M.R.O. 1—77,906—8-6-37.

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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 756-57 Press ~~Mis.~~
228-230.

Dated 10. 3. 1870.

Not to be folded or roughly handled

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, *10th March* 1870.

No. 230.

No. 757.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

RAILWAY, No. 20.

From Government of India, dated 18th September 1869, No. 1,421-R.
Do. do. do. 7th October 1869, No. 1,553-R.

SIR,—With reference to the correspondence marginally noted, in which the Government of India direct that measures should be adopted for ascertaining the carrying capacity of the rolling stock of the Railways of this Presidency for the transport of troops and material of war, I am directed to state that Committees having been appointed at Bangalore and Trichinopoly to test by actual experiment the actual carrying capacity of each of the various descriptions of vehicle respectively in use on the Madras and Great Southern of India Railways, the returns which are herewith submitted for the information of the Government of India have been prepared.

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

Colonel, R.E.
Secretary to Government.

Exd. E. C. Shunker.

A

W.O. 1/2 W 393/70

Amount of Carriage required for a Battery of Artillery

Ross-10" March 1/70 L L 228

Sy b/11862

A

Amount of Carriage required for a Field Battery

Material	1st Class armed Carriage	2nd Class Carriage	3rd Class Carriage	Ballast Wagons	Light Limber Waggons	Covered Goods Wagons	Total	Remarks
7 Officers	* 1	"	"	"	"	"	1	* This Carriage has 10 first Class seats and 16 second class.
146 Europeans	"	4	"	"	"	"	4	
295 Followers	"	"	7	"	"	"	7	
4 Guns and Limbers	"	"	"	4	"	"	4	
2 Howitzers	"	"	"	2	"	"	2	
12 Ammunition Wagons	"	"	"	12	"	"	12	
1 Store Cart	"	"	"	1	"	"	1	
1 Store Limber Wagon	"	"	"	1	"	"	1	
1 Forge Limber Wagon	"	"	"	1	"	"	1	
1 Spare Howitzer Carriage and Limber	"	"	"	1	"	"	1	
3 Sick Cart	"	"	"	3	"	"	3	
Camp Equipage and Doolies	"	"	"	"	4	"	4	Doolies to be placed on top of Tents.
Baggage 27880 lbs.	"	"	"	"	"	6	6	
82 Bullocks.	"	"	"	"	"	11	11	
	1	4	7	25	4	17	58	

Subsistence
10th December 1869

N. B. There are no Horse Wagons on this due for the conveyance of the Horses of the Battery

J Rees Lt Col
26th Regt N.I. President

H Thomson Major RA
Maunsell Capt
Thesiger Capt
Lowe Lieut
Dodge Lieut
Turner Lieut
Rundle Lieut
Pepper Major
Dr & Superintendent Med Dept
R Mullins Asst Surgeon
Lowe Md Staff Apothecary
Bentley Asst Commy
British Md Dept

} Members
} In attendance
} Not member.

B.

Amount of Carriage required for a Company of European Infantry.

WO 33/30
Rec'd 3 Mar 1830 L. L 228

Ly No 11842

B.

Amount of Carriage required for a Company of Europeans.

Material	1st Class Composite Carriage	2nd Class Carriage	3rd Class Carriage	Ballock Wagons	High studded Spring Carts	Covered Goods Wagons	Total	Remarks.
3 Officers	a. 1	"	"	"	"	"	1	Composite Carriage has 10 First Class Seats and 16 Second Class.
87 Europeans	"	3	"	"	"	"	3	
50 Natives	"	"	1	"	"	"	1	
2 Sick Carts	"	"	"	2	"	"	2	
Camp Equipage & Doolies	"	"	"	"	3	"	3	Doolies to be placed on top of Tents.
Baggage 9840 lbs.	"	"	"	"	"	3	3	
6 Bullocks	"	"	"	"	"	1	1	
	1	3	1	2	3	4	14	

Sukkurpolz
10th December 1864.

Secundabad
26th Regt N. Pioneers

Thompson Major Rtd.
Mannus Capt
The Royal Regt
Lowrence Capt
Dooly

} Invalids

In attendance { Meiklejohn Regimental Surgeon Hospl
Dr Dispensary Native Hospl do
R. Whittington Lowe M.D. Staff Apothecary Surgeon Assistant Medical Staff
Brooke Asst Commissariat Escort Invalids

C.

Amount of
Carriage
required for a
Company of
Native Infantry

for 393 men
From 10 March 1846 Ld 238

Ly No 11842

C.

Carriage required for a Company of Native Infantry.

Material		1st Class Cantonment Carriage	2nd Class Carriage	3rd Class Carriage	Hire Goods Wagon	Casual Goods Wagon.	Total.	Remarks
2 Native Officers		"	"	"	"	"	"	
87 Non: Com.d Rank & File	5	"	3	"	"	"	3	
22 Followers		"	"	1	"	"	1	
Camp Equipage and Dooly		"	"	"	1	"	1	Dooly to be placed on top of Tents.
Baggage 4680 lbs:		"	"	"	"	1	1	
5 Bullocks. viz: Pukally and 4 Tents		"	"	"	"	1	1	
		"	3	1	1	2	7	

Richmond
10th December 1869.

Dinapore:
26th Regt N.I. Regimental

Armstrong Major
Rle
Mauvens Capt.
The Royal Regt
Offg Lieut Col

Members

Quarterly

In attendance { Alexander Pinkney Lieut. Surgeon Major
for Dr Hospl Staff and Asst
R. Wallington Lieut Qrd Staff Assist Surgeon, British Med Dept

Quarterly Committee Members.

Native Company. Marching strength

	Native Soldiers					Total of Soldiers.	Followers.						Total of Followers.	Remark
	Native Officer	Havildars	Naiques	Drummers	Sepoys		Puckallys	Right Markers	Doolie Bearers	Bullock Drivers	Bullocks	Followers at 10 per cent		
Native Company	2	5	5	2	75	89	1	1	5	3	1	* 11	22	Camp Equipage Tents Native 4 Doolie 1 Bullocks Puckally 1 1 Tent 4 Weight of Baggage allowed. 4680 lbs.

* including 2 Native Officers servants.

Trichinopoly
6th December 1849

J Bremner Lt
26th Regt N.I.

European Company. Marching Strength

	Europeans							Natives								
	Captain	Subaltern	Sergeants	Corporals	Drummers	Privates	Total of Europeans	Drapers	Purkallies	Tent Lascars	Body Bearers	Sick Cart-Drivers	Officers' Servants	Followers at 10 per cent	Total of Natives	Remarks.
European Company	1	2	4	4	2	75	88	1	2	4	18	2	14*	9	50	Camp Equipage Officers Tents — 3 Cartman Tents Tents European — 7 " Native — 1 Doolies — 3 Sick Cart — 2 Bullock Purkally — 2 " Sick Cart — 4 Weight of Baggage allowed 9840 lbs.

