M.R.O. 1—77,006—8-6-37.

(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. 1407-1408 Press
80-84 Mis.

Dated 7- 6- 1879.

Not to be folded or roughly handled

Read the following papers :—

No. 80. Endorsement of the Military Department, dated Fort St. George, 22nd May 1872.

From the Quarter Master General, to the Secretary to Government, Military Department, dated Fort St. George, 21st May 1872, No. 4,203.

WITH reference to Order of Government No. 744 of 15th March 1872, Public Works Department, I have the honour, by desire of His Excellency the Commander-in-Chief, to report that the Inspectors-General of the British and Indian Services and I have been in personal communication with the Railway authorities regarding the invalid carriage proposed for adoption on the Madras line of Railway, and that as the carriage used on the East Indian Railway is not suitable for this line, a modified plan to contain ten berths instead of twelve, with accommodation for latrines and attendants, has been approved of for adoption.

2. The plan will be duly submitted to Government by the Consulting Engineer for Railways, and as it is most desirable that both the carriages authorized in the Order of Government above quoted should be ready for use by the end of the year, I am instructed to request that Government will authorize their construction to be taken in hand immediately.

TRANSFERRED to the Public Works Department.

(Signed) A. C. SILVER, Colonel,
Officiating Secretary to Government.

No. 81. From the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 24th May 1872, No. 256.

AGREEABLY to the instructions conveyed to me in the Order of Government dated the 15th March 1872, No. 744, the plans of invalid carriages in use on the East Indian Railway, which accompanied the Order of Government, dated the 22nd ultimo, No. 1,037, were forwarded to the Agent of the Madras Railway with a request that an estimate of the cost might be prepared for submission to Government.

2. On the 16th instant a meeting attended by the officers named in the margin was held in the Quarter Master General's Office, at which the Locomotive Superintendent of the Madras Railway pointed out that the plan of invalid carriage in use on the East Indian Railway could not, without modification, be introduced on to the Madras Railway, inasmuch as the wheel-base shown on the plan was too great to allow of vehicles built in strict accordance with it being turned on the carriage turn-tables of the Madras Railway. Mr. Barton Wright showed that, under the circumstances, in order to preserve the full number (twelve) of berths provided in the plan, it would be necessary to curtail somewhat the space allotted to each man. The only other

Inspector-General, British Medical Service.
Quarter Master General of the Army.
Agent and Manager, Madras Railway Company.
Locomotive Superintendent, do.
Consulting Engineer for Railways.

available course was to reduce the number of berths from twelve to ten, and to arrange two of them at right angles to the direction of the train.

3. It was unanimously resolved to recommend the adoption of the latter alternative; and I have now the honour to submit a letter* from the Agent of the Madras Railway forwarding a drawing of an invalid carriage, the arrangement of which has been approved of by the Quarter Master General and by the Inspectors-General of the British and Indian Medical Services. An estimate showing the cost of constructing two such carriages, and amounting to Rupees 9,740, accompanied the drawing, and is now submitted for sanction.

* No. 330, dated 21st May 1872, with enclosure.

4. Although two invalid carriages are required, the Military authorities wish that one only should be built in the first instance, the second not to be put in hand until the first has been completed and inspected.

5. His Excellency the Governor in Council has been pleased to express his willingness to recommend to the Government of India that the cost of these carriages should be debited to Capital; and as the Military authorities are anxious that the first vehicle should be constructed without delay, so as to allow of the two being completed before the next season for sending invalids to England, I beg to suggest that early sanction be solicited.

G. O., No. 744, dated 15th March 1872.

6. The budget estimate for 1872-73 contains no provision to meet this outlay; but the estimated expenditure may, for the present, be made available from Item 28 in Schedule B., Engineering Department.

From the Agent and Manager of the Madras Railway Company, to the Consulting Engineer for Railways, dated Madras, 21st May 1872, No. 330.

