Public Works (1907) Department.

RAILWAYS.

G.O., No. 869 Ry

DATED 23/5/ 1907.

[Despatch Abstract.]

Passenger and goods stock of
Metre gauge railways

Fwg to the Railway Board three sets of
Drawings in regard to the Shoranur
Cochin. South Indian and Hyderabad
Godaveri Railways containing suggestion
for increasing the moving dimension
with a view to improving the accommodation
in the ———

Indexed

BACK PAPERS.

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

FURTHER PAPERS.

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

P. W. D. Railways

CURRENT FILE.

1

SECRETARY TO GOVT. OF MADRAS RYS.
RECEIVED
16 OCT 1906
C. No. 1391

1391

18/10

RAILWAY BOARD

No. R.S.92-4/3

Simla

Dated 10th October 1906.

To

The Secretary to the Government of Madras,
Public Works Department, Railway Branch.

Sir,

I am directed to inform you that in the opinion of the Railway Board it is desirable to increase certain maximum dimensions prescribed in the schedule of Dimensions Metre Gauge issued under Circular No. R.C. 406 dated 31st October 1905 in order that the form of the roofs of passenger stock may be improved in such manner as to permit of a better arrangement of sleeping berths and of more lofty carriages being constructed.

File M

2. The dimensions which it is desired to increase are

IV (5) Maximum height from rail level for unloaded vehicle at centre	11' 0"
IV (6) Maximum height from rail level for unloaded vehicle at sides	10" 2"
IV (10) Maximum height above rail level at centre of leading gauge for goods	11' 1"
IV (11) Maximum height above rail level at sides of loading gauge for goods	10' 3"

The above may be considered as moving dimensions, and the corresponding fixed dimensions on which they must depend are

I (20) Minimum height above rail level at centre of track for overbridges or overhead bracing out of stations	12' 6"
I (21) Minimum height above rail level at centre of telegraph wires crossing the line	20' 0"
I (22) Minimum height above rail level at centre of tunnel	19' 0"
II (15) Minimum height above rail level for a width of 5' 9" from centre of track of tie rods or underside of any continuous covering in passenger stations	18' 0"
II (16) Minimum height above rail level at centre of track for foot-bridges crossing the line in stations	14' 6"
III (13) Standard height above rail level to tie bars, girders etc.	14' 0"

2

III (13 a) Minimum height above rail level to tie bars, girders etc. 12' 6"

III (14) Minimum height of doorways if flat at top. 12' 6"

The above fixed dimensions being considered in connection with diagrams Nos. 1, 2, 3 attached to the schedule.

3. It is now desired that all Railway Administrations should be invited to make such proposals as they may deem suitable for increasing the moving dimensions in paragraph 2 above - but the proposals should be accompanied by diagrams showing the ~~maxix~~ profile which it is intended to suggest, and the corresponding profiles of the most unfavourable fixed structures existing on the system of railway worked by the Administrations.

Copy forwarded to Railway Administrations for information and attention to para 3 of the letter

I have the honour to be,

Sir,

Your most obedient servant,

J. S. Hadow

for Secfetary, Railway Board.

Documents accompanying

Nil.

To

Agent Madras Ry

Agent N. G. S. Ry

Agent S. I. Ry

R.

13-10-06

Form No. 52.

OFFICE OF CONSULTING ENGINEER FOR RAILWAYS,
Madras, the 23rd Octr 1906.

No. 2148. Mis.

2148/1 d/ 22-2-07.
To A. N.G.S. Ry and Adn

~~2148~~ 25/2/07

C/W 22/2
for ER

C/W 22.2.07.

MEMORANDUM.

Letter from the Railway Board No. R.S. 92-4/3, dated 10th October 1906.

Copy forwarded to Railway Administrations for information and attention to para 3 of the letter.

Euw 21/10/06

E. R.
Ew
18-10-06

To
Agt. Madras Ry
Agt. N.G.S. Ry
Agent S. I. Ry.

Despatched on 23/10/06

INDEXED
ON 24/10/06

Letter from the Railway Board No. R.S. 92-4/3 dated 10 October 1906

Copy forwarded to Railway Administration for information and attention to para 3 of letter

---

4

No. A.C.1031/25

10

South Indian Railway Co., Ld.
AGENT'S OFFICE,
Trichinopoly, 21st January 1907.