*including 1 Drapers Servant.

Inchmirtoy
6th December 1841

A Maunsell Capt
Com.g Detachment 1st The Royal Regt.

Abstract Statement of a Field Battery of Royal Artillery

| Europeans | | | | | | | | | | | | | | | Natives | | | | | | | | | | | | | | | Horses | Cattle | | | | | | | | | | | | | | |

P/7393/10

Rao-10 March 20 L 228

of the Madras and G. I. Railways in Mem, Ordnance and Material of War.

(By order)

Lieutenant Colonel.

Deputy Director General

Dr. Mr. General's Office,
Fort St. George, 18th Jany 1870.

No. 362

From

Quarter Master General,

To

The Consulting Engineer
for Railways.

Rec.d 19 Mar/70 Ln 2928

With reference to
D.O. No 3417 dated 23rd October
1869 P.W.D., received with
letter No. 783 dated 4th
November 1869, forwards
Proceedings of Committees
as per margin, held at
Bangalore and Trichinopoly
for the purpose of making
certain experiments connected
with the Carrying Capabilities
of

1 Proceedings of Committee held at Bangalore dated 31st December 1869.

2. Proceedings of Committee held at Trichinopoly on the 29 November 1869 with 3 Enclosures. A.B.&C.

CONSULTING ENGINEER'S OFFICE,

Railway Department.

No. 25

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

To Colonel C. A. Orr, R.E.,
Secretary to Government,
Public Works Department,
Fort Saint George.

SIR,

Referring to G.O. No. 3417, dated the 23rd October 1869, I have the honour to submit docket No. 362, dated 18th January 1870, from the Deputy Quarter Master General, giving cover to Proceedings of Committees held at Bangalore and Trichinopoly to test by actual experiment the best way of packing the different descriptions of

vehicles, &c^a, in use on the Madras and the Great Southern of India Railways.

2 . At page 5 of the Proceedings of the Bangalore Committee the column headed "Number of vehicles in use" was left blank. The figures have been filled in in this Office.

I have the honour to be

Sir,

Madras
20th January 1870

Your most obedient servant.

Lieutenant Major, R.E.

Consulting Engineer for Railways

(1.)

Proceedings of a Committee held at Bangalore by order of Major General F. D Haines Commanding the Bangalore Division, for the purpose of making certain experiments connected with the carrying capabilities of the

Proceedings of a Committee held at Bangalore by order of Major General F. D Haines Commanding the Mysore Division, for the purpose of making certain experiments connected with the carrying capabilities of the Madras Railway in Men, Ordnance, and Material of War.

Dated Bangalore 30th November 1869.

President

Lieutenant Colonel H. E. Leyneley. Madras Cavalry.

Members

Major W. R. Wrathan D.A.A.G. Mysore Division

Captain B. A. Gordon Royal Horse Artillery

Captain R. C. Smith Bay. Art. Commg Ordnance Bangalore

Captain S. Martineau 3/60th Kings Own Rifle Corps.

The Committee having assembled Pursuant to order: the following papers are read;—

Proceedings of the Madras Government, Pub. Dept. dated 30th October 1869. Nos 223 & 224 / G.O. No 3798. /

Proceedings of the Madras Government, Pub. Dept. dated 5th November 1869. Nos 104 & 105 / G.O. No 3,541 /

"Different Descriptions of Vehicles"

The Committee ascertain that the Number of different descriptions of Vehicles in use on the Madras Railway are Twenty Three, and comprise the following Fifteen Carriages known as and termed "Passenger Carriages"; and Eight Waggons known as and termed "Goods Waggons"

"Passenger Carriages"

"Passenger Carriages"

1 Day First Class
2 Night First Class
3 Day Composite (One Pattern)
4 Do. Do. (Second Pattern)
5 Night Composite
6 Second Class
7 Second Class Mail Compartment
8 Third Class
9 Third Class Post Office Break
10 Third Class Break
11 Cashier Carriage
12 Lowly Class Carriage
13 Passenger Luggage (or Break) Van
14 Horse Box
15 Carriage Truck

Railway Department.

From

The Consulting Engineer for Railways,

To

The Secretary to Government, Public Works Department, Fort Saint George.

Dated 20th January 1870.
Received 31st

No. 25 T. Bunbury to Submitting Docket of 1869 dated 15th December

Ans 928

With reference to the capabilities of the different vehicles for the Transport of troops and Horse materials

I beg to forward herewith a Report of the Committee assembled at Bangalore to ascertain the Carrying capabilities of the different vehicles on the Madras Railway for the Transport of Troops and Horse materials.

I have the honor to be Sir Your most obedient Servant

Lieutenant Colonel R.E.

Secretary to Government

Public Works Department

Fort Saint George

Ingress & Egress of Passengers — 6 — The facilities for Ingress and Egress of Passengers are complete —

Break compartments not available for Passengers — 7 — The Break compartments are required to be occupied exclusively by Railway Guards &c —

Conveyance for Horses. — 8 — The only Vehicles adapted for the conveyance of Horses are Horse boxes, Cattle Trucks, and Coke Waggons.

Trucks, Limit of Weight. — 9. — The Trucks and Goods Waggons are severally calculated to carry Six Tons of Dead Weight, and some of the High sided Open Goods Waggons are constructed to carry Nine Tons —

Maximum packing Heights. — 10. — Although the Maximum packing Heights (above sides) are given in the Measurements of Open Vehicles, it is not considered Desirable that Tents and Stores should be packed to an extent exceeding three and a half feet in height above the sides lest it should interfere with the "balance" of the goods when the Vehicle is in motion.

Weight Difference only, between Carriage Truck & open sided Goods Waggon — 11. — The only difference between a Carriage Truck and Open sided Goods Waggon is, that the former are fitted with bars to prevent a Carriage when placed on it from moving, but these bars are not essential

Conveyance for Heavy Ordnance, and Ambulance Carts — 12 — The only Vehicles adapted for the conveyance of Heavy Ordnance and Ambulance Carts are the Carriage Truck, and Open sided Goods Waggon —

Conveyance for Shot & Shell. — 13. — The Carriage Truck; High sided Open Goods Waggon; and Open sided goods Waggon; are adapted to the conveyance of any description of Shot and Shell piled to the height of the sides of Vehicle, provided it does not exceed the limit of Weight prescribed above in Para 9. —

European Soldiers Kit. — 14 — The following Vehicles are suited to convey the European Soldier's kit, consisting of a rug, and two blankets; and the Valise, or kit bag, containing the whole of a man's kit as required by Regulation for Field Service. Weighing Forty one Pounds —

Weight lbs 41. — j — Rly. Second Class Break Compartment. — The Break

Mail Compartment of this carriage is calculated to contain 75 kilo complete _____ 75 kilo

_____ ii _____ No 13 "Passenger Luggage /or Break/ Van"
The Luggage compartment of this carriage is calculated to contain 120 kilo complete _____ 120 kilo