With reference to the Orders of Government noted in the margin, I have the honour to forward herewith a copy of the Locomotive Superintendent's letter No. 188, dated the 18th instant, together with the drawing* and estimate† therein referred to of two invalid carriages.

No. 744, 15th March 1872.
„ 1,037, 22nd April 1872.

* No. C. 26.
† Rupees 9,740.

2. I will forward, as soon as received, the longitudinal and cross sections promised by Mr. Wright; but, as the Military authorities are anxious that one of the carriages should be put in hand at once, I lose no time in submitting the estimate for the sanction of Government, and I request that I may be favoured with instructions as to the allocation of the expenditure, no provision for it having, as you know, been made in the budget.

From the Locomotive Superintendent, to the Agent and Manager of the Madras Railway Company, dated Perambore Works, 18th May 1872, No. 188.

With reference to the Proceedings of Government, No. 744, dated 15th March 1872, and No. 1,037, dated 22nd April 1872, and to the meeting held at the Quarter Master General's Office on the 16th instant, to take into consideration the subject of the construction of the proposed invalid carriages referred to in the above-quoted Proceedings of the Madras Government, I beg to inform you that in accordance with the arrangement then made the Quarter Master General of the Army, accompanied by the Inspector-General of the British Medical Service, and the Inspector-General of the Indian Medical Department, visited these works this morning, and inspected the various descriptions of carriages, with the view of arriving at the most suitable arrangement for the details of the proposed vehicle.

Proceedings of the Madras Government, Public Works Department, 7th June 1872.

2. After considering the plans of this description of carriage awarded by the Government of India and the modified plan which I had prepared, it was decided to adopt the latter.

3. The Quarter Master General informs me that two such vehicles are required, but that he would wish one only to be built at first, the second to be constructed after an inspection of the first.

4. The Military authorities are anxious that this first carriage should be put in hand at once, so as to allow of both vehicles being completed before the next season for shipping invalids, and I therefore lose no time in sending you an estimate and tracing of plan (C. 26) of carriage for final approval and for the necessary Government sanction.

5. I will prepare and submit as soon as possible longitudinal and cross sections showing details, but the matter being pressing it is probable that the Government will be pleased to allow the work to be at once commenced without requiring in the meantime any detail beyond what is shown in the skeleton plan herewith sent.

6. The estimated cost of the two carriages is Rupees 9,740.

7. As you are no doubt aware there is no provision in the budget for this expenditure, but, being exceptional, I presume that the Government will direct us as to the mode of dealing therewith.

No. 82. Memorandum from the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 5th June 1872, No. 279.

Drawings showing the elevation and sections of the invalid carriages recommended for adoption on the Madras Railway, and approved of by the Quarter Master General, are submitted to Government with reference to my letter No. 256, dated 24th May 1872.

No. 83. Order thereon, 7th June 1872, No. 1,407.

RAILWAY, No. 11.

Ordered that the plan and estimate of Rupees 9,740 for the construction of two invalid carriages for use on the Madras Railway be forwarded for the sanction of the Government of India.

(Here enter No. 1,408, dated 7th June 1872.)

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,

Secretary to Government.

To the Consulting Engineer for Railways.
„ Military Department.

Exd. E. C. Shunker.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, *7th June* 1872.

No. 84.

No. 1,408.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA.
PUBLIC WORKS DEPARTMENT.

RAILWAY, No. 12.

SIR,—I am directed to submit, for the sanction of the Government of India, the accompanying plan and estimate of Rupees 9,740 for the construction of two carriages designed for the conveyance of sick troops over the Madras Railway.

