

(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. 1415	Press
415-16	Mis.
Dated 23 5	18 71.

Not to be folded or roughly handled

No. 415. Read the following letter from the Acting Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 9th May 1871, No. 203 :—

With reference to G. O., No. 2,255, of 19th September 1870, I have the honour to forward, for the sanction of the Government of India, the accompanying copy of estimate showing the probable cost of completing the surveys and estimates for a narrow gauge line from Madras to Cuddalore, in accordance with the instructions contained in G. O., No. 910, of 27th March 1871, and for the line that will be required to form a junction with the Great Southern of India Railway.

2. The Engineering staff sanctioned up to this date is as follows :—

- 1 Chief Engineer.
- 2 First Class Assistant Engineers.
- 4 Third do. do.
- 2 Engineering Assistants.

but with a view to organizing the staff in three surveying parties, the Chief Engineer requests that the staff may in future be the following :—

- 1 Chief Engineer.
- 2 First Class Assistant Engineers.
- 2 Second do. do.
- 2 Third do. do.
- 3 Engineering Assistants.

and the estimate, as now revised, provides accordingly.

The principal item calling for remarks is that providing for tents.

The original estimate of Rupees 38,125-9-4, sanctioned by the Government of India in their Order No. 867 R, *Vide* G. O., No. 1,360, dated 1st June 1870. of 18th May 1870, provided Rupees 5,968 for the purchase of tents. In the estimate herewith submitted a further sum of Rupees 4,695 is included. The Chief Engineer explains this as follows :—

“The four sets are in addition to what have been purchased, those that were furnished were of such exceedingly bad quality that four of them are worn out after a few months' use and are unserviceable, I have therefore asked sanction for other four sets, and propose to repair the damaged tents, if possible, for the use of the Engineering Assistants and Apothecaries. The sum named in my estimate is also higher than the price which was paid for the other tents, as I think it false economy purchasing tents of such bad quality, besides being unfair to the Engineers (who cannot have bungalows to live in) that they should have tents given them not sufficiently good to protect them from the weather.”

The custom has always hitherto been for the Engineers to be provided, in the first instance, with tents, which should be kept in repair, and, if necessary, be replaced at the cost of the Engineers themselves. In this instance, with a view to secure even reasonable care in the selection and maintenance of stores of this nature, I would recommend that the difference in cost between the tents required for the entire staff as now proposed, and those included in the estimates, should be disallowed as a charge against Capital, thus :—

Allowing for each of the Engineering staff

- 1 12 feet Subaltern's tent.
- 1 10 do. Bechoba do.
- 1 Baggage tent.
- 1 Necessary tent.

*Proceedings of the Madras Government, Public Works Department,
23rd May 1871.*

The cost at the enhanced rates now proposed by the Chief Engineer would be—

6 Sets at 955 Rupees	RS.	A.	P.
1 Set for the Chief Engineer	5,730	0	0
6 Bechobas for subordinate staff, at Rupees 200	1,200	0	0
1 Office tent	375	0	0
Total...	8,180	0	0

The amount provided in the original estimate is	5,963	0	0
And in the estimate now submitted	4,695	0	0
Total...	10,663	0	0

Leaving difference to be charged to Revenue ... 2,483 0 0

3. The revised estimate, as submitted by the Agent, provides for the amount expended up to the 31st December 1870, namely, Rupees 61,666-0-3; but three months having elapsed since this estimate was prepared the actual expenditure up to the end of the official year is now substituted, the total under this head being brought up to Rupees 79,542-12-6. For the same reason the Agent and Chief Engineer's Establishment, estimated for twelve months at Rupees 37,560, has been reduced to 28,170 (for nine months) from 1st April 1871.

The Engineering staff is provided for during six months in the Agent's estimate, and in a subsequent communication, owing to the recent orders of Government enlarging the field of the Company's operations, this period was proposed to be extended to twelve months from the 1st January.

The estimate, however, has been altered as now submitted to allow for nine months from 1st April, and a sum of Rupees 47,985 is entered.

The items for labour, etc., field and drawing instruments, furniture and contingencies, call for no alteration.

