

(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. 1064	Press ~~Mis~~
287-88	
Dated 22. 4	1870 .

Not to be folded or roughly handled

Govt. of 1870: 5th Dec.

PUBLIC WORKS.

THE CONSULTING ENGINEER

RAILWAYS

Per J. 3 22nd.

100

6 0 2 2 1/2 1870 7 104

APRIL

Nos 237 288

Sleepers (Railway).—The action of the Consulting Engineer as explained in the correspondence submitted by him on the subject of the renewal of sleepers on the Great Southern of India Railway is approved.

Railway Department Consulting Engineers' Office
No. 118.

From Major J. H. M. Shaw, Stewart R.E.
Consulting Engineer for Railways

To Colonel C. A. O. P. R.E.
Secretary to Government
Public Works Department
Fort St. George.

Sir,

In acknowledging the receipt of the order of Government dated the 14th instant, No. 758, I have the honour to observe that my correspondence with the Agent of the Great Southern of India Railway Company, relative to the renewals of sleepers on the eastern section of the line

line has been brought prominently
to the notice of the Secretary of State.
2 I am desirous that His
Excellency the Governor in Council
should also have an opportunity of
perusing the correspondence in question,
and I do myself the honour to request
that you will have the goodness to lay
before the Government the accompany-
ing letters, with which

I should not otherwise
have troubled you.

3 I trust it
that my proceedings
in the matter will
meet with approval.

From	Agent No. 3193	dated	15 November/69
To	do		
From	do	" 380	18 do
"	do	" 3201	17 do
To	do	" 3216	26 do
"	do	" 4011	1 st December/69
From	do	" 401	1 st do
"	do	" 3230	14 do
To	do	" 3232	14 do
"	do	" 415	7 do
"	do	" 418	10 do
From	do	" 3246	14 do
"	do	" 3288	15 do
To	do	" 28	20 January/70
			20 do

Madras
25 March
1870.

I have the honour to be,
Sir,
Your most obedient servant,
Major R.E.
Cons. Engr. for Railways.

with indent No 43

with, reversed indent No 43

J

Ms 1870 Dept
through of Govt for April
12/7
The Consulting Engineer
for Railways

To
The Secretary to Govt
P.W. Dept

(Dated 25th }
Rec'd 29 } Secy's Office

Hu 118.

Rs 15. (hundred)

Ms 1064-22 April 70.

Submitting copy
of correspondence passed
between this Office and
the Agent of the G-S-R
Ry, relative to the re-
newals of sleepers on the
eastern section of the line.

Ms 287

16th Dec 1870 Oa. 9. April

N^o 3193

Great Southern of India Railway
Agents Office
Negapatam November 15 1869

From,

The Agent
Great Southern of India Railway
The Consulting Engineer
for Railways
Madras

Sir,

Portions of the main line on
the eastern section have lately been
renewed. The wooden sleepers having
been replaced by the iron Pot-sleeper

Will you please inform me
if I am correct in charging to the capital
account, the difference in cost, between the
wooden road and the iron road, and in
crediting the Revenue account with the
estimated value of old material displaced

J

I have ~~Yca~~

/signed/ William. S. Betts
Agent

(True Copy)

Mastermont.
Cons. Eng^r for Railways

Railway Department

N^o: 380

From,

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

To,

W. S. Betts Esq^r.

Agent and Traffic Manager
Great Southern of India Railway
Negapatam

Sir,

In acknowledging your
letter dated the 15th instant, N^o: 3193,
I have the honour to request that you
will be so good as to state the
authority.

authority under which the portions of
the main line on the eastern section
to which you refer have been renewed
with iron sleepers.

2. I also beg to be in-
formed to what extent these renewals
have been carried out

I have &c

Madras
18th November
1869 } /signed/ J. H. M. Shaw Stewart Major R.E.

Cons. Eng^r for Railways

(True copy)

/signed/ J. H. M. Shaw Stewart Major R.E.

Cons. Eng^r for Railways

N: 3201

Great Southern of India Railway
Agent's Office
Negapatam November 17. 1869.

From, The Agent
Great Southern of India Railway
To, The Consulting Engineer
for Railways
Madras.

Sir,

I have the honour to request the
early sanction of Government to my appli-
cation to the Board of Directors for the articles
enumerated in the attached Indent N: 43

I have &c

/signed/ William S. Betts
Agent

(True copy)

/signed/ W. S. Betts
Cons. Eng^r for Railways

N: 43

**Great Southern of India Railway
Engineering Department
Indent on the Board of Directors for Articles required for the Great Southern of India Railway.**

Articles	Quantity	Value	Description of Articles in detail	Where the for what Articles purpose are to be required used	Remarks
Rails wrought Iron 21' long 80 lbs to the yard	N ^o 1000	14,859 6.	Same as supplied before		For Renewals
See Pat Sleepers	17,6000	2,40,166 10 8	Greaves Patent		
Gibs and Cotters	704 Boxes	9,207 .			
Iron bars	88,000	77,916 10 8			For stock
Platelayers shovels round nosed	200	190 10 .			For Renewals
Three Arrow points with chains complete	set . 5	1686 04 .	Same as supplied to the		
Total Reques		3,44,026 9 4.			