CONSULTING ENGINEER FOR RAILWAYS
Regtr. No 2(a) S.I.R.
22 JAN. 1907
DRAWING BRANCH.

CONSULTING ENGINEER FOR RAILWAYS
RECEIVED
22 JAN
C-No. 499
MADRAS.

6/22/1

From

The Agent,
SOUTH INDIAN RAILWAY,

To

The Consulting Engineer
for Railways,
Madras.

Sir,

p 3 a

With reference to your memorandum No.2148 of the 23rd October last I have the honor to forward a diagram showing the:-

(a) Sanctioned Dimensions

(b) Existing infringements

(c) Over-all moving dimensions proposed by this Administration

and in regard to the latter would point out that they cover all fittings such as door handles and ventilators but that the absolute overall dimensions (viz 12'-6") with open doors will not be exceeded.

I have the honor to be,
Sir,
Your most obedient servant,

M Le Mesurier
for Agent.

One Enclosure.

(A. & M. II.)

Enclosures ______

1,000—2-1907.

No. ~~0/2502~~ 415

CONSULTING ENGINEER FOR RAILWAYS MADRAS
Regr. No 298
12 MAR 1907
DRAWING BRANCH

CONSULTING ENGINEER FOR R.
RECEIVED
12 MAR
No. 15-3

Madras Railway Company,
AGENT & MANAGER'S OFFICE,
RAYAPURAM TERMINUS,
Madras, 9th March 1907.

11

12/3

From

The Agent and Manager,
Madras Railway Company.

To

The Consulting Engineer for Railways,
Madras.

SIR,

Suggestions to increase certain moving dimensions on Metre Gauge Lines.

3. c.f (N)

With reference to your Memorandum No.2148 dated the 23rd October 1906, I have the honor to forward herewith a diagram showing :-

(a) existing minimum fixed structures on Shoranur-Cochin railway

(b) proposed minimum fixed structure

(c) proposed maximum moving dimensions

With regard to the Nilgiri Railway, that line was constructed to special dimensions for which Mr. Weightman obtained the sanction of the Government of India, and increase in height of the vehicles is not permissible.

I have the honor to be,
Sir,
Your most obedient servant,

for Agent & Manager.

Enclo. one
C.C.

FROM
THE AGENT,
SOUTH INDIAN RAILWAY,
TRICHINOPOLY,
TO
THE CONSULTING ENGINEER
FOR RAILWAYS,
MADRAS.
Dated } 190 .
Received }
No.
ENCLOSURE.

6

Form No. 3.
1,000—27-7-05.

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,
Madras, the 14th March 1907.

No. 551. M

From
THE CONSULTING ENGINEER FOR RAILWAYS,
MADRAS,

To
THE AGENT AND MANAGER,
MADRAS RAILWAY.

Reminders.

Reply No. 0/2502/615
Dated 12.4.07

Enclosures.
One diagram

SIR,

I have the honour to return the diagram received with your letter no 0/2502/415, dated the 9/11th March 1907, & to request that you will kindly correct the proposed 14'-0" minimum fixed structure dimension which has been wrongly entered on the diagram. At the same time I beg to invite your attention to the Railway Board's orders. They invite suggestions for increasing the moving dimensions of metre gauge stock, the existing minimum fixed structure standard dimensions remaining as they are. Actual minimum structures have to be shown on the diagram as on most railways they will be less than standard & will govern the fixing of moving dimensions.

Cw
14/3/07

INDEXED.
ON 16/3/07

Desp.d
14/3/07

for ER
14-3-07

7

All communications should be addressed to the Secretary, Railway Board, by title NOT by name.

RAILWAY BOARD.

SECRETARY TO GOVT. OF MADRAS RYS.
RECEIVED
13 MAR 1907
C. 412

No. R.S. 92-4/7.

CALCUTTA.

Dated the 11th of March 1907.

To The Secretary to the Government of Madras,
Public Works Department, Railway Branch.

