Public Works (1898) Department.

RAILWAY BRANCH.

G.O., No. 1141. Ry

DATED 16th Septr 1898.

Very Urgent top post

136

[Despatch Abstract]

Sleeper supply

Reforming the Board of Revenue of the number of sleepers which are likely to be required annually for renewals on the Standard and Metre gauge Railways in the Madras Presidency, and requesting to be informed what steps it proposes to take for supplying them.

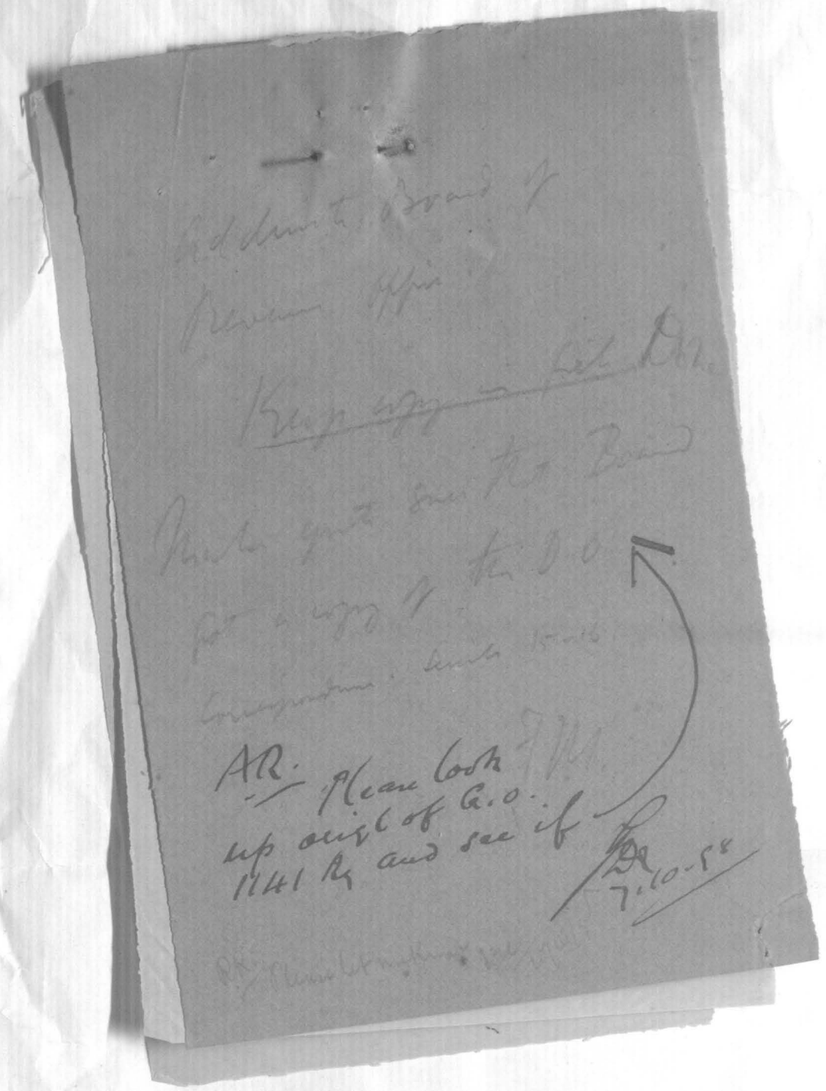
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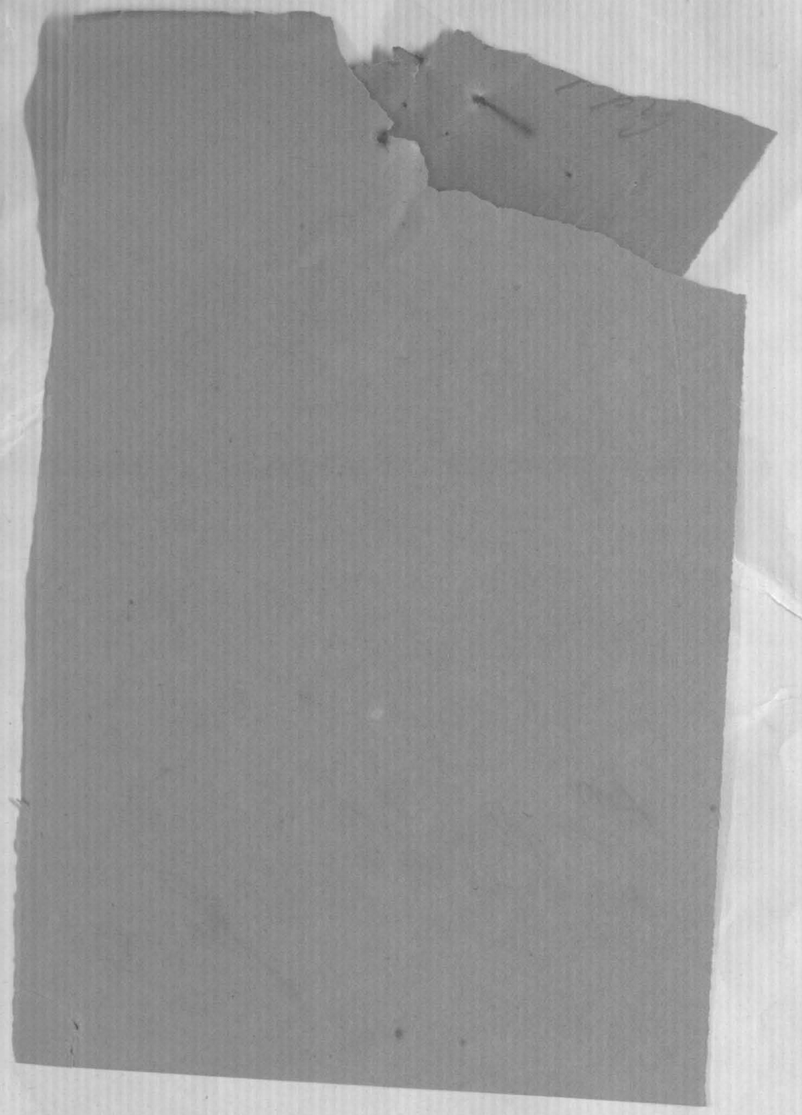
BACK PAPERS.