The amount allowed for tents, namely, Rs. 4,695, has been reduced by Rs. 2,483 (which sum I would recommend should be charged to Revenue) to Rs. 2,212.

4. The estimate for which I have now the honour to request sanction will therefore stand in abstract as follows:—

Amount expended up to the 31st March	RS.	A.	P.
Agent and Chief Engineer's Establishment for 9 months, at Rupees 3,130	79,542	12	6
Engineering staff for 9 months, at Rs. 5,331-10-8	28,170	0	0
Labour, etc....	47,985	0	0
Tents Rs. 4,695	1,700	0	0
„ 2,483			
Field and Drawing Instruments	2,212	0	0
Furniture	2,018	0	0
Contingencies	336	0	0
	1,000	0	0

Deduct amount sanctioned in G. O., No. 1,360, dated 1st June 1870 ... 1,62,963 12 6

Amount for which sanction is now requested... 38,125 9 4

1,24,838 3 2

*Proceedings of the Madras Government, Public Works Department,
23rd May 1871.*

CARNATIC RAILWAY COMPANY.

SOUTHERN EXTENSION.

ENGINEERING DEPARTMENT.

Estimate of cost of preliminary expenses in surveying and preparing working plans and estimates.

No. of Item.	No. of Persons.	Particulars.	Amount.	Total.	Former sanction.
			RS. A. P.	RS. A. P.	RS. A. P.
1	...	Amount expended by Messrs. Holloway and Dibblee on trial surveys, namely:—			
		Boring tools	237 10 4		
		Contingencies	2,133 7 7		
		Furniture	449 11 6		
		Office rent	240 0 0		
		Stores	3,081 15 2		
		Tents	6,159 0 0		
		Theodolites and Levels	760 0 0	13,061 12 7	
		Amount expended on salaries and batta as per pay bills up to 31st December 1870, namely:—			
		1870, March	2,914 14 11		
		„ April	3,702 14 6		
		„ May	3,845 11 2		
		„ June	4,428 5 10		
		„ July	4,985 15 10		
		„ Aug.	5,082 7 2		
		„ Sept.	6,216 9 8		
		„ Oct.	7,637 9 10		
		„ Nov.	5,267 0 3		
		„ Dec.	4,522 10 6	*48,604 3 8	
				61,666 0 3	
3	...	Proportion of Agent's Establishment	900 0 0		
4	1	Chief Engineer's salary and tentage	1,200 0 0		1,105 0 0
5	1	Manager	100 0 0		100 0 0
6	1	Native Assistant	80 0 0		
7	2	Clerks	100 0 0		50 0 0
8	1	Cash-keeper	50 0 0		60 0 0
9	1	Head Draughtsman	150 0 0		
10	4	Draughtsmen	360 0 0		430 0 0
11	1	Apothecary's salary and horse allowance	65 0 0		65 0 0
12	6	Peons and Lascars	56 0 0		42 0 0
13	1	Sweeper	3 0 0		
14	1	Scavenger	2 0 0		
15	2	Cash peons	14 0 0		5 0 0
16	...	Office rent	50 0 0		14 0 0
					50 0 0
		For one month...	3,130 0 0		
		For twelve months...		37,560 0 0	
17	2	1st Class Assistant Engineer's salary and tentage...	1,696 10 8		1,566 10 8
18	2	2nd Class do. do.	1,264 0 0		
19	2	3rd Class do. do.	930 0 0		900 0 0
20	3	Engineering Assistants do.	636 0 0		424 0 0
21	3	Apothecary's salary and horse allowance	195 0 0		

Proceedings of the Madras Government, Public Works Department,
23rd May 1871.

Estimate of cost of preliminary expenses, etc.—(Continued.)