Sir,

p/c I am directed to invite your attention to Railway Board's No. R.S. 92-4/3 dated 10th October 1906, calling for proposals for improving the accommodation in the passenger and goods stock of metre gauge Railways, and to request the favor of an early reply thereto.

I have the honour to be,
Sir,
Your most obedient servant,

J H Hadow

for Secretary, Railway Board.

11/3.

D.A.-Nil.

G. I. C. P. O.—No. 1565 R.B.—3000—20-2-1907—J. A.

8

P. W. O. No. 499—6-6-06-10,000. Gen. 2. A.

H. H. the Nizam's Guaranteed State Railways Co., Ld.

Cir 13/3

Agent & Manager's Office,

No. 1757 Secunderabad [Deccan] 11th March 1907. 190 .

CONSULTING ENGINEER FOR RAILWAYS, MADRAS
RECEIVED
13 MAR 07
C. No. 1544

To The Consulting Engineer,

for Railways,

Madras.

Enclosure.

Sir,

I have the honor to acknowledge receipt of your Reminder of the 25th Ultimo on the subject to increase certain maximum dimensions prescribed in the schedule of dimensions Metre Gauge issued under Circular No.R.C. 416 dated 31st October 1905 and to state that the matter is still under correspondence with the Loco and Carriage Superintendent of this Railway.

M.

I have the honor to be, Sir,

Your Most Obedient Servant,

Agent and Manager.

P.C 14/3/07

9

Form No. 7
800—7-05.

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,

Madras, 20th March 1907.

No. 602 Rm

C

602 Rm d/ 16.4.07
to ~~[illegible]~~ AM NGSRy

for ER
DSPd 17.4.07

CPN
16.4.07

MEMORANDUM.

Letter from the Railway Board, No R.S. 92-4/7, dated 11th March 1907.

Copy forwarded to

✓ the AM, Madras Railway, with reference to the correspondence ending with this office letter

p 6 c.f No 551 M, dated 14th March 1907.

✓ the AM, N.G.S.Ry with reference to his

p 8 c.f letter No 1757, dated 11th March 1907.

Cro
20/3

for ER
19.3.07

Despatched on 20.3.07

METRE GAUGE

P. W. O. No. 499—6-6-06—10,000. 10 Gen. 2. A.

H. H. the Nizam's Guaranteed State Railways Co., Ld.

Agent & Manager's Office,

No. 180 Secunderabad [Deccan] 26th March 1907.

CONSULTING ENGINEER FOR RAILWAYS
RECEIVED
28 MAR 07
C. No. 1864
MADRAS.

To The Consulting Engineer

for Railways,

Madras.

Enclosure.

Sir,

I have the honor to acknowledge receipt of your Memorandum No. 602 R.O.W., of the 20th Instant, and to inform you that the matter is still under correspondence and a reply will be sent very shortly.

p9cf

I have the honor to be,

Sir,

Your most obedient Servant,

Agent and Manager.

D

(A. & M. II.)

Enclosures ______

No. 0/2502.

615

CONSULTING ENGINEER FOR RAILWAYS, MADRAS.
Regtr. No. 52 M
15 APR. 1907
DRAWING BR

11

1,000—2-1907.

Madras Railway Company,
AGENT & MANAGER'S OFFICE,
RAYAPURAM TERMINUS,

RECEIVED
15 APR 1907
No. 2214
MADRAS

Madras, 12th April 1907.

From

The Agent and Manager,
Madras Railway Company.

To

The Consulting Engineer for Railways,
Madras.

SIR,

SUGGESTIONS TO INCREASE CERTAIN MOVING DIMENSIONS ON METRE GAUGE LINES.

In compliance with the request contained in your letter No.551-M, dated the 14th March 1907, I have the honour to forward herewith diagram No. $\frac{5041/3\text{-}A}{1}$, in duplicate, giving the information required.

p.b.c.f.

I have the honour to be,
Sir,
Your most obedient Servant,

~~for~~ Agent and Manager.