(For Renewal)

Nagapattam
17th November
1869

*(Signed) William S. Potts
Agent*

(True Copy)

*Wm. S. Potts
Cons. Eng^r for Railways*

N: 3216

Great Southern of India Railway
Agents Office
Negapatam, November 26 1869

From,

The Agent

Great Southern of India Railway

To, The Consulting Engineer
for Railways
Madras

Sir,

With reference to your N: 380 of the
18th Instant, I have the honour to attach
copy of authority under which the portions of
the main line on the eastern section have
been renewed with iron sleepers. The extent
to which the renewals have been carried out
is as follows, the 10, 33, 34, 35 and 36 miles
and about three quarters of a mile out of the
Negapatam station.

I have &c.

/signed/ William S. Betts

Agent

(True Copy)

(True copy)

Wm Stewart
Cons: Engineer for Railways

Railway Department

Consulting Engineer's Office

N^o 400

From,

Major J H M Shaw Stewart R E
Consulting Engineer for Railways

To,

W S Betts Esq^r
Agent and Traffic Manager
Great Southern of India Railway
Negapatam

Sir,

In acknowledging the
receipt of your letter N^o 3216, dated
the 26th ultimo, I have the honour
to observe that I cannot recognize
the quotations given by you from
the

the Board's letters as conveying adequate authority for the conversion of the wooden road on the eastern section of the line into an iron road. If the whole cost of the conversion were intended to fall on Revenue, I should raise no difficulty; but from your letter dated the 15th ultimo, N^o 3193, I gather that you contemplate sharing the cost in certain proportions between Capital and Revenue. No expenditure can be charged to the Capital account unless the work upon which it has been

N^o 101. 26 January 1867.

N^o 103. 26 February 1867.

been incurred shall have been sanctioned by the Madras Government.

2. From your letters under reference, and from the indent which accompanied your letter of the 17th ultimo, N^o 3201, I gather that you propose to relay the whole of the eastern section, between Negapatam and Trichinopoly, with iron sleepers; in which case I request that you will be so good as to submit for the approval of Government an estimate showing in full detail the probable cost of carrying

carrying out the measure. All items of expenditure, both in England and in India, should be given; and the shares which you propose to allot to Capital and Revenue respectively must be clearly stated. I request that the estimate may be accompanied by a full statement of the reasons which have led you to propose the measure: and the grounds for the proposed allocation of cost between Capital and Revenue should also be clearly given.

3

Until this estimate shall

be

be submitted, & the approval of Government accorded thereto, I request that no further renewals with iron sleepers may be undertaken.

I have &c.

Madras
7 December
1869

/signed/ J. H. M. Shaw Stewart Major R.E.
Consulting Engineer for Railways

(True Copy)

J. H. M. Shaw Stewart Major R.E.

Cons: Eng^r for Railways

Cons. Comm. Office

Railway Department

N^o 401

To

The Agent and Traffic Manager
Great Southern of India Railway
Madras

Sir,

In acknowledging the receipt of your letter dated the 17th ultimo, N^o 3201, I have the honour to observe that as the cost of the stones, &c, indented for is in excess of the power of the Madras Government to sanction, a reference to the Government of India will be necessary.

2 With reference however to my letter of this days date,

N^o

N^o 400, I shall not be able to
recommend the indent in question
for sanction until the estimate
showing the probable cost of
converting the wooden into an
iron road, with details showing
the proposed allocation thereof
between Capital and Revenue,
shall have been received.

Madras
1st December
1869
I have
signed J. H. Williams
Cons. Engr. for Railways
True copy

Major
Cons. Engr. for Railways

N^o 3230

Great Southern of India Railway
Agents Office
Negapatam December 4 1869.

From, The Agent
Great Southern of India Railway
To, The Consulting Engineer
for Railways
Madras

Sir,

I have the honour to explain
in reply to your letter N^o 400 of the 1st instant
that the subject of renewing the line on the
Eastern Section with iron sleepers was not
proposed by me; the Directors in communi-
cation with their Consulting Engineer
considered the question in England and
applied to the Secretary of State for India
for permission to send out iron material for
15 miles. This sanction was accorded and

I anticipated the Madras Government would have received an intimation to that effect from the India office. The supply of iron post sleepers now indented for is intended to be kept as stock from which material can be taken to replace damages in the 15 miles length of line above alluded to. I did not intend for the present to extend the length of iron road beyond these 15 miles.