No. of Item.	No. of Persons.	Particulars.	Amount.	Total.	Former sanction.
			RS. A. P.	RS. A. P.	RS. A. P.
22	4	Clerks and Interpreters, at Rupees 40 each ...	160 0 0		
23	36	Lascars, at Rupees 7 each ...	420 0 0		
24	6	Tappal Runners, at Rs. 5 each.	30 0 0		
		For one month...	5,331 10 8		
		For six months...		31,990 0 0	
		Labour.			
		Digging trial pits, etc. ...	200 0 0		
		Do. additional of alternative line adopted ...	400 0 0		
		Materials, bamboos, and pegs.	600 0 0		
		Medicines ...	200 0 0		
		Stationery ...	300 0 0		
		Tents.			
		1 14 feet square single poled For Chief	705 0 0	1,700 0 0	
		1 Baggage Tent* Engineer.	135 0 0		
		1 Necessary Tent	35 0 0		
		4 12 feet square Subalterns' at Rupees 585 ...	2,340 0 0	875 0 0	
		4 10 feet Bechobas, at Rupees 200 ...	800 0 0		
		4 Baggage Tents, at Rs. 135	540 0 0		
		4 Necessary Tents, at Rs. 35	140 0 0		
		Field and Drawing Instruments.		3,820 0 0	
		4 Theodolites ...	960 0 0		
		2 Levels ...	360 0 0		
		5 Prismatic Compasses ...	125 0 0		
		4 Levelling staves ...	120 0 0		
		2 Chains with Arrows(100 feet)	27 0 0		
		36 Ranging Rods of Trincomallee wood ...	36 0 0		
		3 Boxes superior Mathematical Instruments ...	180 0 0		
		3 Colour Boxes tinned and japanned ...	9 0 0		
		6 Cakes, Cobalt ...	12 0 0		
		6 „ Lake ...	3 0 0		
		6 „ Sepia ...	12 0 0		
		6 „ Burnt Sienna ...	3 0 0		
		6 „ Gamboge ...	3 0 0		
		6 Sticks Indian Ink...	12 0 0		
		4 Steel, straight edges, 4 feet long ...	34 0 0		
		6 Sets Ebonite set squares, 3 each ...	30 0 0		
		6 66 feet measuring tapes...	30 0 0		
		6 100 feet do. do. ...	47 0 0		
		1 Gross Mapping Pens ...	15 0 0		
		Furniture(Camp and Office.)		2,018 0 0	
		12 Chairs ...	60 0 0		
		6 Drawing boards, deal, 8' x 3' with tressels ...	90 0 0		

Proceedings of the Madras Government, Public Works Department,
23rd May 1871.

Estimate of cost of preliminary expenses, etc.—(Concluded.)

No. of Item.	No. of Persons.	Particulars.	Amount.	Total.	Former sanction.
			RS. A. P.	RS. P. P.	RS. A. P.
		6 Tin boxes with patent locks, 14 x 10 x 9 ...	60 0 0		
		2 Almirahs with drawers below to each ...	120 0 0		
		12 Tin cases of sizes for plans	6 0 0		
		Contingencies ...		336 0 0	
		*Amount quoted in original estimate ... 54,136 14 0		1,40,965 0 3	
		Less payments at Home on account of Agent and Engineering staff ... 5,532 10 4			
			48,604 3 8		

(Signed) J. T. FISHER,
Agent and Manager.

No. 416. ORDER THEREON, 23rd May 1871, No. 1,415.

RAILWAY, No. 55.

THE Government must remark, with reference to the item of "tents" in the estimate submitted by the Consulting Engineer with this letter, that the demand for four sets of new tents in lieu of some sanctioned only one year ago, on the ground that the former supply are of such exceedingly bad quality as to be now worn out, is so unsatisfactory that further explanation is necessary, and it is very clear that the Engineers did not give them fair treatment.

2. It is observed that each set cost Rupees 799, and understanding a set to comprise a 12 feet square Subaltern's tent, a 10 feet bechoba, a baggage tent, and a necessary tent, the Government are of opinion that the amount allowed was exceedingly liberal, and that four tents as above described of the very best quality would be procurable for that amount.

3. Major Prendergast will ascertain from the Commissary General the highest price paid in the open market for the several descriptions of tents of the best quality, which should guide him in resubmitting the estimate, upon the receipt of which and of detailed information as to the price paid for the tents in question and by whom they were purchased, the Government will decide to whom the responsibility attaches for what appears to be an expenditure that might have been altogether avoided.

(True Extract.)

(Signed) J. CARPENDALE, Colonel, R. E.,
Secretary to Government.

To the Acting Consulting Engineer for Railways.

Exd. S. T. Augustin.

CONSULTING ENGINEER'S OFFICE.