Enclo: 2

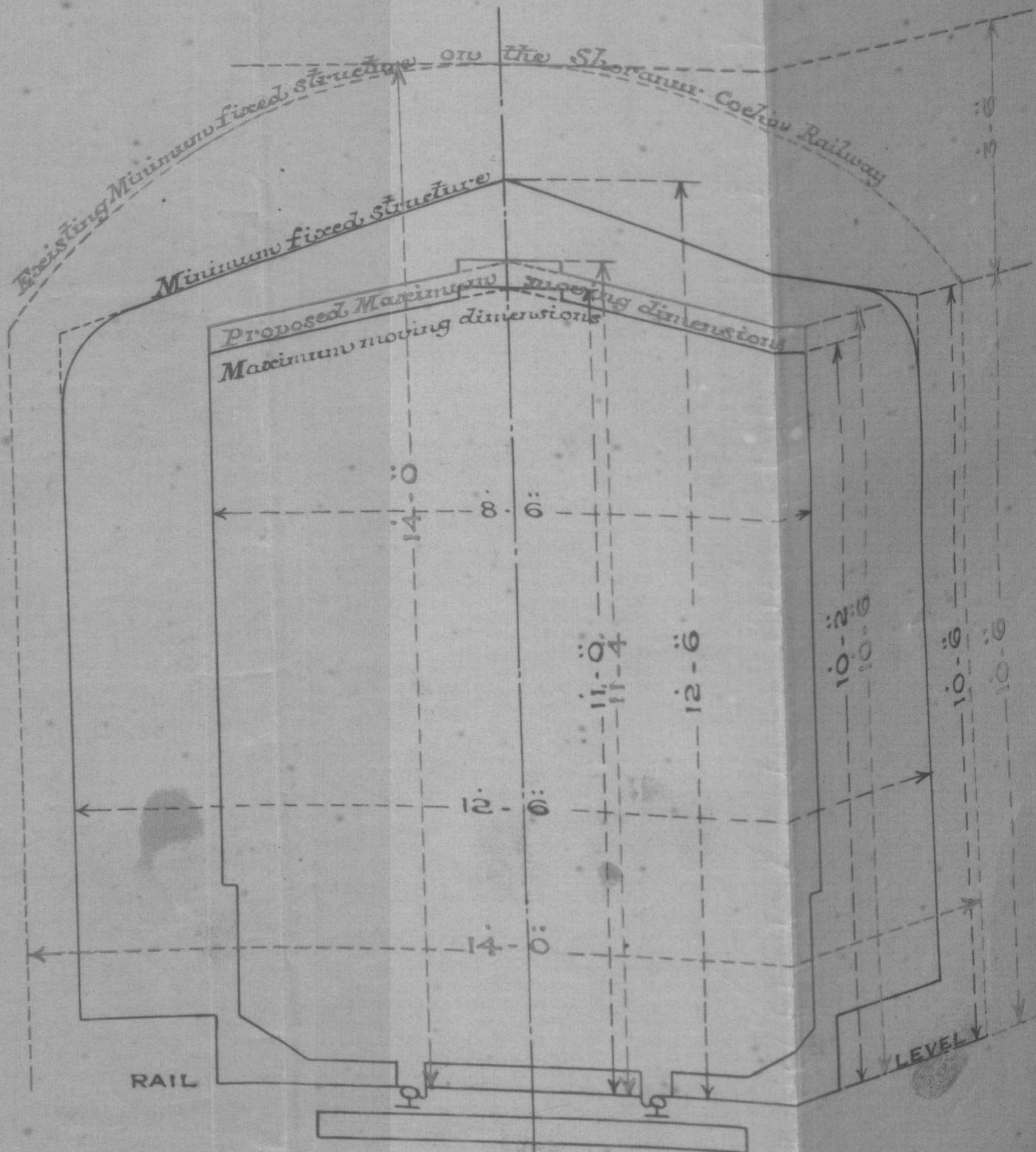
P.L.R.

No 5041/3A/1

Proposed increased maximum moving dimensions for Shoranur Cochin Railway (Metre Gauge)

Scale 1/2 inch = 1 Foot

Chie


Existing Minimum fixed structure on the Shoranur Cochin Railway
Minimum fixed structure
Proposed Maximum moving dimensions
Maximum moving dimensions
1·0
14·0
8·6
11·0
11·4
12·6
10·2
10·0
10·6
10·0
12·6
14·0
RAIL
LEVEL

5041
3A/1

1.

