

(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.

~~B.P. No.~~

440/441 Rly.

Press

Mis.

Dated

17. 2 - 1876.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
17th February 1876.*

No. 319. Read the following letter from Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 12th February 1876, No. 84:—

I HAVE the honor to submit, for the sanction of the Government of India, indents

	RS.	Nos. 231* and 232† on the Board of Directors of the Madras Railway, the approximate cost being Rupees 3,524.
* For two sets of boring apparatus for making borings in river beds on the North-west and South-west Lines...	3,024	

† For additional materials required for do. do. ...	500	
‡ No. 147, 11th February 1876, with enclosure.		

2. A letter‡ from the Agent and Manager, Madras Railway, giving explanation in regard to the necessity for the indents, is also forwarded.

3. The articles being urgently required, I have in anticipation of sanction authorized the transmission of the indents to England for compliance.

From R. B. ELWIN, Esq., Agent and Manager of the Madras Railway Company, to Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, dated Madras, 11th February 1876, No. 147.

I HAVE the honor to forward you herewith two indents* on the Board of Directors, one for two sets of boring apparatus, and the other for additional piping, &c., required for the same, and

* Nos. 231 and 232.

I request that you will be so good as to communicate authority for the transmission of the indents to England for compliance.

2. I also enclose for your information a copy of the Acting Chief Engineer's letter, No. 125, of the 9th instant, in which explanation is afforded as to the necessity for the boring tools now indented for.

From W. R. ROBINSON, Esq., Acting Chief Engineer, Madras Railway Company, to R. B. ELWIN, Esq., Agent and Manager of the Madras Railway Company, dated Madras, 9th February 1876, No. 125.

GOVERNMENT having called for plans and estimates for new bridges over nearly all our large rivers and for sections of the strata in their beds, it will be necessary to undertake large boring operations, and this work cannot be accomplished within a reasonable time with the tools now in my possession. I have therefore indented for two new sets of boring apparatus, together with certain supplementary portions, which, when received, will enable me to make more rapid progress. At our present rate, the work would take a couple of years to complete. As the borings will have to be frequently carried through beds of clay, kunkur and boulders, I have indented for heavier piping.

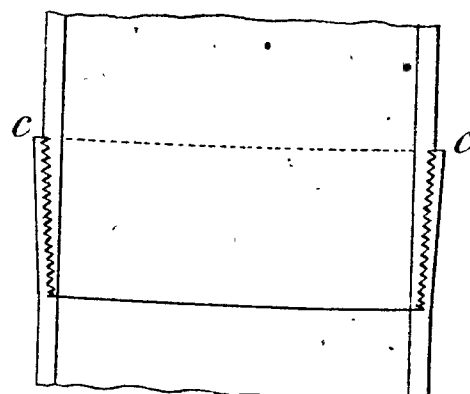
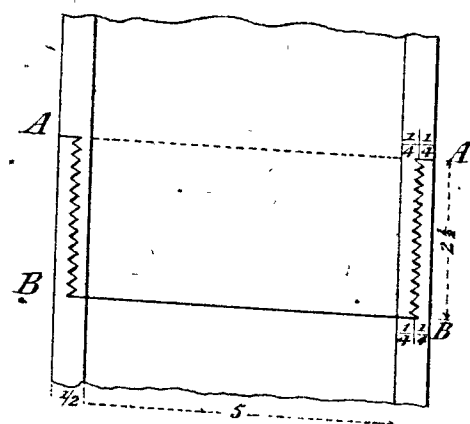
2. The piping already received ($\frac{1}{4}$ inch) is too light, and in many instances has given way at the joint. The receiving joint has been slightly bulged in cutting the thread (as at CC), and in consequence does not butt against the upper one. In the half inch piping indented for, the joints should be made to butt full against each other, as at AA and BB.

3. I have also indented for spare rod joints; rods can be welded on here.

4. The collars are required to save the upper receiving screw of the tubing from injury when working.

1/10/76
W. R. Robinson
Acting Chief Engineer

Proceedings of the Madras Government, Public Works Department,
17th February 1876.



5. Kindly ask the Board to have these tools sent out as soon as possible.

No. 320.

ORDER THEREON, 17th February 1876, No. 440.

RAILWAY, No. 43.

THE action of the Consulting Engineer is, under the circumstances, approved.

2. The indents will be submitted to the Government of India for sanction.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

No. 321.

(DOCKET No. 441, dated 17th February 1876.)

Copy of the above forwarded to the Government of India.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

Exd. E. C. Shunker.
Spare Copies

No. 147.

MADRAS RAILWAY.

AGENT AND MANAGER'S OFFICE

Madras, 11 February 1876

From

Robt. B. Lewis Esq.
Agent and Manager of the M.R.

To

Lieut Colonel J. H. M. Shaw Stewart R.E.
Consulting Engineer for Railways.

SIR,

I have the honour to forward you herewith two indents on the Board of Directors, one for two sets of Boring apparatus and the other for additional Piping &c. required for the same, and I request that you will be so good as to communicate authority for the transmission of the indents to England for completion.

I also enclose for your information a copy of the Acting Chief Engineer's letter No 125 of the 9th instant, in which explanation is afforded as to the necessity for the boring tools now indented for.