_____ iii _____ No 2 "Covered Goods Waggon" This Goods Waggon is calculated:
to contain 155 kilo complete _____ 155 kilo

_____ iv _____ No 3 "Coke Waggon" is calculated to contain 150 kilo complete _____ 150 kilo

_____ v _____ No 7 "Goods Break Van" The Goods compartment of this Van, is calculated to contain 100 kilo complete _____ 100 kilo

_____ 15 _____ Twelve European Feet complete, "or" Thirty-six Native Feet complete may be conveyed on One "High sided Open Goods Waggon", and,
Eight European Feet complete, "or" Twenty-seven Native Feet complete may be conveyed on One "Open sided Goods Waggon", or, on One "Carriage Truck" _____ 710:

Return of rolling stock in use on the Madras Railway, shewing the capabilities of the different Vehicles for the transport of Troops and War materials _____

	Description of Rolling Stock	Nos of Vehicles in use	Nos accommodated in & on each with Luggage	Nos of Troops accommodated in each with Luggage	Nos of Troops accommodated in each with Luggage	Limit of weight to be placed in each Vehicle	Internal Dimensions Length		Breadth		Height of Floor from Rail Level	
							Feet	Inches	Feet	Inches	Feet	Inches
Carriages Passenger	1 Day First Class	1	30	..	..	..	/a/	..	/a/	..	..	..
	2 Night First Class		30		..	..	/a/	..	/a/	..	..	..
	3 Day Composite /No 1/		36		..	..	/a/	..	/a/	..	..	..
	4 Do: Do: /No 11/		34		..	..	/a/	..	/a/	..	..	..
	5 Night Composite		36		..	..	/a/	..	/a/	..	..	..
	6 Second Class		40		..	..	/a/	..	/a/	..	..	..
	7 Second Class Mail Compartt		20		..	..	/a/	..	/a/	..	..	..
	8 Third Class		40	60	..	..	/a/	..	/a/	..	..	..
	9 Third Class Post Office Break		16	24	..	..	..	..	..	..	..	..
	10 Third Class Break		32	48	..	..	..	..	..	..	..	..
	11 Cashier Carriage		32	48	..	..	..	..	..	..	..	..
	12 Lady Class Carriage		20	40	..	..	15	3	7	9½	..	..
	13 Passenger Luggage or Break/Van		..	..	..	..	/a/	..	/a/	..	..	..
	14 Horse Box		..	6	3	..	..	..	..	..	..	..
	15 Carriage Truck		..	..	..	..	15	8	8	2	4	3¾
Goods Waggons	1 Cattle Truck		..	..	6	..	15	3½	7	10½	..	..
	2 Covered Goods Waggon		..	..	..	..	15	3	7	4	..	..
	3 Coke Waggon		..	..	6	..	15	3	7	9½	4	2½
	4 High sided open Goods Waggon		..	..	..	..	15	8	8	2	4	1
	5 Open sided Goods Waggon		..	..	..	..	15	7	8	2	4	4
	6 Timber Truck		..	..	..	..	/a/	..	8	1½	4	3¾
	7 Goods Break Van		..	..	..	..	/a/	..	/a/	..	..	..
	8 Powder Van		..	..	..	..	/a/	..	/a/	..	..	..

(Details General Observations Remarks Page 3)

/a/ Vide Ordy of Proceedings _____

1. "Day First Class"

1. This Carriage is in Three Compartments; Each compartment consists of Two Benches / fixtures / placed breadth-ways, and facing each other, with cushions; Each Bench is partially sub-Divided by elbow-rests, and is capable of containing, on an emergency Five Persons; and each compartment Ten Persons.

Total Thirty Passengers

30 Passengers.

2. The External Dimensions of the compartments are alike, and are as follows:

	Feet	Inches	
Length of Compartment	6	5	
Breadth of Do:	8	"	
Back to Back of seats facing each other	5	8	Case backs
Between the seats	2	"	
Depth of seat	1	10	

"Night First Class"

2. "Night First Class"

1. This Carriage is in Three Compartments; Each compartment consists of Two Benches / fixtures / placed breadth-ways, and facing each other, with cushions; Each Bench is capable of containing on an emergency Five Persons; and each compartment Ten Persons.

Total Thirty Passengers.

30 Passengers.

2. The Backs of the Benches of this Carriage are so constructed as to admit of their being raised and supported; and each compartment may thus, in lieu of the above, accommodate Four Persons with comfortable Beds.

Total Twelve Beds

"02" 12. Beds.

3. The External Dimensions of the compartments are alike, and are as follows: Length and Breadth, the same as "Day First Class".

	Feet	Inches	
Back to Back of seats facing each other	5	6	Padded cushions
Between the seats	1	11	
Depth of seat, and Bed	2	3	

Remarks

* Side Passengers, Each Description of Vehicle, Pages

123 Only Vessels Vehicles exclusive of Two Break Vehicles can Accommodate Six Guests at one time

2 It is calculated that Two Complete Vehicles, together with the Vehicles of which the Break Carriage is a part, in addition to Guard only, will Accommodate 6 Soldiers Equipped, supplied with Three Days