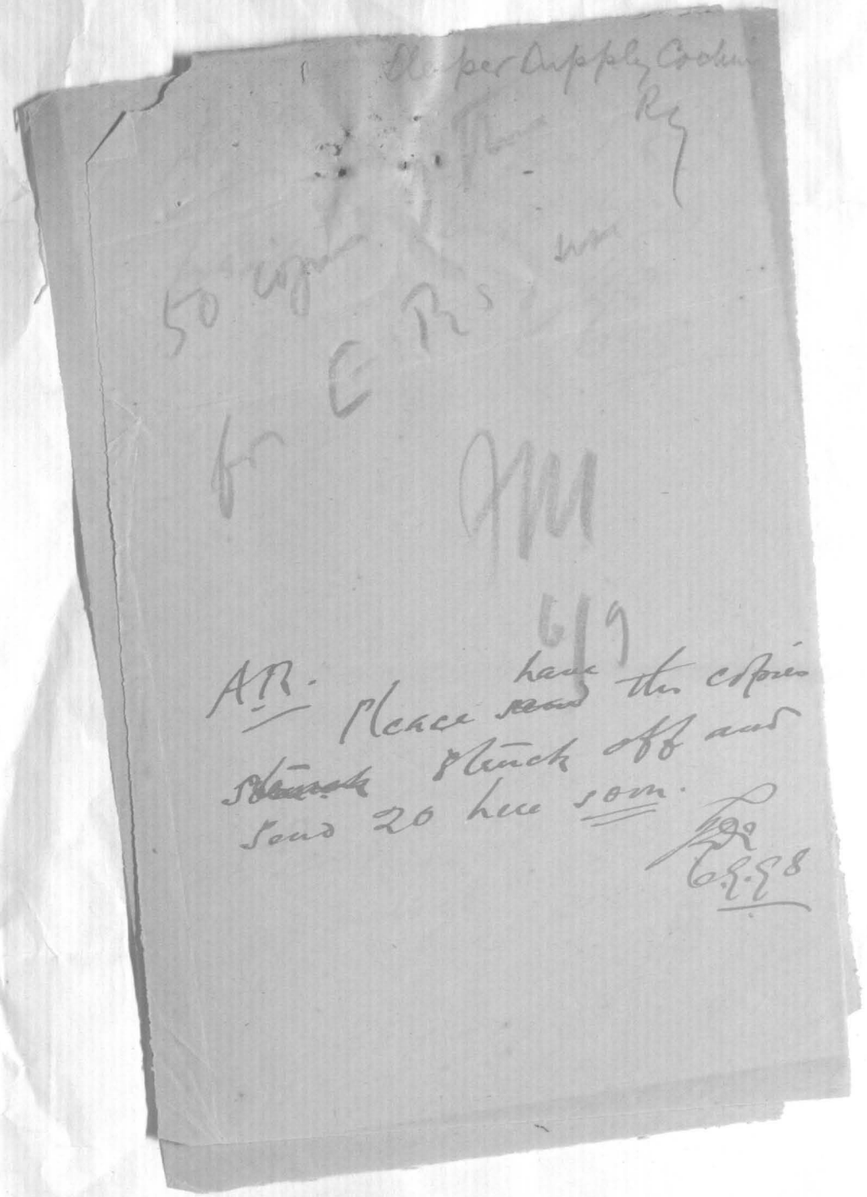
G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.