2. It will be observed from the enclosed correspondence that certain alterations in the pattern plan transmitted with your letter No. 490 G.—R., dated 2nd April 1872, involving a reduction of the number of berths from twelve to ten, two being placed transversely, were found to be necessary in order to adapt the vehicles to the turn-tables in use on the Madras line. The modified plan has been approved by the Military authorities, who wish that one carriage may be first constructed for trial; and as it is of importance that both carriages should be ready by the end of the year for the transport of invalids who may then be expected to be forwarded for embarkation to England, I am to request that early sanction may be communicated to the estimate. Funds for the work will be provided from item 28 in Schedule B. of the Budget.

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

Colonel, R.E.,
Secretary to Government.

Exd E. C. Shunker.

Quarter Master General's Office,
Fort Saint George 21 May 1872.

No. 4203.

From
Colonel. N. Howlet
Quarter Master General

To
Colonel. A. C. Silver
Offg. Secretary to Government
Military Department.

Sir

With reference to Order of Government No. 744 of 15 March 1872, Public Works Department, I have the honor, by desire of His Excellency the Commander in Chief, to report that the Inspectors General of the British and Indian Services and I have been in personal communication with the Railway Authorities regarding the Invalid Carriage proposed for adoption on the Madras Line of Railway, and that as the Carriage used on the East India Railway is not suitable for this Line, a modified Plan to contain 10 Berths instead of 12 with accommodation for Latrines and Attendants

has

had been approved of for adoption.—

2. The plan will be duly submitted to Government by the Consulting Engineer for Railways and as it is most desirable that both the Carriages authorized in the Order of Government above quoted should be ready for use by the end of the year I am instructed to request that Government will authorize their construction to be taken in hand immediately.

I have the honor to be
Sir
Your Obed.t Servant
[illegible] Colonel
D. M. General.

No. 188.

Madras Railway Company
Loco. Superintendent's Office
Perambore Works 18th May 1872.

To

The Agent and Manager,

Dear Sir,

With reference to the Proceedings of Government No. 744 dated 15th March 1872, and No. 1037 dated 22d April 1872, and to the Meeting held at the Quarter Master General's Office on the 16th Instant to take into consideration the subject of the construction of the proposed Invalid Carriages referred to in the above-quoted Proceedings of the Madras Government, I beg to inform you that in accordance with the arrangement then made, the Quarter Master General of the Army accompanied by the Inspector General, British Medical Service, and the Inspector General, Indian Medical Department, visited these Works this morning and inspected the various descriptions of Carriages with the view of arriving at the most suitable arrangement for the details of the proposed Vehicle.

After considering the Plans of this description of carriage forwarded by the Government of India and the modified Plan which I had prepared, it was decided to adopt the latter.

The Quarter Master General informs me that two such vehicles are required, but that he would wish one only to be built at first; the second to be constructed after an inspection of the first

Agent and Manager

Rec. 15th March 72 No. 318-319
" 22d April " 329-330

Cum
P.W. 1872. Deptt.
Rec. of Govt. Pub. No. 578.
Trans. No. 2350.

From
The Dy. Mr. General
To The Offg. Secy. to Govt.
Mily. Deptt.

Dated 21st May
Received 21st May
Recd. 23rd
No. 4203.

Requests to authorize the construction immediately of 2 Invalid Carriages for the accommodation of Sick Troops proceeding by Rail.

To
The Public Works
Department.

Transferred.

Rec. 31st May 72 No. 80
Recd. 29 May 72 R. 3181

No. 1407-1408-7 Secy. 72

The Military Authorities are anxious that this first Carriage should be put in hand at once so as to allow of both Vehicles being completed before the next season for shipping Invalids, and I therefore lose no time in sending you an Estimate and Tracing of Plan* of Carriage for final approval and for the necessary Government sanction. *C. 26.

I will prepare and submit as soon as possible longitudinal and cross sections shewing details, but the matter being pressing it is probable that the Government will be pleased to allow the work to be at once commenced, without requiring in the meantime any detail beyond what is shown in the skeleton Plan herewith sent.

The estimated cost of the two Carriages is Rs. 9,740.0.0.