/ 2.a. /

Description of Vehicles	Number of Vehicles	Horses per Vehicle	Horses	Spare Horses	Total Horses	Passengers per Vehicles *	Passengers	Total Passengers
1. Day First Class	1	4	4		4	10	10	10
2. Night First Class	1	4	4		4	10	10	10
3. Cattle Truck	1	4	4		4	10	10	10
4. Forage Waggon	1	4	4		4	10	10	10
5. Store Carts	2	2	4		4	2	4	4
6. Store Waggons	2	4	8		8	2	4	4
7. Store Carts	1	2	2		2	2	2	2
8. Store Waggons	1	4	4		4	2	2	2
9. Store Carts	1	2	2		2	2	2	2
10. Store Waggons	1	4	4		4	2	2	2
11. Store Carts	1	2	2		2	2	2	2
12. Store Waggons	1	4	4		4	2	2	2
13. Store Carts	1	2	2		2	2	2	2
14. Store Waggons	1	4	4		4	2	2	2
15. Store Carts	1	2	2		2	2	2	2
16. Store Waggons	1	4	4		4	2	2	2
17. Store Carts	1	2	2		2	2	2	2
18. Store Waggons	1	4	4		4	2	2	2
19. Store Carts	1	2	2		2	2	2	2
20. Store Waggons	1	4	4		4	2	2	2
21. Store Carts	1	2	2		2	2	2	2
22. Store Waggons	1	4	4		4	2	2	2
23. Store Carts	1	2	2		2	2	2	2
24. Store Waggons	1	4	4		4	2	2	2
25. Store Carts	1	2	2		2	2	2	2
26. Store Waggons	1	4	4		4	2	2	2
27. Store Carts	1	2	2		2	2	2	2
28. Store Waggons	1	4	4		4	2	2	2
29. Store Carts	1	2	2		2	2	2	2
30. Store Waggons	1	4	4		4	2	2	2
31. Store Carts	1	2	2		2	2	2	2
32. Store Waggons	1	4	4		4	2	2	2
33. Store Carts	1	2	2		2	2	2	2
34. Store Waggons	1	4	4		4	2	2	2
35. Store Carts	1	2	2		2	2	2	2
36. Store Waggons	1	4	4		4	2	2	2
37. Store Carts	1	2	2		2	2	2	2
38. Store Waggons	1	4	4		4	2	2	2
39. Store Carts	1	2	2		2	2	2	2
40. Store Waggons	1	4	4		4	2	2	2
41. Store Carts	1	2	2		2	2	2	2
42. Store Waggons	1	4	4		4	2	2	2
43. Store Carts	1	2	2		2	2	2	2
44. Store Waggons	1	4	4		4	2	2	2
45. Store Carts	1	2	2		2	2	2	2
46. Store Waggons	1	4	4		4	2	2	2
47. Store Carts	1	2	2		2	2	2	2
48. Store Waggons	1	4	4		4	2	2	2
49. Store Carts	1	2	2		2	2	2	2
50. Store Waggons	1	4	4		4	2	2	2
51. Store Carts	1	2	2		2	2	2	2
52. Store Waggons	1	4	4		4	2	2	2
53. Store Carts	1	2	2		2	2	2	2
54. Store Waggons	1	4	4		4	2	2	2
55. Store Carts	1	2	2		2	2	2	2
56. Store Waggons	1	4	4		4	2	2	2
57. Store Carts	1	2	2		2	2	2	2
58. Store Waggons	1	4	4		4	2	2	2
59. Store Carts	1	2	2		2	2	2	2
60. Store Waggons	1	4	4		4	2	2	2
61. Store Carts	1	2	2		2	2	2	2
62. Store Waggons	1	4	4		4	2	2	2
63. Store Carts	1	2	2		2	2	2	2
64. Store Waggons	1	4	4		4	2	2	2
65. Store Carts	1	2	2		2	2	2	2
66. Store Waggons	1	4	4		4	2	2	2
67. Store Carts	1	2	2		2	2	2	2
68. Store Waggons	1	4	4		4	2	2	2
69. Store Carts	1	2	2		2	2	2	2
70. Store Waggons	1	4	4		4	2	2	2
71. Store Carts	1	2	2		2	2	2	2
72. Store Waggons	1	4	4		4	2	2	2
73. Store Carts	1	2	2		2	2	2	2
74. Store Waggons	1	4	4		4	2	2	2
75. Store Carts	1	2	2		2	2	2	2	11/20	3/20
76. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
77. Store Carts	1	2	2		2	2	2	2	11/20	3/20
78. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
79. Store Carts	1	2	2		2	2	2	2	11/20	3/20
80. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
81. Store Carts	1	2	2		2	2	2	2	11/20	3/20
82. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
83. Store Carts	1	2	2		2	2	2	2	11/20	3/20
84. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
85. Store Carts	1	2	2		2	2	2	2	11/20	3/20
86. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
87. Store Carts	1	2	2		2	2	2	2	11/20	3/20
88. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
89. Store Carts	1	2	2		2	2	2	2	11/20	3/20
90. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
91. Store Carts	1	2	2		2	2	2	2	11/20	3/20
92. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
93. Store Carts	1	2	2		2	2	2	2	11/20	3/20
94. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
95. Store Carts	1	2	2		2	2	2	2	11/20	3/20
96. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
97. Store Carts	1	2	2		2	2	2	2	11/20	3/20
98. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
99. Store Carts	1	2	2		2	2	2	2	11/20	3/20
100. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
101. Store Carts	1	2	2		2	2	2	2	11/20	3/20
102. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
103. Store Carts	1	2	2		2	2	2	2	11/20	3/20
104. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
105. Store Carts	1	2	2		2	2	2	2	11/20	3/20
106. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
107. Store Carts	1	2	2		2	2	2	2	11/20	3/20
108. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
109. Store Carts	1	2	2		2	2	2	2	11/20	3/20
110. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
111. Store Carts	1	2	2		2	2	2	2	11/20	3/20
112. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
113. Store Carts	1	2	2		2	2	2	2	11/20	3/20
114. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
115. Store Carts	1	2	2		2	2	2	2	11/20	3/20
116. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
117. Store Carts	1	2	2		2	2	2	2	11/20	3/20
118. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
119. Store Carts	1	2	2		2	2	2	2	11/20	3/20
120. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
121. Store Carts	1	2	2		2	2	2	2	11/20	3/20
122. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
123. Store Carts	1	2	2		2	2	2	2	11/20	3/20
124. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
125. Store Carts	1	2	2		2	2	2	2	11/20	3/20
126. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
127. Store Carts	1	2	2		2	2	2	2	11/20	3/20
128. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
129. Store Carts	1	2	2		2	2	2	2	11/20	3/20
130. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
131. Store Carts	1	2	2		2	2	2	2	11/20	3/20
132. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
133. Store Carts	1	2	2		2	2	2	2	11/20	3/20
134. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
135. Store Carts	1	2	2		2	2	2	2	11/20	3/20
136. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
137. Store Carts	1	2	2		2	2	2	2	11/20	3/20
138. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
139. Store Carts	1	2	2		2	2	2	2	11/20	3/20
140. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
141. Store Carts	1	2	2		2	2	2	2	11/20	3/20
142. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
143. Store Carts	1	2	2		2	2	2	2	11/20	3/20
144. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
145. Store Carts	1	2	2		2	2	2	2	11/20	3/20
146. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
147. Store Carts	1	2	2		2	2	2	2	11/20	3/20
148. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
149. Store Carts	1	2	2		2	2	2	2	11/20	3/20
150. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
151. Store Carts	1	2	2		2	2	2	2	11/20	3/20
152. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
153. Store Carts	1	2	2		2	2	2	2	11/20	3/20
154. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
155. Store Carts	1	2	2		2	2	2	2	11/20	3/20
156. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
157. Store Carts	1	2	2		2	2	2	2	11/20	3/20
158. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
159. Store Carts	1	2	2		2	2	2	2	11/20	3/20
160. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
161. Store Carts	1	2	2		2	2	2	2	11/20	3/20
162. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
163. Store Carts	1	2	2		2	2	2	2	11/20	3/20
164. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
165. Store Carts	1	2	2		2	2	2	2	11/20	3/20
166. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
167. Store Carts	1	2	2		2	2	2	2	11/20	3/20
168. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
169. Store Carts	1	2	2		2	2	2	2	11/20	3/20
170. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
171. Store Carts	1	2	2		2	2	2	2	11/20	3/20
172. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
173. Store Carts	1	2	2		2	2	2	2	11/20	3/20
174. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
175. Store Carts	1	2	2		2	2	2	2	11/20	3/20
176. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
177. Store Carts	1	2	2		2	2	2	2	11/20	3/20
178. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
179. Store Carts	1	2	2		2	2	2	2	11/20	3/20
180. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
181. Store Carts	1	2	2		2	2	2	2	11/20	3/20
182. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
183. Store Carts	1	2	2		2	2	2	2	11/20	3/20
184. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
185. Store Carts	1	2	2		2	2	2	2	11/20	3/20
186. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
187. Store Carts	1	2	2		2	2	2	2	11/20	3/20
188. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
189. Store Carts	1	2	2		2	2	2	2	11/20	3/20
190. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
191. Store Carts	1	2	2		2	2	2	2	11/20	3/20
192. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
193. Store Carts	1	2	2		2	2	2	2	11/20	3/20
194. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
195. Store Carts	1	2	2		2	2	2	2	11/20	3/20
196. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
197. Store Carts	1	2	2		2	2	2	2	11/20	3/20
198. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
199. Store Carts	1	2	2		2	2	2	2	11/20	3/20
200. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
201. Store Carts	1	2	2		2	2	2	2	11/20	3/20
202. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
203. Store Carts	1	2	2		2	2	2	2	11/20	3/20
204. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
205. Store Carts	1	2	2		2	2	2	2	11/20	3/20
206. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
207. Store Carts	1	2	2		2	2	2	2	11/20	3/20
208. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
209. Store Carts	1	2	2		2	2	2	2	11/20	3/20
210. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
211. Store Carts	1	2	2		2	2	2	2	11/20	3/20
212. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
213. Store Carts	1	2	2		2	2	2	2	11/20	3/20
214. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
215. Store Carts	1	2	2		2	2	2	2	11/20	3/20
216. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
217. Store Carts	1	2	2		2	2	2	2	11/20	3/20
218. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
219. Store Carts	1	2	2		2	2	2	2	11/20	3/20
220. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
221. Store Carts	1	2	2		2	2	2	2	11/20	3/20
222. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
223. Store Carts	1	2	2		2	2	2	2	11/20	3/20
224. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
225. Store Carts	1	2	2		2	2	2	2	11/20	3/20
226. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
227. Store Carts	1	2	2		2	2	2	2	11/20	3/20
228. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
229. Store Carts	1	2	2		2	2	2	2	11/20	3/20
230. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
231. Store Carts	1	2	2		2	2	2	2	11/20	3/20
232. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
233. Store Carts	1	2	2		2	2	2	2	11/20	3/20
234. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
235. Store Carts	1	2	2		2	2	2	2	11/20	3/20
236. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
237. Store Carts	1	2	2		2	2	2	2	11/20	3/20
238. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
239. Store Carts	1	2	2		2	2	2	2	11/20	3/20
240. Store Waggons	1	4	4		4	2	2	2	11/20	3/20
241. Store Carts	1	2	2		2	2	2	2	11/20	3/20
242. Store Waggons	1	4	4		4	2	2	2	11/20	3/20	Elephants	Steamers
									11	23	62	174	3 2/20	3 15/20