50 copies for E R's
A.R.
Please read the copies
Punch off and
send 20 here som.

AR.

Please send first boat very urgently.

6888

RAILWAY.

Government {1898} of Madras.

PUBLIC WORKS.

Recd. } 1898. *Enclosures*

Regd. *Spare copies*

G.O., No. 1141 Ry., 16th September 1898.

SEPTEMBER.

Sleeper Supply

Informing the Board of Revenue of the number of sleepers which are likely to be required annually for renewals on the standard and metre gauge railways in the Madras Presidency, and requesting it to report what steps it proposes to take for supplying them.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following papers:—

Endorsement of the Board of Revenue (Land Revenue), Reference No. 217, dated 20th May 1898, on G.O., No. 715 Ry., dated 12th May 1898.

Read—G.O., No. 715 Ry., dated 12th May 1898.

Forwarded to the Conservator of Forests, Southern Circle, for early attention.

2. The Board would be glad if it could be supplied with a similar estimate of the probable demand for renewals on the Madras, South Indian and East Coast Railways.

From—The Consulting Engineer for Railways, Madras.
To—The Agents, Madras and South Indian Railways.
Dated—Ootacamund, 27th May 1898, No. 46/O.

I shall be glad of a rough estimate of the probable number of timber sleepers which are usually required annually by your railway without reference to contemplated extensions. I make the enquiry in connection with a question now under reference, whether or not the Forest Department could arrange to manufacture railway sleepers. Will you also please tell me the usual prices you pay for them in depôt, and at which depôts. An early reply will oblige.

From—The Agent and Manager, Madras Railway Company.
To—The Consulting Engineer for Railways, Madras.
Dated—Madras, 6th June 1898, No. 10661/499.

In compliance with the request contained in your letter, No. 46/O., dated the 27th ultimo, I have the honour to give, below, a statement of wooden sleepers giving the desired information:—

STATEMENT of wooden sleepers showing probable number and size required annually with price.

Dimensions.	Average annual requirements. No.	Irul wood at Calicut. RS. A. P.	Irumbugam and Karimurdoo at Calicut. RS. A. P.	Teak at Arkonam. RS. A. P.
10′ × 10″ × 5″	2,024	4 2 0	5 3 0	..
12′ × 12″ × 7″	576	8 12 0	12 4 0	25 10 1
16′ × 12″ × 6″	622	9 10 6	13 12 0	29 4 8

From—The Agent, South Indian Railway.
To—The Consulting Engineer for Railways, Madras.
Dated—Trichinopoly, 17th August 1898, No. 770.