No. A.C.1031/25/12 12

South Indian Railway Co., Ld.
AGENT'S OFFICE,
Trichinopoly, 27th April 1907.

RECEIVED
29 APR 07
C. No. 2475
MADRAS.

From

The Agent,
SOUTH INDIAN RAILWAY,

To

The Consulting Engineer
for Railways,
Madras.

Sir,

p4 cf. My letter No. A.C.1031/25/10 of the 21st January 1907.

As we are about to begin building a large number of coaches on this Railway, I beg to ask that the final decision of the Railway Board may be conveyed to me, so that we may take advantage of the concessions proposed when building the new stock.

I have the honor to be
Sir,
Your most obedient Servant,

Agent.

13

F No. 1.
2,000—20-6-06.

OFFICE OF THE CONSULTING ENGINEER FOR RAILWAYS,

Madras, the 1st May 1907.

No. 854 M

From

THE CONSULTING ENGINEER FOR RAILWAYS,

Madras,

Reminders.

To

The A & M,

H. H. the N. G. S. Ry.

p. 10 cf

SIR,

With reference to your letter No. 180 of the 26th March 07 regarding the Railway Board's proposals to increase certain metre gauge maximum dimensions, I have the honour to enquire when I may expect your views on the subject & to state that ~~a~~ the reply to the Railway Board from this circle is being delayed for want of your opinion

Reply No. 286
Dated 6.5.07

Enclosures.

1.5.07
for C.E.
1.5.07

Despatched on 1/5/07

INDEXED
2/5/07

FROM
THE AGENT,
SOUTH INDIAN RAILWAY,
TRICHINOP
TO
THE CONSULTING ENGINEER
FOR RAILWAYS,
MADR
Dated 190
Received }
No.
ENCLOSURE.

14

Gen. 2 A.

P. W. O. No. 1,163 - 4-10-05—10,000.

H. H. the Nizam's Guaranteed State Railways Company, Limited.

Agent & Manager's Office,

Secunderabad 6th May 1907.

CONSULTING ENGINEER FOR RAILWAYS
RECEIVED
10 MAY 07
C. No. 2693
MADRAS.

No. 286

To The Consulting Engineer
for Railways,
MADRAS.

CONSULTING ENGINEER FOR RAILWAYS, MADRAS
Regtr. A 1258
6 MAY. 1907
DRAWING BRANCH

Enclosure. Three

Sir,

Referring to correspondence ending with your reminder No. 602/1 of 17th Ultimo, I enclose herewith a copy of the Loco: & Carr: Superintendent, N.G.S.Railway's letter No.R 3/3/3854 of 26th March last together with a copy of the Profile therein referred to -I also enclose a Profile of the fixed structures received from the Chief Engineer -

h9/8

h15/8

I have to request sanction to the Loco: & Carr: Superintendent's proposal which has my approval.

I have the honor to be,
Sir,
Your most obedient Servant,

W Pendlebury

Agent and Manager.

P W O No. 360-19-8-02-2,000.

H. H. the Nizam's Guaranteed State Railways Company, Ld.

Copy of letter No. R3/3 3854 **Dated** 26March **190** 07

From The Loco: Superintendt N .G .S .Railway Lallaguda

to the Agent and Manager, N. G. S. Railways, Co., Ld. Secunderabad.

Increasing certain maximum dimensions
prescribed in the schedule of
dimensions, Metre Gauge.

Your letter No: 1471 Dated 2nd , March 1907.

With reference to your above, I have the honour to enclose your profiles of Metre Gauge carriages in duplicate.

2. On my previous tracing I showed the dimensions which you referre to as being what the Railway Board required, but possibly too many dimensions were given, which made it difficult to see.

3. Profile "A" is what we have running at present. Profile "B" is w what I propose, and Profile "C" is what the Committee of Loco: Supdts. agreed as being possible for exceptional and special carriages where the line permits. Our line permits it, but, in my opinion, not not advisable t to be carried out on account of wind pressure and being top heavy.

4. The Consulting Engineer, on his visit to these works on the 13th Instant, inspected a carriage made to profile "A" and approved of the same, and I understand, considered it a better carriage than many Metre Gauge Carriages running.