Total Passengers Elephants 11/20 Steamers 3 15/20

Total Passengers Elephants 23/20 Steamers 3 2/20

Total Passengers Elephants 62/20 Steamers 3 2/20

Total Passengers Elephants 174/20 Steamers 3 15/20

"2020"

Received a requisition of the Commissariat Officer of each Description of Vehicles as detailed above, for the Conveyance of Stores, Ammunition, Baggage, Troops, &c. &c. Marked as a Company, a Troop, or a Field Battery &c. respectively as specified.

Date of Requisition

Date of Receipt

Signature of Commissariat Officer

Signature of Officer Commanding Company of Infantry /1/

Signature of Officer Commanding Troop of Cavalry /1/

Signature of Officer Commanding Field Battery, Royal Artillery /1/

Signature of Officer Commanding Battery of Royal Horse Artillery /1/

For 4 Officers, 85 R.C. and Men, 60 Long Limbers, 8 Bullocks, 1 Ambulance Cart, 6 Doolies, 12 European Seats and 2 Extra Seats

For 4 Officers, 64 R.C. and Men, 44 Long Limbers, 72 Horses, 8 Bullocks, 1 Ambulance Cart, 3 Doolies, 11 European Seats and 1 Extra Seat

For 4 Officers, 145 R.C. and Men, 341 Long Limbers, 184 Horses, 24 Bullocks, 1 Ambulance Cart, 6 Doolies, 12 European Seats and 2 Extra Seats

For 4 Officers, 145 R.C. and Men, 341 Long Limbers, 184 Horses, 24 Bullocks, 1 Ambulance Cart, 6 Doolies, 12 European Seats and 2 Extra Seats

For Spare Baggage Carriage, 2 Ambulance Carts, 4 Doolies, 25 European Seats and 4 Extra Seats

For 4 Officers, 145 R.C. and Men, 330 Long Limbers, 194 Horses, 24 Bullocks, 1 Ambulance Cart, 6 Doolies, 25 European Seats and 4 Extra Seats

Spare Baggage Carriage, 2 Ambulance Carts, 4 Doolies, 25 European Seats and 4 Extra Seats

3. "Day Composite" Jone Pattern

3. "Day Composite" Jone Pattern

1. This Carriage is in Three Compartments; Viz: One "Day First Class" in the centre; and a "Second Class" compartment, varying in arrangement and dimensions, at either end of the Carriage.

2. The "Day First Class" compartment is similar in arrangement and dimensions to the compartments described under the Head "Day First Class" and is capable of containing Jen Persons.

3. "One" of the "Second Class" compartments consists of Three Benches (fixtures) which are placed breadth-ways, and vary in depth of seat, and in distance between the seats. Each Bench is capable of containing Five Persons, and the compartment Fifteen Persons. The Internal Dimensions of this Compartment are as follows:

	Feet	Inches		Feet	Inches		Feet	Inches
Length	7	11½						
Breadth	8	"						
Between the seats	1	6½	and	1	8			
Depth of seats	1	8¾	and	1	7½	and	1	4½

4. The "other", Second Class compartment consists of Jwo Benches (fixtures) which are placed breadth-ways, facing each other, but varying in depth of seat. Each Bench is capable of containing Five Persons, and the compartment Jen Persons. The Internal Dimensions of this compartment are as follows:

	Feet	Inches		Feet	Inches
Length	4	11			
Breadth	8	"			
Between the seats	1	9			
Depth of seats	1	8¾	and	1	5¾

Total Thirty Five Passengers.