With reference to your letter, No. 46/O. of the 27th May 1898, which I regret has not been replied to earlier, I have the honour to inform you that the number of sleepers annually required by this railway may be taken as 30,000.

The average prices per 6′ 6″ × 9″ × 4½″ sleeper are—

	RS.	A.	P.
Pyngadu (Irul) from Kallai, near Calicut, delivered at *Erode* ...	3	4	0
Pyngadu from Burma, delivered on the wharf at *Negapatam* ...	3	1	0

We are now obtaining 15,000 Jarrah sleepers from West Australia at Rs. 3-8-0 per sleeper delivered over ships side at Negapatam, the landing charge being an additional anna per sleeper.

ORDER—No. 1141 Ry., dated 16th September 1898.

The Board of Revenue will be informed in reply to their reference No. 217, dated 20th May 1898, that the Madras Railway Company's estimate of probable annual consumption of wooden sleepers is equivalent to about 3,000 sleepers 10′ × 10″ × 5″. Also that the South Indian Railway Company's estimate is for about 30,000 metre gauge sleepers 6′ 6″ × 9″ × 4½″ annually. The 700 miles of East Coast Railway in this Presidency will probably, after a few years more, require 1,00,000 broad guage sleepers 10′ × 10″ × 5″ for annual renewals.

2. The prices now paid are approximately as follows:—

	RS.	A.	P.
Standard gauge, *Irul*, delivered at Calicut	4	2	0
,, ,, *Irumbugam*, ,, ...	5	3	0
,, ,, *Karimurdoo*, ,, ...	5	3	0
,, ,, *Ganjám Sal*, at Berhampore	4	8	0
Metre gauge, *Irul*, delivered at Erode	3	4	0
,, ,, *Pyngadu* from Burma at Negapatam	3	1	0
,, ,, *Jarrah* from Australia at ,, ...	3	9	0

3. The Board of Revenue will be furnished with a copy of the Consulting Engineer's inspection report of the East Coast Railway for the half-year ending 30th June 1898, with special reference to paragraph 7 thereof.

4. The number of sleepers given above as likely to be required for annual renewals, added to those mentioned in G.O., No. 715 Ry., dated the 12th May 1898, may be taken as roughly equivalent to an annual supply of—

Standard gauge sleepers	1,00,000
Metre ,, ,, ...	50,000

involving an expenditure by the railways of perhaps 6 lakhs of rupees per annum.

5. But the immediately pressing question is the source of supply for the Calicut-Cannanore, Shoranur-Cochin, Madura-Pamban, Tinnevelly-Quilon, and Mutupet-Avadyarkovil Railways, which may, perhaps, be roughly estimated at about 2,50,000 metre gauge sleepers annually for first construction only, during the next three or four years, in addition to those for annual renewals referred to in paragraph 4. The annual renewals of these last five lines will ultimately amount to, perhaps, 75,000 per annum.

6. The Board of Revenue will report as early as possible, for the information of Government, what steps it is proposed to take in the matter of the direct supply of sleepers to Railways in this Presidency.

(True Extract.)

FRANCIS J. E. SPRING,
Joint Secretary.

To the Agent and Manager, Madras Railway.
,, Agent, South Indian Railway.
,, Consulting Engineer for Railways.
,, Manager, East Coast Railway.
,, Resident in Travancore and Cochin (through the Political Department).
,, Board of Revenue (Land Revenue), with copy of the Inspection Report of the East Coast Railway for half-year ending 30th June 1898.

Exd. T. K. Narayana Aiyangar.

SLEEPER SUPPLY FOR COCHIN RAILWAY.

EXTRACT paragraphs from demi-official letter to the Resident, Travancore and Cochin, from FRANCIS J. E. SPRING, Esq., Consulting Engineer for Railways, dated 3rd August 1898.