I have the honor to be
Yours faithfully,
Robt. B. Lewis
Agent & Manager

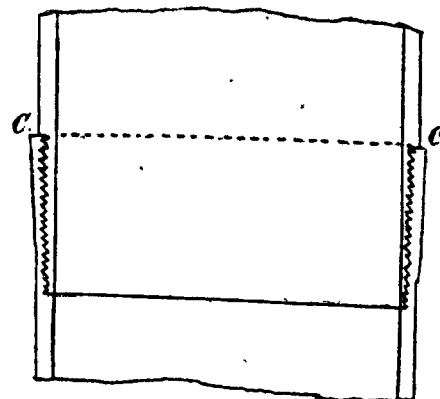
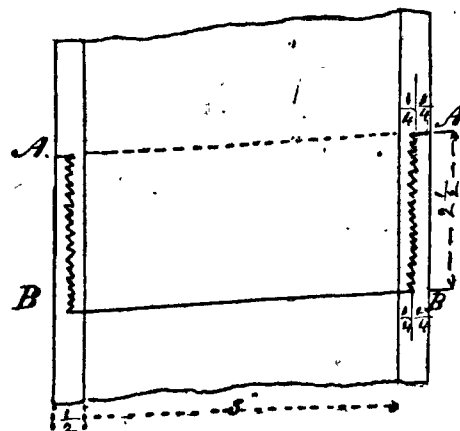
125.

Madras Railway Company
Chief Engineer's Office
Madras 9th Feb 1876.

This Agent and Manager,
Dear Sir,

Government having called for plans and estimates for new bridges over nearly all our large rivers, and for sections of the strata in their beds, it will be necessary to undertake large boring operations, and this work cannot be accomplished within a reasonable time with the tools now in my possession. I have therefore indented for two new sets of boring apparatus together with certain supplementary portions which when received will enable me to make more rapid progress. At our present rate, the work would take a couple of years to complete. As the borings will have to be frequently carried through beds of clay, sand, and boulders, I have indented for heavier piping.

The piping already received (1/4 inch) is too light, and in many instances has given way at the joint. The receiving joint has been slightly bulged in cutting the thread (as at C, C.)



MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer

for Railways.

Dated
Recd.

11th Feb 1876
12. 11.

No. 1147.

My forwarding for the
direction of Mr. T. W.
Parker to the Madras
at Ootacamund in 2 sets
of boring apparatus
and for additional piping
to be received for the
same. Mr. 1147/96.

No. 1147. Feb 10 1876 319

and in consequence do not butt against the upper one. In the half inch piping intended for the joints should be made to butt full against each other, as at A, A, and B, B.

3. I have also indicated for spare road joints. Roads can be welded on here.

4. The Collars are required to save the upper receiving screws of the tubing from injury when working.

5. I kindly ask the Board to have these tools sent out as soon as possible.

Yours faithfully
W. A. Robinson
Chf. Engr.

True Copy
W. A. Robinson
Agent & Engineer

Recd 17 Feb 1876

Mr 11/69/96

RAILWAY DEPARTMENT

CONSULTING ENGINEER'S OFFICE

Madras, 12th February 1876.

From

LIEUT. COLONEL J. H. M. SHAW-STEWART, R.E.,

Consulting Engineer for Railways,

To

MAJOR-GENERAL G. W. WALKER, R.E.,

Secretary to Government,

Public Works Department,

Fort Saint George.

SIR,

I have the honour to submit, for the sanction of the Government of India, indents ²³¹ and ²³² on the Board of Directors of the Madras Railway, the approximate cost being

* For two sets of bearing apparatus ²³¹ and ²³² on the Board of Directors of the Madras Railway, the approximate cost being ²³¹ Rs. 3,024.

* For additional materials required for do do - 2. Rs. 500.

* No. 147 - 11th February 1876. with enclosure.

A letter from the Agent and Manager Madras Railway, giving explanation in regard to the necessity for the indents, is also forwarded.

3. The

3. The articles being urgently required, I have in anticipation of sanction & authorized the transmission of the indents to England for compliance.

I have the honour to be
Sir

Yours most obedient servant

Manthorn Bientz H. R.

Cons. Engineer for Railways.

No. 1540 of 17 Feb. 1900
The action of the
Consulting Engineer is, under
the circumstances, approved

The Indents will be submitted to the Govt of India for sanction.

(H.E. No. 444 of 17.2.76)

Copy of the above
forwarded to the
Govt. of India.

Chitt.

ms. B. 3. 7674
write indent in duplicate
6.

recd 6-3-76

C. E. for Rys 121

Ex. Ry. Act. 7

84
No. 2
E. X.

Dated 13th February 1872
Recd. 14th February 1872

The Secretary to Government,
P. W. Department,
Fort Saint George.

From
The Consulting Engineer
for Railways

RAILWAY DEPARTMENT

8. W. 9876 Baker.

Salutemur per
 the counsel of the
 Spirit of God, & submit
 on the Word of God
 of the Father of
 the Son, and
 the Holy Spirit
 in the Father
 Amen

Cir 14-2-76

1169

Govt. of Madras.

PUBLIC WORKS.

To Govt. of India
For
1876

Dated

Issued

Reca.

Encl.

G. O. 17. Feb 1876. No. 460/441

Nos. 319/321

Requesting sanction to two
instruments for borrowing materials
required for the Madras
Railway.

Borrowing materials for the
Madras Railway. - Action
taken by the Comptroller in
authorizing the transmission
of the Board of Directors the
instruments. Approved.
The same to be now submitted
for the sanction of the Govt. of
India.