With regard to the mode of allocating the cost of replacing the wooden road with iron sleepers I beg to refer you to the Secretary of State for India's letter N^o 17 Railway of 9th March 1864, to the Governor General of India, in Council; paragraph 12 of that letter says -

"In relaying rails, if the original rails
"have proved too light, and additional
"strength in weight of iron or steel be

required

27
"required, the capital account should bear the
"difference, between the cost of the new and
"improved rails, and that of replacing the
"old rails by rails of similar character, revenue
"being chargeable for relaying and all other
"expenses. The same principle should be
"applied to replacing by iron sleepers those
"of wood originally laid down"
and Paragraph 15 remarks

"These rules have been drawn up in
"communication with the Boards of the
"several Indian Railway Companies, and
"have received their acquiescence generally; and
"with such plain direction for their mutual
"guidance, the Government Consulting En-
"gineers and the agents of the Companies
"can seldom have any real occasion for
"difference on the points to which the rules
"relate."

J.

I trust you will deem this explanation
satisfactory, and that it will enable you
to remove the restriction contained in the
concluding sentence of your letter now
under reply.

I have &c.
/signed/ W. S. Betts
Agent
(True Copy)

McCutcheon
Cons. Eng. for Railways

21
Renewal of Permanent Way
Secretary's letter N^o 101 - 26th January 1867.

This subject having been brought under
the consideration of the Consulting Engineer,
W. Bruce recommends that renewals should be
effected with cast iron sleepers instead of wood,
and the Directors have determined to apply to
the Secretary of State for sanction to send out
a quantity for the purpose.

Secretary's letter N^o 103 - 26th February 1867

The Secretary of State has sanctioned an
order being given for 10,000 Shore Teak sleepers,
and the supply for purposes of renewal of Greave's
sleepers sufficient for 15 miles.

True Extract

/signed/ William S Betts
Agent
20 " 69

True Copy
/signed/ E. L. Smith
Clerk

True

(True copy)

Meintson
Cons. Eng. for Railways

N^o 3232

Li

Sir,

Great Southern & Western
Agents' Office
Nagasaki December 4 - 1869

The Consulting Engineer
for Railways
Madras

Referring to your letter
N^o 401 of the 1st instant, I trust
that the explanation given in my letter
N^o 3230 of this date will enable you
to send forward my Indent N^o 43.
I would remark that the last item
entered on the Indent is urgently
required.

I leave &c.
Signed / W. S. Betts
Agent

(True copy)

Meintson & Co
Cons. Eng. for Railways

Consulting Engineer's Office

Railway Department

N^o 415

From,

Major J H M Shaw Stewart R E
Consulting Engineer for Railways

To,

W S Betts Esq^r
Agent and Traffic Manager
Great Southern of India Railway
Negapatam

Sir,

In acknowledging your letter
of the 4th instant, N^o 3230, I have the
honour to state that I have no power to
authorise any Capital expenditure upon
the open line until the sanction, either
of this Government, or of the Government

of

of India, shall have been accorded.

2. I beg therefore to repeat my request that you will, as soon as possible, submit for the approval of Government an estimate showing in full detail the probable total cost of carrying out the renewals now contemplated. This estimate must include the outlay which I learn from your letter N^o 3215 dated the 26th ultimo has been already incurred in renewing $5\frac{3}{4}$ miles of the line. The estimate must, as I have already mentioned, include all items of expenditure, both in England and in India; and the shares which will fall respectively on Capital and Revenue must be distinctly stated.

3.

I regret to say that I

have

5
have no power to allow any further renewals with iron sleepers to be proceeded with until the estimate now called for shall have been sanctioned by Government.

4. I request that you will be so good as to let me know the dates upon which the renewals of the $5\frac{3}{4}$ miles alluded to by you were commenced and completed, and the expenditure which has been incurred up to date.

5 From your letter under reply I learn that the supply of iron sleepers entered in your indent N^o 43 "is intended to be kept as stock from which to replace damages in the 15 miles length of "line" for which material was sent by the

Board

Board, and that no extension beyond those 15 miles was contemplated. I request that you will favour me with the calculations by which the number of 176,000 iron sleepers was arrived at. On the Madras Railway experience shows that renewals to replace damages are required at the rate of 7.91 sleepers per mile per annum. At this rate the number of sleepers indented for by you would have been sufficient to maintain the 15 miles of line for nearly fifteen hundred years.

I have &c.

Madras
7th December
1869

(Signed) J. H. McShaw Stewart Major R.E.

Cons. Eng^r for Railways
(True Copy)

Major R.E.