35 Passengers.

4. "Day Composite" Second Pattern

4. "Day Composite" Second Pattern

1. This Carriage is in Two Compartments; Viz: One half of the Carriage is "First Class" and the other is "Second Class".

2. The "First Class" compartment consists of a Bench at either end, and two smaller Benches placed Back to Back, length-ways, in the centre of the compartment. The Benches are fixtures and have cushions upon them; those at either end of the compartment are capable of containing on an emergency Five Persons each, and the smaller Benches Two Persons each; The compartment Fourteen Persons. The internal Dimensions of this compartment are as follows:

	Feet	Inches		Feet	Inches
Length	9	2			
Breadth	8	"			
Depth of end seats	1	6½	and	1	5½
Do of centre seats	1	9			
Space in front of end seats	1	6	and	1	7
Do: Do: of centre seats	2	"			

3. The Second Class compartment is similar in arrangement and dimensions to the compartments described under the Head 6. "Second Class" and is capable of containing on an emergency Twenty Persons.

Total Thirty Four Passengers.

34 Passengers.

5. Night Composite

5. "Night Composite"

1. This Carriage is in Three Compartments Viz. One half of the Carriage is "First Class" in two compartments, and the other half of the carriage

is "Second Class" in one Compartment.

2. "One" of the "First Class" compartments is similar in arrangement and dimensions to the compartments described under the Head 2. "Eight First Class" and is capable of containing, on an emergency, Ten Persons, or of accommodating Four Persons with comfortable Beds. /10/ /or 4 Beds/

3. The "other", "First Class" compartment is termed a Coupé and consists of One Bench (a fixture) placed breadthways, with cushions, and is capable of containing, on an emergency Five Persons. The Back of this Bench is so constructed as to admit of its being raised and supported, and this compartment may thus, in lieu of the above accommodate Two Persons with comfortable Beds. /5/ /or 2 Beds/

The Internal Dimensions of this compartment are as follows:

=	Feet	Inches
Length	4	2 1/2
Breadth	8	"
In front of seat (space)	2	"
Depth of seat	2	3

4. The Second Class compartment is similar in arrangement and dimensions to the compartments described under the Head 6 "Second Class" and is capable of containing, on an emergency, Twenty Persons. /20/

Total Thirty five Passengers. 35. Passengers

"or" Twenty Passengers and Six Beds. "or" 20. Passengers & 6. Beds

6. "Second Class" 6. "Second Class"

1. This Carriage is in Two Compartments, Each compartment consists of Four Benches (fixtures)

and two of the benches being placed back to back in the centre of the compartment, breadthways, the seats of the Benches face each other.

2. Each Bench is capable of containing on an emergency, Five Persons, and each compartment Twenty Persons.

Total Forty Passengers. 40 Passengers

3. The Internal Dimensions of the compartments are alike and are as follows:

=	Feet	Inches
Length of Compartment	9	8
Breadth of No:	8	"
Back to Back of seats facing each other	4	9
Between the seats No: No:	1	7 1/2
Depth of seat	1	6 3/4

4. Some of these carriages are in "One" Compartment, the length being | Feet 19 | Inches 6 |, but the arrangement, accommodation, and dimensions are similar in other respects to the above.

7. "Second Class Mail Compartment" 7. "Second Class Mail Compartment"

1. This Carriage is in Two Compartments

2. One compartment is in every respect similar in arrangement and dimensions to the compartments described under the Head 6 "Second Class" and is capable of containing, on an emergency Twenty Persons. 20 Passengers

Total Twenty Passengers

3. The second compartment is fitted and adapted for sorting the Mails, it is not fitted to the conveyance of Passengers. The Internal

Dimensions of this compartment are as follows:—

	Feet	Inches	
Length	9	8	These measurements are taken
Breadth	8	"	irrespective of the fittings

N.B. Vide General Observations Para 14. Page 3.

Exr: Soldiers Kits. 75.

8 "Third Class"

8 "Third Class"

1 This Carriage is in one Compartment, and consists of Ten Benches (Settees), and eight of the benches being placed back to back, broadways, the seats of the benches face each other.

2 Each Bench is capable of containing on an emergency, Four persons only, consequent on the narrowness of the seats, and the scantiness of space between the Benches.

Total Forty Passengers.

40 Passengers

3 This carriage is capable of containing Six Camp followers on each bench.

"6"

Total Sixty Camp Followers.

60 Camp Followers.

4 The Internal Dimensions are as follows:—

	Feet	Inches
Length	19	6
Breadth	8	"
Back to Back of seats facing each other	3	9
Between the seats Do. Do.	1	4½
Depth of seat	1	2

9 "Third Class Post Office Break"

9 "Third Class Post Office Break"

1 This Carriage is in Three Compartments as follows:—

$\frac{1}{8}^{th}$ of the Carriage is a Break Compartment

$\frac{2}{8}^{ths}$ of the Carriage is adapted to carrying Luggage

and $\frac{2}{8}^{ths}$ of the Carriage is "Third Class" and consists of

Four Benches; each Bench is capable of containing on an emergency, Four Persons only, consequent on the narrowness of the seats and the scantiness of space between the Benches.

Total Sixteen Passengers.

16 Passengers

2 This carriage is capable of containing Six Camp followers on each bench.

"6"

Total Twenty four Camp Followers.

24 Camp Followers.

10 "Third Class Break"

10 "Third Class Break"

1 This Carriage is in Two Compartments as follows:—

$\frac{1}{8}^{th}$ of the Carriage is a Break Compartment

$\frac{4}{8}^{ths}$ of the Carriage is "Third Class" and consists of Eight Benches; each Bench is capable of containing, on an emergency, Four persons only; consequent on the narrowness of the seats, and the scantiness of space between the Benches.

Total Thirty Two Passengers

32 Passengers

2 This carriage is capable of containing Six Camp followers on each bench.

"6"

Total Forty Eight Camp Followers.

48 Camp Followers.

11 "Cashier Carriage"

11 "Cashier Carriage"

1 This Carriage is in Two Compartments as follows:—

$\frac{1}{4}^{th}$ of the Carriage is a compartment badly ventilated, but it has two benches and each bench is capable of containing, on an emergency, Four Persons, or, Six Camp Followers. In the compartment Eight Persons or Twelve Camp Followers.

$\frac{3}{4}^{ths}$ of the Carriage is a compartment "Third Class"

such consists of six Benches; each Bench is capable of containing, on an emergency, Four Persons only; consequent on the narrowness of the seats and the scantiness of space between the Benches;— or, six Camp Followers on each Bench.— In the Compartment Twenty four Persons, or Thirty six Camp Followers—

/24/

/or 36 Camp Follrs./

— Total Thirty two Passengers —

32. Passengers

— or, — Forty Eight Camp Followers —

"or"

48 Camp Followers.

12 "Covly Vans Carriage"

12 "Covly Vans Carriage"

— 1 — This is a covered carriage in one compartment without seats, and is entitled to the conveyance of European Troops.— In the event of a great emergency it is capable of containing Twenty native Soldiers in Full marching Order, or Forty Camp Followers—

20 Native Soldiers

"or"

40 Camp Followers.

— 2 — The Internal Dimensions are as follows:—

	Feet	Inches
Length	15	3
Breadth	7	9 1/2
Height of two sides (length-ways)	4	"
Height of Carriage to opening of curve	5	2
Height of back of Carriage	5	6

13 "Passenger Luggage for Break / Van"

13. "Passenger Luggage for Break / Van"

— 1 — This Van is in Three Compartments as follows:—

— 1/5th of the Van is a Break Compartment —

— 3/5ths of the Van is available for parcels measuring —

Feet Inches. Feet Inches.