* * * * *

2. I understand that His Highness the Rajah of Cochin has good forests of his own and a Forest Department, and I dare say that it would not be beyond the resources of the State to supply itself with $1\frac{1}{2}$ lakhs of metre gauge sleepers $6' \times 8'' \times 4\frac{1}{2}''$. In Assam, the Assam Railways and Trading Company used to supply its own 80 miles of railway with sleepers from its own forest concessions at from As. 14 to Rs. 1-2-0 each. I imagine that His Highness' Forest Department ought, with good arrangements, to supply His Highness' own railway with sleepers from his own forests at Rs. 2 or Rs. 2-8-0 each. On this supposition I have advised that Rs. 3 be entered in the estimate.

3. If His Highness' own Forest Department will arrange for the supply of sleepers, any difference between estimated rate and actual cost will be all for the benefit of the State treasury. I shall be much obliged if you can ascertain and let me know whatever you can about this, so that the estimate may be on the safe side.

Demi-official letter from—J. D. REES, Esq., Resident in Travancore and Cochin.
To—The Consulting Engineer for Railways, Madras.
Dated—16th August 1898.

Your demi-official of 3rd August 1898, I enclose an original letter from the Dewan, which is satisfactory. I have just travelled across the Cochin forests from east to west where they are broadest and have seen quantities of the trees you name.

ENCLOSURE.

From—The Dewan of Cochin.
To—The Resident in Travancore and Cochin.
Dated—15th August 1898.

I beg to acknowledge the receipt of the copy of Mr. Spring's demi-official of the 3rd instant, forwarded for my remarks with your endorsement dated the 7th idem. Most of the kinds of wood mentioned in the Government order as being suitable for sleepers can be had in the Cochin forests in sufficient quantity.

2. I find from my office records that, on an average, over 1,500 teak logs are annually brought down from the forests by the Sirkar, and the number of Maddi, Ironwood, and Vengai logs removed by private traders under permits aggregate over 5,000. Of the above, at least 1,000 teak logs and 3,000 other logs are found to be of superior quality, and will, I believe, be fit to be used as sleepers. As the average size of each such log is between 40 and 50 cubic feet and as the size of each sleeper appears from Mr. Spring's letter to be $1\frac{1}{2}$ cubic feet. 30 sleepers can be made out of each log. Our forests can thus supply, according to the average of the last ten years, 30,000 good teak sleepers, and 90,000 Maddi and Ironwood sleepers per annum without difficulty.

3. The average price realized by the Sirkar for its best teak is Rs. 15 per candy (a candy being equal to 12·9 cubic feet) and the average market price of the other woods is Rs. 9 per candy. The sawing charges for converting the logs into sleepers will amount to nearly Rs. 3 per candy. As eight sleepers can be made out of a candy, the price of teak and other sleepers will not exceed Rs. $2\frac{1}{4}$ and Rs. $1\frac{1}{2}$ each, respectively.

4. The above prices obtain at Ernakulam, Trichur and Shoranore; but at Kurumali, Chalakudi and Chewrrah, through all which places the railway has to pass, the logs can be had even cheaper.

5. You will therefore see that Mr. Spring's estimate of Rs. 3 per sleeper is quite on the safe side, and so far as my information at present goes, the sleepers can be had at much cheaper rates than that. I need hardly add that the demand for railway sleepers will help the Cochin Forest Department in obtaining much better terms for its timber than it has hitherto had, and I therefore view the suggestion of Mr. Spring, that the Forest department shall supply the necessary sleepers for the railway, as one calculated not only to reduce the probable cost of the railway, but also to improve our Forest revenue.

6. In conclusion, I must express to you my very sincere thanks for your having done me the favour of asking for my views in the matter.

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H.E. The Governor

RAILWAY.

Government {1898} of Madras.

PUBLIC WORKS.

Draft G.O. Just go for H.E.'s approval before issue. Also a copy of D.O. correspondence about sleepers in Cochin, a copy of which will be put up. unofficially, with each copy of the G.O.

J.K.S. 14/9/98

Recd. } 1898. Enclosures
Regd. } Spare copies

Read. A.S.H. 15.9.98

G.O., No. 1141 Ry., 16th September 1898.

SEPTEMBER.

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Sleeper Supply

Informing the Board of Revenue of the number of sleepers which are likely to be required annually for renewals on the standard and metre gauge railways in the Madras Presidency, and requesting it to report what steps it proposes to take for supplying them.

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(True Extract.)