As you are no doubt aware there is no provision in the Budget for this expenditure, but, being exceptional, I presume that the Government will direct us as to the mode of dealing therewith.

Yours faithfully
H. W. Barton Wright
Loco. Superintendent.

(True Copy)

[signature]
Agent & Manager

Wm

No. 330

MADRAS RAILWAY. 13

AGENT AND MANAGER'S OFFICE.

Madras, 21st May 1872.

From

Robert B. Elwin Esqr.
Agent and Manager. M. R. Co.

To

Lt Col. J. H. M. Shaw Stewart, R.E.
Consulting Engineer for Railways.

Sir,

With reference to the Orders of Government noted in the margin, I have the honour to forward herewith a copy of the Locomotive Superintendent's letter No. 188 dated the 18th instant together with the Drawing and Estimate therein referred to of two Invalid Carriages.

744 - 15 March 1872.
037 - 22 April "

*C. 26.
Rs. 9,740.

2. I will forward as soon as received the longitudinal and cross sections promised by Mr. Wright, but as the Military Authorities are anxious that one of the Carriages should be put in hand at once I lose no time in submitting the Estimate for the sanction of Government, and I request that I may be favoured with instructions as to the allocation of the expenditure, no provision for it having as you know, been made in the Budget.

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

[signature]
Agent and Manager

MADRAS RAILWAY.

From

The Agent and Manager.

To

The Consulting Engineer

for Railways.

Dated 21st May 1872

Recd. 22.

No. 330.

Forwarding a Copy of the Legs Septic letter No 188 dated the 18 instant together with the Drawing & Estimate therein referred to of two Invalid Carriages

P. W. 2618/72.

Proc. 7th June 72 L. B. No 80.

Railway Depart

Cons: Engr's Office

No. 256

From,

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

To

Colonel G. W. Walker R.E.
Offg. Secretary to Government
Public Works Department
Fort Saint George

Sir,

Agreeably to the instructions conveyed to me in the order of Government dated the 15th March 1872, No. 744, the plans of invalid carriages in use on the East India Railway, which accompanied the order of Government dated the 22nd ultimo, No. 1037, were forwarded to the Agent of the Madras Railway with a request that an estimate of the cost might be

be prepared for submission to Government.

2. On the 16th instant a meeting attended by the Officers named in the margin, was held in the Quarter Master General's Office, at which the Locomotive Superintendent of the Madras Railway, pointed out that the plan of invalid carriage in use on the East Indian Railway could not, without modification, be introduced on to the Madras Railway, inasmuch as the wheel-base shown on the plan was too great to allow of vehicles built in strict accordance with it being turned on the carriage turn-tables of the Madras Railway

- Inspector General of British Medical Service.
- Quarter Master General of the Army.
- Agent and Manager Madras Railway &c.
- Locomotive Superintendent — Do —
- Executive Engineer for Railways.

Railway. Mr. Barlow therefore showed that, under the circumstances, in order to preserve the full number (12) of berths provided in the plan, it would be necessary to curtail somewhat the space allotted to each man. The only other available course was to reduce the number of berths from twelve to ten, and to arrange two of them at right angles to the direction of the others.

3. It was unanimously Resolved to recommend the adoption of the latter alternative, and I have now the honour to submit a letter from the Agent of the Madras Railway, forwarding a drawing of an invalid carriage the arrangement of which has been

No. 930 of 21st May 1852. with enclosure.

been approved of by the Quarter Master General, and by the Inspector General of the British and Indian Medical Services. An estimate, showing the cost of constructing two such carriages, and amounting to Rs: 9740, accompanied the drawing, and is now submitted for sanction.

4 Although two invalid carriages are required, the Military Authorities wish that one only should be built in the first instance, the second not to be put in hand until the first has been completed and inspected.

