
 Stationary & Locomotive
 Engines designed for
 working traffic over
 steep gradients, also a
 Memo. by General
 Straker on the
 subject.

Qb. No. 503. 20-2-75.

With Order

Communicated with the Report alluded to and
 with copy of Colonel Straker's Memo. with Consulting Engr.
 - given with reference also letter recorded with R. O.
 No. 5090 of 20. October.

MD
 29/1

the Cong. Secy
 for Genl
 Wash D.C.

MD
 29/1

Recd 23-2-75

Amr

627-1-75-12-1-75

DRo. 13

Govt. of 1875 Madras.

PUBLIC WORKS.

To

Dated

Recd.

Encl. /

G. O. 26 July 1875, No. 503

Nos.

Stationary and Locomotive
Engines designed for working
traffic over steep gradients

Despatch from Secy of State
transmitting papers containing
information relative to

Also a Memo. by Genl.
Strauch on the subject
Comd. to the Comdant for
Pg. into certain papers.