Joint Secretary.

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„ Manager, East Coast Railway.

„ Board of Revenue (Land Revenue) with a copy of the Inspection Report of the East Coast Railway for the half year ending 30th June 1898.

Exd. T. K. Narayana Aiyangar.

~~Revenue~~ (1898) Department.

P. W. Dept.
Ry. Branch

CURRENT No. 647

SERIAL No. 11

From The Board of Revenue
Land Revenue

Order

Forest No. 217 Ref

Dated 20. 5. 98

Received 23d } do

Registered do }

Enclosures

Spare copies

SUBJECT

Forwarding to the Comr. L.C. for early attention, (G.O. P.W.D.) Ry Branch furnishing the Board with an estimate of the annual demand of the metre gauge sleepers required for the Calicut – Cannanore & Shoranur Cochin Railway.

AR

SLEEPER SUPPLY FOR COCHIN RAILWAY.

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BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Reference on Forest Register No. 1141 of 1898.

In replying the above should be quoted.

REVENUE BOARD OFFICE MADRAS.

(Land Revenue).

READ Government Order, Public Works Department, Railway Branch, No. 715 Railway, dated 12th May 1898.

Reference No. 217 dated 20.5.98

Forwarded to the Conservator of Forests Southern Circle for early attention.

2. The Board would be glad if it could be supplied with a similar estimate of the probable demand for renewals on the Madras, South Indian & East Coast Railways.

Lionel Dawson.

Ag. Secretary.

To The Conservator S.C.

The Secretary to Government P.W.D. Railway Branch.

No. 46/6 2P.

SERIAL No. 12

Madras, the 27th May 1898

From

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS,

Reminders. To A No. 46/10 dy 22/6/98

Dupd 22/6

2d Reminder CA No. 46/20 dy 25/7/98

Dupd 25/7/98

IIIrd Reminder A No. 46/30 dy 3/8/98

Dupd 3/8/98

To

THE AGENT AND MANAGER, M. RY.

" " S. I. RY.

~~" " H. H. THE N. G. S. RY.~~

~~" " AND CHIEF ENGR., N. RY.~~

~~" " S. M. RY.~~

~~" ENGR. IN-CHIEF, B. M. RY.~~

~~" MANAGER, E. C. RY.~~

Reply No. 10661/4699 } from AM.
dated 6-6-98 }

SIR,

I shall be glad of a rough estimate of the probable number of timber sleepers which are usually required annually by the {M.B./S.I.B.} without reference to contemplated extension. I make the enquiry with reference to a question now under reference whether or not the Forest Dept. could arrange to manufacture sinking sleepers. Will you also please tell me the usual prices you pay for them in depot. and at which depots. An early reply will oblige

Yours &
Fldg
27/5

Despatched on 27/5/98

(No. II.)

No. 10661

499

MADRAS RAILWAY.

5,000—14-11-85.

SERIAL No. 13

AGENT AND MANAGER'S OFFICE,

MADRAS, 6th June 1898

2683
7.6.98

From

The *Agent and Manager.*
M. R. Loy

To

The *Consulting Engineer for Railways.*
Madras

CONSULTING ENGINEER FOR RAILWAYS MADRAS. RECEIVED 7 JUN 1898

SIR,

In compliance with the request contained in your letter No. 46/C. dated the 27th ultimo, I have the honor to enclose copy of a Statement of Wooden Sleepers giving the desired information

Cml. 7/6

Reply from Agent S. I. Ry not received.

I have the honor to be,

Sir,

Your Most Obedt Servant

(Encl 1)

Agent and Manager.

MADRAS RAILWAY.

From The Agent and Manager.

To The Consulting Engineer for Railways.

Dated

Recd. 188

No.

3

Fwd

4 S.P.

Clee Calicut for 1918/98

Statement of Wooden Sleepers showing probable number and size required annually with price

Dimensions.	Average Annual requirement.	Erootiwood delivered at Calicut.	Irumbugam and Karimurdoo delivered at Calicut.	Teak delivered at Arkonam
10′ × 10″ × 5″	2024	Rs 4-2-0	Rs 5-3-0	~
12′ × 12″ × 7″	576	" 8-12-0	" 12-4-0	25-10-1
16′ × 12″ × 6″	622	" 9-10-6	" 13-12-0	29-4-8

10 7 8 8 8

Madras Railway
Chief Engineers office
Madras 5 June 1898.