Cons. Eng^r for Railways

Railway Department

No. 418

To

The Agent and Traffic Manager
Great Southern of India Railway
Negapatam

Sir,

In reply to your letter dated the 4th instant, No. 3232, I have the honour to refer you to my letter of the 7th instant, No. 415, and to state that, pending the receipt of the estimate therein called for, together with explanation as to the apparently excessive quantity of sleepers indented for, it is not my power to recommend your indent No. 43 for sanction.

2 With reference to your
remark that the last item
entered in that indent is un-
- gently required, I beg to
suggest the preparation of a
separate indent for that item.

Moadrao
10th December 1869
I have the
hon^r J. H. McIlhenny Stewart Major R.E.
Cons: Engr. for Railways
/New copy/

Major R.E.
Cons: Engr. for Railways

N^o 3246.

Great Southern of India Railway
Agents' Office
Negapatam December 14 - 1869

To

The Consulting Engineer
for Railways
Madras

Sir,

With reference to
remarks contained in your letter
N^o 418, dated the 10th instant, I
shall feel obliged if you will
cancel my Indent N^o 43 sent
forward with my N^o 3201 of
the 17th ultimo and substitute
the attached which excludes all
the items referred to in the
former excepting the two last
to which I beg you will obtain
the early sanction of
Government

Government.

I have signed / W S Betts
agent

(True copy)

Major R E
Comd Engrs for Railways

Great Southern of India Railway

No 43

Engineering Department

Indent on the Board of Directors for articles required for the L of S Railway

Articles	Quantity	Value	Description of articles in detail	Where the articles are to be used	For what purpose	Remarks
Platelayers shovels round nosed	200	190 10 "				For stock
Shovels throw points with chains complete	6	168 6 4 "				For renewals

Total Rs 358 6 14 "

Signed / W S Betts
agent

No 3288.

Great Southern of India Railway
Agents' Office
Madras 15 January 1870.

To

The Consulting Engineer
for Railways
Madras

Sir,

I have the honour to
state, in reply to your letter
No 415 of the 7th ultimo, that I
do not propose to ask for the
sanction of Government, to write
off any portion of the amount
which has been debited to Revenue
on account of the Iron Post sleepers
Renewals. Comparing the price
paid in England for the iron
post sleepers tie bars, and jibs
and cottars, sent out for Renewals
on

on the Eastern Section; with the
price paid for the creosoted
sleepers, chairs, and spikes origi-
nally laid down, I find that
the latter is the higher. The
charge for relaying and all
other expenses are chargeable to
the Revenue Account under para
12 of Sir Charles Wood's Despatch
No 17 of 9th March 1864

2 Under these circumstances
I presume you will have no
objection to the Renewals being
proceeded with.

I have &c.
(Signed) W. S. Betts
Agent
(True copy)

W. S. Betts
Consulting Engineer for Railways

Railway Department

Consulting Engineer's Office
No 28

From,

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

To,

W. S. Betts Esq.
Agent and Traffic Manager
Great Southern of India Railway
Negapatam.

Sir,

Under the explanation given
in your letter No 3288, dated 15th instant,
to the effect that the cost of renewing
with iron sleepers is lower than what
was paid for the creosoted timber sleepers
originally

Pub. Works. Dec. 22. April 1/70
L. 287.

originally laid down, and that therefore
the whole cost of the conversion of the
wooden road on the eastern section of
the Great Southern of India Railway
into an iron road will fall on Revenue, 14/12/70

I have the honour to cancel the restriction
contained in my letters marginally
noted, and to authorise your proceeding
with the work

N^o 400 dated 1st
December 1869
N^o 415 dated 7th
December 1869

I have the

Madras
20 January
1870
Signed J. H. M. Shaw Stewart Major R.E.
Cons. Eng^r for Railways
(True Copy)

Major R.E.

Cons. Eng^r for Railways

Cons. Eng^r for Railways

P.W. Department
No 1064

Proceedings of the Madras Government

Under date the 22 April/70

Read the following

From The Consulting
Eng^r for Railways
J.H. & A. 118 of 25 March 1870

The Government fully
approve of the action of
the Consulting Engineer,
as explained in the corres-
pondence which he has
made on the subject of
the removal of sleepers
on the Great Southern of
India Railway

J. H. & A.

J. H. & A.

W. B.

The Cons. Eng^r for Railways

Recd 28/4/70

Aue 1217
Govt. of 1870: 341815.

PUBLIC WORKS.

The Consulting Engrs.
for Railways

Dated

Recd

Permitted

G O 22 April 1870, No. 1634

No. 287-288

Sleepers (By) The action of the
Committee as explained in the con-
sideration ~~submitted~~ ^{by them} on the
subject of the renewal of sleepers on
the B. & O. R.R., approved.