Railway Department.

No. 203

From

Consulting Engineer for Railways,

To

Secretary to Government,

Public Works Department,

Fort Saint George.

Sir,

I With reference to G.O.
No. 2255, of 19th September 1870,
have the honor to forward for
the sanction of the Government
of India, the accompanying copy
of Estimate showing the pro-
bable cost of completing the
survey and estimates for a
narrow gauge line from Madras
to Pondicherry, in accordance
with the instructions contained
in

in G. O. No. 910, of 27th March 1871.
and for the line that will be
required to form a junction with
the Great Southern of India
Railway.

2 The Engineering staff
sanctioned up to this date is
as follows:—

1. Chief Engineer.
2. First Class Assistant Engineer.
4. Third _____ to _____
- 2 Engineering Assistants.

but with a view to organizing
the staff in three surveying
parties, the Chief Engineer
requests that the staff may
in future be like following:—

51. Chief Engineer 90
 52. First Class Asst. Engineer
 2. Second _____ to _____
 2. Third _____ to _____
 - 3 Engineering Assistants
- and the estimate, as now revised,
provides accordingly.

The principal item
calling for remarks, is that
providing for tents.

The original estimate of
Rs: 38,125-9-4 sanctioned by
the Government of India in
their order No. 8 by P.C. of 18th
May 1870, provided Rs: 5,768-
-0-0 for the purchase of tents.
In the estimate herewith
submitted a further sum
of Rs: 4,675 is included.

Vide G. O. No.
1360 of 1st Jan 73.

The

The Chief Engineer explains
this as follows:-

The four sets are in
addition to what have been
purchased, those that were fur-
nished were of such exceedingly
bad quality that four of them
are worn out after a few months
use and are unserviceable, I
have therefore asked sanction
for order four sets, and pro-
pose to repair the damaged
tents if possible, for the
use of the Engineering Assistants
and Apothecaries. The sum-
mand in my estimate, is
also higher than the price
which was paid for the
other tents, as I think it
false

10-3
"false economy purchasing tents
of such bad quality, besides
being unfair to the Engineers
(who cannot have Bengalows to
live in) that they should have
tents given them not sufficiently
good to protect them ^{from} the weather."

The custom has always
hitherto been, for the Engineers
to be provided in the first
instance with tents, which
should be kept in repair,
and if necessary be replaced,
at the cost of the Engineers
themselves. In this instance,
with a view to secure even-
reasonable care in the selection
and maintenance of stores of
the

1. the nature, I would recommend
 that the difference in cost,
 between the tents required for
 the entire staff as now proposed,
 and those included in the
 2. estimates, should be disallowed
 as a charge against Capital.
 Thus:

Allowing for each of the
Engineering staff.

1—12 feet Subaltern tent

1—10—4—1 Bee-hive —

1—Baggage tent

1—necessary.

The cost at the enhanced rates
now proposed by the Chief
Engineers would be.

6 sets at 955 No. ————— 5,730-0-0
 1— for the Chief Engineer — 875-0-0
 6 Bee-hives for Subordinate
 Staff at No. 200 — 1,200-0-0
 1. Office tent ————— 375-0-0

134
Total 8180-0-0

The amount provided
 in the original estimate 5968-0-0

and in the estimate now
 submitted 4695-0-0

Total 10,663-0-0
 leaving difference to be
 charged to Revenue 2483-0-0

3. The revised estimate
 as submitted by the Agent,
 provided for the amount ex-
 pended up to the 31st December
 1870; viz No. 61,666-0-3, but
 three months having elapsed
 since the estimate was prepared
 the actual expenditure up
 to the end of the official
 year is now substituted.
 The total under this head
 being brought up to No.
 79,542-12-6 for the

same

same season, the Agent and
Chief Engineer's establishment
estimated for 12 months at Rs.
37,560 has been reduced to
28,170 (for nine months) from
1st April 1871.

The Engineering staff
is provided for, during 12 months
in the Agent's estimate, and
in a subsequent communication,
owing to the recent orders of
Government enlarging the
field of the Company's opera-
tions, this period was pro-
posed to be extended to 12
months from the 1st January.