— 4 " 2 — X — 8 " 0; —

— 3/5ths of the Van is a Luggage compartment measuring —

Feet Inches. Feet Inches.

— 11 " 1/2 — X — 8 " 0 —

Parcels & Luggage

Eur: Soldier's kits 120.

— N.B. — Vide General Observations Para 14, Page 4 —

14 "Horse Box"

14 "Horse Box"

— This Vehicle is available for the conveyance of Three Horses with or without harness or saddlery, "or" Three Bullocks, in either case, with Six Camp Followers —

15 "Carriage Truck"

15 "Carriage Truck"

— 1 — These Trucks are entitled to the conveyance of Light Field Guns, Eighteen Pounder Guns, Twelve Pounder Guns, and Eight Inch Howitzers with their Carriages and Limbers — also, to the conveyance of Mortars and Mortar Carts — as follows: —

Light Field Guns

— 2 — "Light Field Guns" — Should it be necessary to run the Guns, Waggons &c on to the Truck without dismounting the Wheels &c, each Carriage with its Limber would require a Truck to itself, but there would be a considerable amount of room left for Barrels, Saddlery, or other Stores —

No:

— By Dismounting the Guns and Carriages, and taking off the Ammunition Boxes; when necessary, a Gun and its Ammunition Waggon with their respective Limbers may easily be put on one Truck; as also all the Harness &c belonging to the Sub-Division, should it be thought desirable to relieve the Horses of their weight —

No:

— To pack a Sub-Division of a Six Pounder Horse Artillery Battery in this way took Twenty five minutes from time of unhooking; and to unpack, mount carriages, harness the horses, and hook in, took Fifteen Minutes. With a little practice the time might be shortened —

Forge Waggon

Store Cart

Spare Carriage

Store Limber Waggon

— When the Carriages are thus Dismounted, the Forge Waggon and Store Cart might be put together on one Truck, and the Spare carriage and Store Limber Waggon together, on another Truck. Two of the

Second line of Ammunition Waggons might be packed on One Truck.

3 "Heavy Guns" An Eighteen Pounder Gun, a Twelve Pounder Gun, "or" an Eight Inch Howitzer with Carriage and Limber respectively may be conveyed on One Truck. — Heavy Guns

4 "Mortars" Three, Ten Inch Mortars with Beds and Mortar Carts, "or" Six, Eight Inch Mortars with Beds and Mortar Carts, "or" Twenty, Five and a half Inch Mortars, with Beds and four Carts for their Transport may be conveyed on One Truck. — Mortars

5 One Ambulance Cart, "or" Two Bodies may be conveyed on One Truck. — Ambulance Carts / Bodies

6 The Measurements of the Carriage Truck are as follows:

	Feet	Inches	
Length (Inside)	15	8	
Breadth (Do:)	8	2	
Height of Four sides	1	2	
Extent of side opening	7	11½	
Height of floor from rail level	4	3¾	
Maximum height above sides to which packing might extend	8	0¾	Vide General Observations Para 10, Page 3

7 For further remarks Vide Gen.l Obs.s Para 13 Page 3 — and Para 15 Page 4

1 "Cattle Truck"

1 The Measurement of this Covered Truck are as follows:

	Feet	Inches	
Length (Inside)	15	3½	
Breadth (Do:)	7	10½	
Height (Do:) to Spring of curve	6	4	
Do: (Do:) of Arch of Carriage	6	8	
Extent of Door opening	6	2½	× Feet 5 Broad

2 This Truck is divisible by partitions, into Five compartments which vary in width

1 "Cattle Truck"

from Feet 2 Inches 10 to Feet 2 Inches 8 and will thus accommodate

5 Horses, with Harness & saddlery — "or" — 6 Horses with Do: Do: — "or" — 8 Bullocks.

only five Animals - Horses, or Bullocks - tied by ropes inserting the partitions (which are not fixtures) this Truck may convey:

either, 6 Horses, without harness or saddlery

or, 8 Bullocks.

2 "Covered Goods Waggon"

2 "Covered Goods Waggon"

1 This Waggon is suitable to the conveyance of any kind of Baggage, the Measurements are as follows:

	Feet	Inches	
Length (Inside)	15	3	
Breadth (Do:)	7	4	
Height (Do: to spring of curve	5	7	
No. (Do:) of Arch of carriage	5	11	
Extent of Door opening	5	2	× Feet 5 Broad

N.B. Vide General Observations Para 14, Page 4

2 vide Soldier's Kits 155.

3 "Coke Waggon"

3 "Coke Waggon"

1 This is an uncovered Waggon and is capable of conveying, on an emergency:

either, 6 Horses, without harness or saddlery

or, 5 Horses, with harness and saddlery

or, 8 Bullocks

2 The Measurements are as follows:

	Feet	Inches	
Length (Inside)	15	3	
Breadth (Do:)	7	9½	
Height of Two sides (Length-ways)	4	..	
Do: of Two ends (Breadth-ways)	5	6	
Extent of side opening	5	..	
Height of floor from rail level	4	2½	
Maximum height above sides (length-ways) to which packing might extend	5	3½	Vide General Observations Para 10, Page 3

N.B. Vide General Observations Para 14, Page 4

5 Horses with Harness or saddlery "or" 5 Do: with Harness & saddlery "or" 8 Bullocks

2 vide Soldier's Kits 150

4. "High sided Open Goods Waggon"

4. "High sided Open Goods Waggon"

1 The extent of the side opening of this Waggon is insufficient to permit of a Carriage being run on, and the wheels would therefore require to be lifted over the sides, thereby causing a very considerable amount of extra labour

2 For Remarks on the capabilities of this Waggon vide General Observations Paras 9 & 13. Page 3, and Para 15. Page 4.

3 The Measurements are as follows:

	Feet	Inches
Length (Inside)	15	8
Breadth (Do:)	8	2
Height of Four sides	2	4
Extent of side opening	4	11
Height of floor from rail level	4	1
Maximum height above sides to which packing might extend	7	1

Vide General Observations Para 10. Page 3

5. "Open sided Goods Waggon"

5. "Open sided Goods Waggon"

1 The remarks made under the Head 15 "Carriage Truck" are equally applicable to this Waggon - Vide Pages 13 & 14.

2 For further Remarks Vide General Observations vide Paras 9, 11, 12, & 13. Page 3, and Para 15 Page 4.

3 The Measurements of this Waggon are as follows:

	Feet	Inches
Length (Inside)	15	7
Breadth (Do:)	8	2
Height of Four sides	1	3
Extent of side opening	7	11½
Height of floor from rail level	4	4
Maximum height above sides to which packing might extend	7	11