5 His Excellency the Governor in Council has been pleased to express his willingness to recommend to the Government of India that the cost of these carriages should be debited to Capital; and as the Military Authorities are anxious that the first vehicle should be constructed without delay, so as to allow of the two being completed before the next season for sending invalids to England, I beg to suggest that early sanction be solicited.

6 The Budget Estimate for 1872-73 contains no provision to meet this outlay; but the estimated expenditure may, for the present, be made available from item 28, in Schedule B

Engineering

Engineering Department

Madras
24 May
1872

I have the honour to be
Sir,
Your Most Obedt Servt

V. Mantheurent Lt Coll R.E.

Cons: Engr for Railways

Rec 15 Jun 1872 Pp 368-369
22 April 1872 329-330

Pr No 1872 Department
Pr No 1872 Pr No 2518
The Cons Engr for
Rly
To The Secy to Govt
P.W.D.

Dated 24 May 1872
No 27
No 256
Ent 4 28 May

Requesting
the sanction of Govt
for the construction
of the invalid
carriages

No 1407-1408-7 Ent 1/2

No 87

to 29 May 1872

Railway Department

Cons: Engrs office
23

No 279

Drawings showing the elevation and sections of the in=valid carriages recommended for adoption on the Madras Railway, and approved of by the Quarter Master General, are submitted to Government with reference to my letter No 256, dated 24th May 1872.

V. Mantheurent
Lieutt Coll R.E.

Madras
5 June
1872

Cons: Engineer for Railways

To
The Secretary to Government
Public Works Department
Fort Saint George

Public Works Department

No. 1407

Proceedings of the Madras Government

Read the following

From the Quarter Master General through the Military Deptt.

(H.E. No. 4203 of 21st May/72)

From the Consulting Engineer for Railways

(H.E. No. 256 of 24th May/72)

" Do Do

(H.E. 5th June/72 No. 279)

Ordered that the plan and estimate of Rs 9,740 for the construction of two invalid carriages for use on the Madras Railway be forwarded for the sanction of the Govt. of India.

H.E. No. 1408 C/

To

The Secy. to the Govt. of India

Sir

I am directed to submit for the sanction

To

The Consulg: Engr. for Railways

" Milg: Dept.

Desp. 8/6/72

S.D.S.

No. 1872 Department
Govt. of India
No. 2801
The Cons. Engr.
for Ry.
To the Secy. to Govt.
P.W.D.
Dated 5th June/72
No. 279
Enclosure One Ms.

Forward
ing plan of
the invalid
carriage

No. 1407-1408-7th June/72

No. 82

sanction of the Govt of India the accompanying plan and estimate of £9,740 for the construction of two carriages designed for the conveyance of sick troops over the Madras Railway.

2. It will be observed from the enclosed correspondence that certain alterations in the pattern plan transmitted with your letter No 1490 G. R. dated 2d April 1872, involving a reduction of the number of berths from twelve to ten - two being placed transversely, were found to be necessary in order to adapt the vehicles to the turn tables now in use on the Madras line. The modified plan has been approved by the Military authorities who wish that one carriage may be first constructed for trial; and as it is important that both carriages should be ready by the end of the year for the transport of invalids who may then be expected to be forwarded for embarkation to England, I am to request that early sanction may be communicated to the estimate. Funds for the work will be provided from Item 28 in Schedule B

Immediate

3/6/72

C/Nos 2618 & 2578

Govt. of {1872} Madras.

PUBLIC WORKS.

To The Consulting Engr for Railways and

To The Secretary to the Govt of India

Dated

Recd. Encl. 2

G. O. 7th June 1872, No 1407-1408

Nos. 80 @ 83 & 84

Invalid Carriages - Ordered that the plan & Estimate, submitted by the Young Engr, for the construction of two Invalid Carriages for use on the Madras Ry be forwarded for the sanction of the Govt of India.

Forwarding for early sanction plan & estimate for the construction of two Invalid carriages for use on the Madras Railway.

Ord. 31st May 1872

29 May/72. Ord. 31st