The estimate however
has been altered as now
submitted

150 8
submitted to allow for 9 months
from 1st April and a sum
of Rs: 47,985-0-0 is entered. <sup>mer-
tion</sup>

The items for Labor for
Field and Drawing Instruments,
Furniture and Contingencies
call for no alteration.

The amount allowed for
rents, viz Rs: 4,695-0-0 has
been reduced by Rs: 2,483-0-0
(which sum I would recommend
should be charged to Revenue)
to Rs: 2,212-0-0.

4. The estimate for which
I have now the honor to re-
quest sanction will therefore
stand, in abstract as follows:

Amount

Amount expended up to the 31st March — 79,542- 12- 6

Regent and Chief Engineer's
Establishment for 9 months } 28,170- 0- 0
at 100: 8,130- 0- 0

Engineering staff for 9 months } 47,985- 0- 0
at 100: 5,331- 10- 8

Labour for ————— 1700- 0- 0
Tools ————— 4,695- 0- 0

2488- 0- 0
2,212- 0- 0

Field and Drawing Instruments — 2,018- 0- 0
Furniture ————— 336- 0- 0

Contingencies ————— 1000- 0- 0

Deduct amount sanctioned in L. O.
No 1360 dated 1st June 1871 } 38,125- 9- 4

Amount for which sanction is
now requested ————— 1,24,828- 3- 2

Madras } I have the honour to be
9th May } Yours most obedt Servt
1871 } Chubbendyall. Major 186
By: Comd: Surg: for 1871

No 1st June / 70 No 4-2
 " 19th Sept - 326-327
 " 27th March / 11 - 645-647-

B. H. 1871 Dept
 P. W. Department.

From *S. 2128.*
 The Consulting Engineer
 for Railways,

To
 The Secretary to Government,
 P. W. Department,
 Fort St. George.

Dated *27* May 1870.
 Received *11*
 Enc. 1. No. 703

I certify that
 sanction of Govt.
 to the General Est.
 of the Survey Department
 has been granted.
 C. P. D.
S. 1415-23 May/71.

No 418
617 May/71 On 22nd

Carnatic Railway Company
 Southern Extension.
 Engineering Department.
 Estimate of Cost Preliminary Expenses in Surveying and
 preparing Working Plans and Estimates.

No. of item	No. of Person	Particulars	Amount	Total	Sanction
1		Amount expended by Messrs. Bellamy and Dilbeck on Trial surveys vizt.			
		Boring Tools	237. 10. 4		
		Contingencies	2133 7 7		
		Furniture	1449 11 6		
		Office rent	240 . . .		
		Stores	3081 15 2		
		Tents	6159 . . .		
		Theodolites and Levels	760 . . .	13061 12 7	
		Amount expended on Salaries and Wages as per Pay Bills up to 31 December 1870 vizt.			
		1870. March	2917 14 11		
		April	3702 14 6		
		May	3815 11 2		
		June	4128 5 10		
		July	4985 15 10		
		August	5082 7 2		
		September	6216 9 8		
		October	7637 9 10		
		November	5267 . 3		
		December	4522 10 6	138601 3 8	61666 . 3
3		Proportion of Agents establishment	900 . . .		
4	1	Chief Engineer's salary and Tentage	1200 . . .		1105 . . .
5	1	Manager	100 . . .		10 . . .
6	1	Native Assistant	80 . . .		
7	3	Clerks	100 . . .		50 . . .
Carried forward			2380 . . .	61666 . 3	

No. of item	No. of Persons	Particulars	Amount	Total	Remarks
8	1	Cook keeper	Brought forward	2,300	6,666
9	1	Head Draughtsman		50	10
10	4	Draughtsmen		150	
11	1	Apothecary salary & Horse allowance		360	
12	8	Peons and Lascars		65	
13	1	Sweeper		56	
14	1	Scavenger		3	
15	2	Cash peons		2	
16		Office rent		114	
				50	
		For one month	3,130		
		For twelve months		37,560	
17	2	1st class Assistant Engineer's salary & Tentage		16,76108	
18	2	2nd do		1364	
19	2	3rd do		930	
20	3	Engineering assistants do		636	
21	3	Apothecary's salary & Horse allowance		1,195	
22	4	4 clerks and Interpreters at Rs 40 each		160	
23	30	Lascars at Rs 7 do		420	
24	6	Tappal runners at Rs 5 do		30	
		For one month	5,331 10 8		
		For six months		31,980	
<u>Labor</u>					
		Digging Trial pits &c		200	
		do additional of alternative line adopted		1,100	
		Materials, Bamboos and Ropes		600	
		Medicines		200	
		Stationery		300	
		<u>Tents</u>			
		1. 11 ft square single pole		705	
		1. Baggage Tent		135	
		1. Necessary Tent		35	
		4. 12 ft square Subalterns @ Rs 585		875	
				23,110	
				23,140	