(Sd) Henry C West
Chief Engineer

/True copy/

Agent & Manager.

1 2683 8

Ans 499 6.6.98

MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer
for Railways.

Dated

Read.

No.

No. 770

South Indian Railway Co., Ld.,

AGENT'S OFFICE,

TRICHINOPOLY, 17th August 1898.

From

The Offg AGENT,
SOUTH INDIAN RAILWAY,

To

The CONSULTING ENGINEER FOR RAILWAYS,

~~MADRAS.~~
Ootacamund.

Sir,

With reference to your letter No. 460 of the 27th May 1898, which I regret has not been replied to earlier, I have the honor to inform you that the number of Sleepers annually required by this Railway may be taken as thirty thousand.

The average prices per Sleeper are:—

Pyngadu (Irul) from Kallai, near Calicut,
delivered at Erode Rs 3-4-0

Pyngadu from Burma delivered on the
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the dimensions being 6'-6"x 0'-9"x 0'-4½".

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for Offg Agent

Noted.

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From
THE AGENT,
South Indian Railway,
Trichinopoly.

To
THE CONSULTING ENGINEER FOR
RAILWAYS,
Madras.

Dated
Received } 189

No.

ENCLOSURE.

6 P

P.J.E. Spring Esq

Extract paras from demi-official letter from the Consulting Engi-
-neer for Railways, to the Resident in Travancore and Cochin, dated 3rd August 1898.

X X X X X X X

2. I understand that H. H. the Rajah has good forests of his own, and a forest Department, and I daresay it would not be beyond the recources of the State to supply itself with 1½ lakhs of metre sleepers 6 ft.×8"×4½". In Assam the Assam Railways and Trading Company used to supply its own 80 miles of Railway with sleepers from its own forest concessions at from 14 annas to Rs. 1 - 2 as. each. I imagine that H. H's. Forest Department ought, with good arrangements, to supply H. H's. own Railway with sleepers from his own forests at Rs. 2/- or Rs. 2-8-0 each. On this supposition I have advised them to enter Rs. 3/- in the estimate.

3. If H. H's. own Forest Department will arrange for the supply of sleepers, any difference between estimated rate and actual cost will be all for the benefit of the State Treasury. I shall be much obliged if you can ascertain and let me know whatever you can about this, so that the estimate may be on the safe side.

D.O Resident in Travancore and Cochin

Copy of letter from J. D. Rees Esqr., dated 16th August 1898.

Your D. O. of 3rd August 1898, I enclose an original letter from the Dewan, which is satisfactory. I have just travelled across the Cochin forests from East to West where they are broadest and have seen quantities

of the trees you name.

Copy of letter from the Dewan of Cochin, to the Resident in Travaneore and Cochin, dated the 15th August 1893.

I beg to acknowledge the receipt of the copy of Mr. Spring's D. O. of the 3rd instant, forwarded for my remarks with your endorsement dated the 7th idem. Most of the kinds of wood mentioned in the G. O. as being suitable for sleepers can be had in the Cochin Forests in sufficient quantity.

2. I find from my office records that, on an average, over 1,500 teak logs are annually brought down from the Forests by the Sirkar, and the number of Maddi, Ironwood, and Vengai logs removed by private traders under permits aggregate over 5,000. Of the above, at least 1,000 teak logs and 3,000 other logs are found to be of superior quality, and will, I believe, be fit to be used as sleepers. As the average size of each such log is between 40 and 50 cft, and as the size of each sleeper appears from Mr. Spring's letter to be 1½ cft, 30 sleepers can be made out of each log. Our Forests can thus supply, according to the average of the last 10 years, 30,000 good teak sleepers, and 90,000 Maddi and Ironwood sleepers per annum without difficulty.