Profile "B" is only one inch higher, but, in my opinion, Metre Gauge Stock should not be higher than this.

5. Please ask the Chief Engineer for a profile of fixed Structures.

Fixed Dimensions.	Standard.	S. I. R.	M. R.	N. G. S. R.
I (20) Minimum height above rail level at centre of track for overbridges or overhead bracing out of Stations.	12'-6"	12'-4"	14'-0"	14'-6"
I (21) Minimum height above rail level at centre of telegraph wires crossing the line.	20'-0"	not given	not given	not given
I (22) Minimum height above rail level at centre of tunnel.	19'-0"	17'-0"	"	"
II (15) Minimum height above rail level for a width of 5'-9" from centre of track of tie rods or underside of any continuous covering in passenger Stations.	18'-0"	14'-3"	"	"
II (16) Minimum height above rail level at centre of track for foot-bridges crossing the line in Stations.	14'-6"	13'-0"	"	"
III (13) Standard height above rail level to tie bars, giders &c.	14'-0"	~~not given~~	–	–
III (13a) Minimum height above rail level to tie bars, giders &c.	12'-6"	12'-4"	"	"
III (14) Minimum height of doorways if flat at top.	12'-6"	~~not given~~	–	–

Maximum Moving Dimensions.	Width over body	Width over doors.	Height at Centre.	Height at Eaves.	Remarks.
Existing orders.	8'-6"	12'-6"	11'-0"	10'-2"	
S. I. R. proposed	9'-0"	12'-6"	11'-3"	10'-2"	
Madras Railway "	8'-6"	12'-6"	11'-4"	10'-6"	
N. G. S. R. "	8'-6"	12'-6"	11'-1"	10'-3"	
" proposed for exceptional cases	8'-6"	12'-6"	11'-6"	10'-8"	

Form No. 3-R.
400—20-6-06.

17

Government of Madras.

From

THE SECRETARY TO THE GOVERNMENT OF MADRAS,
P. W. D., RAILWAYS,

To

THE SECRETARY OF THE RAILWAY BOARD.

No. 869 Ry, dated 23. May 07.

Sir,

With reference to ~~Railway Board's~~ your letter No. R S. 92-4/3 dated the 10th Oct-1906 calling for proposals for improving the passenger stock by increasing certain maximum moving dimensions for Metre gauge Rys, I am directed to forward herewith three sets of drawings giving the information asked for by the Railway Board in respect of the following Railways:—

p. 1 of

p. 11(a) of — Madras Railway (Shoranur-Cochin line) Drawing No. 5041/$\frac{3H}{1}$

p. 4(a) of — S. I. Ry - Drawing No. $\frac{1000}{1906}$.

p. 16. of — H H the N. G. S. Ry (Hyderabad Godavari Valley line) Drawing No. 383 & another

2. As regards the Nilgiri Ry the A&M reports that the line was constructed to special dimensions and an increase in ~~height of the vehicles~~ the moving dimensions is not permissible.

Despatched on 23/5/07

21/5/07

17.5.07
for R.

17/5/07

17/5

D.A
Fair drawings refd to

NOTES.

20.3.0

Public works D^t. (Railways.)

p1 cf

Receipt No 1391
From the Railway Board.
No R.S. 92-4/3. d/ 10.10.06
Subject :- Schedule of Dimensions, metre gauge.

171x

Forward to Mad. S I R and N. G. S. Rys for information and attention to para 3. 18/10/06

A draft Memorandum is submitted below with fair for signature
18-10-06.

20/10/06

---

p3 cf

Action taken in Memo No. 2148 Mis of 23/10/06 to Agents, Madras, S. Indian & N. G. S. Rys.

---

p4 cf

Receipt No. 499.
From the Agent, S. I. Ry
No. A.C. 1031/25/10 d/ 21.1.07.

Replies from the Madras and N. G. S. Rys are awaited.
24.1.07.

Wait
24/1/07

P.T.O

11.1.07

Form No. 7 R.
2,000—17-11-06. A.