Particulars	Amount	Total
Brought forward	2340	133771.3
4. 10-ft Beechboxes at Rs 200	800	
4. Baggage Tent at Rs 135	540	
4. Necessary Tent at Rs 35	140	3820
<u>Field & Drawing Instruments.</u>		
1. Theodolites	960	
2. Levels	360	
5. Prismatic Compasses	125	
14. Levelling staves	130	
3. Chains with arrows (100 ft)	27	
36 Panging Rods of Trincomallee wood.	36	
3. Boxes superior mathematical Instruments	180	
3. Coler Boxes Tinned & Tappanned.	9	
6. Lakes Cobalt	12	
6. " Lake	3	
6. " Sepia	12	
6. " Burnt Sienna	3	
6. " Gamboge	3	
6. Stick Indian Ink.	12	
4. steel straight edges 11 ft long.	34	
6. sets Ebony set squares 3 each	30	
6. 6 ft measuring Tapes	30	
6. 100 ft " "	47	
1. Grass mapping pen	15	2018
<u>Furniture / Camp / Office /</u>		
12. Chairs	60	
6. Drawing boards deal 8x3 with Tressels	90	
6. Tin Boxes with patent locks 14x10x9	60	
2. Almshouses with drawers below to each	120	
12. Tin Cases of sizes for plane.	6	336
<u>Contingencies</u>		1000
* Amount quoted in original estimate 54,136. 14. 0		160965.3
Less Payments at Home on account of	5532. 10. 11	
Agent and Engineering Staff	148,604. 3. 8	
Signed / J. T. Fisher		
Agent & Manager / Rao		

/ True Copy /

Edward S. Rogers to Major (23)

Eng. Exam. Engineer for Railways.

10/12/2018

No 1415

Rh. D.

Proceedings of the Madras Government
under date the 23rd Aug/71.
Read the following.

From,

The Exlone Engineer } (18. E. & 203 & 9 May 71)
for Railways }

The Government must remark, with reference to the item of "tents" in the estimate submitted by the Hon^{ble} Engineer with this letter, that the demand for 4 sets of new tents in lieu of some sanctioned only one year ago on the ground that the former supply are of such exceedingly bad quality as to be now worn out, is so unsatisfactory that further explanation is necessary and it is very clear that the ... Engineers

Engineers did not give them
fair treatment.

It is observed that
each set cost Rs 499, and
understanding a set to
comprise a 12 ft square
subaltern's tent, a 10 ft
bichoba, a baggage tent,
and a necessary tent,
the Government are of
opinion that the amount
allowed was exceedingly
liberal, and that 4 tents
as above described of the
very best quality would
be procurable for that
amount.

Major Prendergast
will ascertain from the
Commissary General
the highest price paid
in the open market
for

and of detailed information as
to the price paid for the tents in
question and by whom they
were purchased.

259 10
for the several descriptions
of tents of the best quality,
which should guide him
in re-submitting the
estimate, upon the receipt
of which the Government
will decide to whom the
responsibility attaches
for what appears to be
an expenditure that
might have been altogether
avoided.

J.

25
To.

The Comd Engineer for
Railways.

h-s-dept 23/5/71
P-Cm 6/6/71

287
G.O. of 1871 Orders.

PUBLIC WORKS.

To the Consulting Engineer
for Railways.

Dated

Recd.

Exd. /

G. O. 23 May 1871. No. 1415.

Nos. 415 & 416

[Faint handwritten text, possibly a letter or report, mostly illegible due to fading and bleed-through.]