3. The average price realized by the Sirkar for its best teak is Rs. 15 per candy (a candy being equal to 12.9 cft.) and the average market price of the other woods is Rs. 9 per candy. The sawing charges for converting the logs into sleepers will amount to nearly Rs. 3 per candy. As 8 sleepers can be made out of a candy, the price of teak and other sleepers will not exceed Rs. 2¼ and Rs. 1½ each respectively.

4. The above prices obtain at Ernakulam, Trichur, and Shoranore, but at Kurumali, Chalakudi, and Chowrrah, through all which places the railway has to pass, the logs can be had even cheaper.

5. You will therefore see that Mr. Spring's estimate of Rs. 3 per sleeper is quite on the safe side, and so far as my information at pre-sent goes, the sleepers can be had at much cheaper rates than that. I need hardly add that the demand for Railway sleepers will help the Cochin Forest Department in obtaining much better terms for its timber than it has hitherto had, and I therefore view the suggestion of Mr. Spring that the Forest Department shall supply the necessary sleepers for the railway as one calculated not only to reduce the probable cost of the railway, but also to improve our Forest Revenue.

6. In conclusion, I must express to you my very sincere thanks for your having done me the favour of asking for my views in the matter.

7. The Madras Government order which accompanied your reference will be returned to you as soon as His Highness has perused the same.

Form No. 1.

PUBLIC WORKS DEPARTMENT,

RAILWAY BRANCH.

Papers to be read in Proceedings:—

Again G.O., dated 189 , No.

Again G.O., dated 189 , No.

Current No. 647 of 1898, dated 20-5-98, from Board of Rev. No. 217 Trans.

Cur { Con Engrs' " 46/0 " 1898, " 27-5-98, " "
Agent Tinnevelly R. 10661/297 " 1898, " 6-6-98, " Agent Tinnevelly R.
Agent S.I.Ry. 770 1898 " 17-8-98 " S.I.R.

D.O. from the President in Travancore & Cochin, with its enclosure from the Diwan of Cochin dated 1.

ORDER.

1

The Board of Revenue will be informed in reply to their Reference No. 217 dated 20-5-98, that the Tinnevelly R. Co's estimate of probable annual consumption of wooden sleepers is equivalent to about 3000 sleepers 10'×10"×5". Also that the S.I.R. Co. estimate is for about 30,000 metre gauge sleepers 6'6"×0·9"×0·9" annually. The 700 miles of S.C.R. in this Presidency will probably, after a few years more, require 100,000 broad gauge sleepers 10'×10"×5" for annual renewal.

2. The prices now paid are approximately as follows.

			Rs. A. 0
Standard gauge,	Teak, at Calicut		4-2-0
"	Irumbogam "	"	5-3-0
"	Karimendoo "	"	5-3-0
"	Sangam Sal, Bahraich,		4-8-0
Metre gauge	Teak, delivered at Erode,		3-4-0
"	Pyinkado from Burma at Negapatam		3-1-0
"	Jarrah, from Australia at Negapatam		3-9-0

3.- The Board of Revenue will be furnished with a copy of the letter read down from the Dewan of Cochin to the Resident in Travancore and Cochin. Also with a copy of the Cochin Govt's report regarding the S.C.R. for the half year ending 30-6-98 with special reference to para 7 thereof.

6 The Board of Revenue will report in early course for the information of Govt. what steps it is proposed to take in the matter of the supply of sleepers to Railways in the Presidency

4 The number of sleepers given above as likely to be required for annual renewals, added to those mentioned in G.O. Ry No. 715-R. dated the 12th May 98 amounts roughly equivalent to an annual supply of Standard gauge sleepers 100.000
Metre " " 50,000
including an expenditure of the Railways of Presidency Six lakhs of rupees per annum.

5 But the immediately pressing question is the source of supply for the Calicut Cannanore Shoranur Cochin, Madura Pamban, Tuticorin Erode and Mettupalayam Railways. which may perhaps be roughly estimated at about 250.000 metre gauge sleepers annually for first construction only, during the next three years in addition to those for annual renewals referred to in para 4. The annual renewals of these lines will ultimately amount to perhaps 75.000 per annum.

FWS
R. 20/8/98