PUBLIC WORKS DEPARTMENT, RAILWAYS.

psc

Receipt no 1531, dated 12.3.07
From - A.M. - no 0/2502/415, d/ 9.3.07

Return the diagram to A&M and ask him to kindly correct the proposed 14'-0" minimum fixed structure dimension which has been wrongly entered on the diagram. At the same time A&M's attention should be invited to the Ry. Boards' orders. The Ry. Board have invited suggestions for increasing the moving dimensions of metre gauge stock, the existing minimum fixed structure standard dimensions remaining as they are. Actual minimum structures have to be shown on the diagram as on most railways they will be less than standard and will govern the fixing of moving dimensions. The proposed maximum moving dimensions shown on the Shoranur Cochin Ry diagram would require revised minimum fixed structure dimensions as are also shown on the diagram. This goes beyond what the Ry. Board asked for and may possibly have been done under a misapprehension.

Cn
13/3

Draft subd
14.3.07

P.T.O

P. 6 cf. Action taken in letter no 551 m dated 14.3.07 to A. M.

---

p8 cf Receipt no 1544 d 13th march 1907
From the Agent and manager N. G. S. Rys.
No 1757 d 11th march 1907

---

p7 cf Receipt no 412 d 16th march 1907
From the Railway Board.
No R. S 92-4/7 d 11th march 1907

The Railway Board ask for an early reply & if approved copy of their letter may be sent to the Agents Madras & N. G. S. Ry with reference to pages 6 & 8 of the current file. The S. I. Ry's reply is page 4 c. f.

GD 19.3.07 Draft submd.

Yes Crw 20/3/07

---

p. 9 cf. Action taken in ~~letter~~ memo No. 602 Rw dated 20/3/07 to Am & NGSR.

---

p10. cf. Receipt No 1864
From the Agent & manager H. H. The Nizam's Ry.
No 180 d/ 26th march '07

The reply which the Agent promises to

Form No. 7 R. A.
2,00—17-11-06.

send "very shortly" may be awaited. Call Clerk to resubmit on the 15th April 1907 if not received by that date.

2.4.07

5.4.

Receipt No. 2214
From the Agent & Manager M Ry
No. $\frac{0/2502}{615}$ d/ 12th April 1907

The reply from the Agent NGS Ry has not yet been received. For orders if a reminder may be issued

17/4/07

W.N. 18/4/07

Issue on 20th

18.4.

Receipt No. 2475 d/ the 29th April 07.
From the Agent, S. I. Ry.
No. A.C. 1031/25/12 d/ 27.4.07.

---

p. 9 cf

The A & M, Nizam's Ry was reminded on the 17th April 07 & we have not yet received his reply. The Agent S I Ry asks for early orders on the subject.

30.4.07

Ask him again & say that the reply to the Board from this circle is being delayed

1.5.07

Form No. 7 R. A.
5 000—8-3-07.

Draft submitted

1.5.07 1/5/07

p13 cf. Action taken in letter No 854. [illegible] dated 1/5/07 to N.G.S.R

p14 cf. Receipt No 2693
From the Agent & Manager H. H. N. G. S. Ry.
No 286 of 6th May 1907

flag W. The N. G. S. R. have answered at last. I attach a table showing the maxima moving dimensions proposed by the different administrations, and also the minima of the fixed dimensions The Madras & N. G. S. Railways give no information under these heads except as to overbridges, so I presume they have no infringements. but should we ask them? A draft to Ry Board is put up for approval

E. R.

15.5.07.

The N G S Ry. says their line permits profile C. So far it may be taken that they have no infringements. Send the draft to Ry Board

21/5/07

Form No. 7 R. A.
5 000—8-3-07.

~~Do~~ Fair letter to the Ry Bd is subd.

Dal
22/5

Mme
Saw 23/5/07

Action taken in letter No. 869 Ry
dated 23rd May 1907 to the Ry Bd

p17 c f

Please see A's No. AC 1081/25-12 of 27-4-07
(p12 cf) and para 2 of M & S Ry's No 286 of 6-5-07
(p14 cf). For orders.

Dal
25/5

GR
27.5.07

We will communicate the Ry. Boards' orders to the Agents as soon as we receive them. No further action is required at present.

CW
27/5/07