Vide General Observations Page 10 Page 3

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6. "Timber Truck"

6. "Timber Truck"

1 This Truck is hardly suited to Military purposes but might on an emergency be turned to account in various ways. It is used for the conveyance of Heavy Timber, and is divided in the centre by a large block of wood upon which the Timber is rested, and another block of equal size (each extending the whole breadth of the Truck) is made to be raised above it and is placed on the top of the Timber, when packed, to secure all from moving — The Truck by means of the blocks becomes two equal compartments, and there is no side opening

Heavy Timber

2 The Measurements of the Timber Truck are as follows:

	Feet	Inches
Length of each compartment	7	3½
Breadth of do: No:	8	1½
Height of the Four sides of the Truck	0	4½
Height of the Two blocks in the centre of No:	1	3½
Breadth of the blocks in do: do:	1	"
Height of the top of sides from Rail Level	4	8¼
Maximum height above sides to which packing might extend	8	9¾

Vide General Observations Para 10. Page 3.

7. "Goods Break Van"

7. "Goods Break Van"

1 This is a covered Van in two compartments Viz: the Break compartment which observes Three Sevenths of the Van, and a Goods compartment measuring as follows:

	Feet	Inches
Length of Goods compartment	8	9
Breadth of Do: No:	7	10½
Height of No: Do: to spring of centre	5	10
Do: Do: Do: of axle of carriage	6	2

N.B. Vide General Observations Para 14 Page 4

Enrolled Soldiers Kits 100

8 "Powder Van"

8 "Powder Van"

1 This is a covered Van in two compartments and is reserved exclusively for the conveyance of Ammunition

Each compartment measures as follows:—

	Feet	Inches	
Length of either compartment	7	9	
Breadth of Do: Do:	7	6	
Height of Do: Do: to spring of curve	4	3	
Height of Do: Do: of back of Carriage	4	7	
Extent of Door opening	4	"	× 2 ft. 11 in. Broad

2 It is capable of containing in either compartment

60 Barrels of Gunpowder at 100 lbs each Total. 6000 lbs — Gunpowder

"or" 102 Do: Do: at 50 lbs each Total. 5100 lbs

"or" 90 Ammunition Barrels (termed 45 lb Ammunition Barrels) at 1400 Rounds of Musket Rifle Ammunition, in each Barrel Total. 126,000 Rounds — Ammunition

"or" 90 Ammunition Barrels (termed 45 lb Ammunition Barrels) at 1800 Rounds of Smooth Bore Ammunition in each Barrel Total. 162,000 Rounds — Do:

"or" 216 Ammunition Barrels (termed 25 lb Ammunition Barrels) at 500 Rounds of Musket Rifle Ammunition, in each Barrel. Total 103,000 Rounds — Do:

"or" 216 Ammunition Barrels (termed 25 lb Ammunition Barrels) at 500 Rounds of Smooth Bore Ammunition in each Barrel. Total 103,000 Rounds — Do:

Bangalore 31st December 1869.

W. L. Seymour Lieut. Colonel Madras Cavalry — President

Major Staff Corps & Dy Asst Qr Mr Genl Mysore Division

Captain Royal Horse Artillery

Captain Royal Artillery & Commy of Ordnance Bangalore

Captain 3/60 15th Pne King's Royal Rifle Corps

Members.

P. W. Department.

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8 "Powder Van" 8 "Powder Va

1 This is a covered Van in two compartments and is reserved exclusively for the conveyance of Ammunition. Each compartment measures as follows:—

	Feet	Inches
Length of inside	4	8
Breadth of		
Height of		
Height of		
Extent of		

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Bangalore
31st December
1869.

Proceedings of a Committee held at Bangalore by order of Major General H. Upjohn Commg the Mysore Division for the purpose of making certain experiments connected with the carrying capabilities of the Madras Railways in Guns, Ordnance & Material of War.

Bangalore
31st December 1869.

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President

Madras Cavalry

Major

Staff Corps & 72nd Regt 2nd in Command Mysore Division

Captain

Royal Horse Artillery

Captain

Royal Artillery & Commdg Officer of Ordnance Bangalore

Captain

3/60th Regt King's Royal Rifle Corps

Members.

P. W. Department.

No 756

Proceedings of the Madras Government.

Under date the 10th March 1870

Read the following.

From The Consulting Engineer for Railways, H. E. No 250/20 January 1870.

Ordered that this letter and its accompaniments be forwarded to the Govt of India.

H. E. No 757

To The Secretary to the Govt of India

Sir

With reference to the

From Govt of India No 1421R Correspondence marginally
Do Do No 1553R. noted in which the Govt of

8. "Pounder Dam" — 8. Pounder Da

Proceedings of a Committee held at Bangalore by order of Major General Pitman Comm.g the Mysore Division for the purpose of making certain experiments connected with the carrying capabilities of the Madras Railway in Guns, Ordnance & Materiel of War.

W 393/70

Proc.s 10th March 70 to L. 228

Bangalore
31st December 1869.

Sig.d 302

P. W. Department.

No 756

Proceedings of the Madras Government.

Under date the 10th March 1870.

Read the following.

From The Consulting Engineer for Railways

H. E. No 250/20 January 1870

Ordered that this letter and its accompaniments be forwarded to the Govt of India.

To The Govt of Engd for Rys

Despd 12/3/70.

H. E. No 757

To The Secretary to the Govt of India

With reference to the correspondence marginally noted in which the Govt of

From Govt of India No 1421R dated 18th Sept 1869
Do Do No 1553R dated 7th Oct 1869

of India direct that measures should be adopted for ascertaining the carrying capacity of the rolling stock of the Railways of this Presidency for the transport of troops and material of war, I am directed to state that Committees having been appointed at Bangalore and Trichinopoly to test by actual experiment the actual carrying capacity of each of the various descriptions of vehicle respectively

as per rate on the Madras and Great Southern of India Railways, the returns which are herewith submitted for the information of the Govt of India, have been prepared.

Desp. 12/3/70 inter a Copy of Govt. 756 of 1870.

36 Copies of Govt. 756 of 1870 sent by Bangalore 12/3/70.

Sue 395

Govt. of 1870 Desp.

PUBLIC WORKS.

To
The Consulting Engineer
for Railways

&
To
The Secretary to the Govt
of India

Dated

Rcvd. Ind. 9

Q. O. 10th March 1870. Nos 756 & 757

Further Rec'd 1703 &
13-3-71

Nos. 228-229 & 230

Returned (Rly) Referring orders on the
letter from the Chief Engr relative to
the actual carrying capacity of the
4 wheels of the various description of vehicles
referred to
now in use on the Madras Rly & forwarded
Returned (Rly) Returns showing the
actual carrying capacity of
each of the vehicles referred to
on the Madras Rly & by Rly, forwarded
-ed Statistical Office