M.R.O. 1—77,006—8-6-37.

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2734-35	Press / Mis.
261-63	
Dated 15-11-	1870.

Not to be folded or roughly handled

No. 261. Read the following letter from the Acting Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 13th October 1870, No. 405:—

I HAVE the honour to submit the Budget Estimate for 1871-72 of State expenditure and of expenditure from Guaranteed Capital on the Madras, the Great Southern, and the Carnatic Railways, and of probable revenue receipts and expenditure.

2. *Controlling Establishment.*—The estimate for the Establishment exceeds that for 1870-71 by Rupees 2,077. The excess arises from the entry of 600 Rupees, instead of Rupees 180, for office contingencies, according to the sanction given in the current year for the higher rate of 50 Rupees a month in G. O., No. 1,048, dated 21st April 1870; from the higher Military rank of the present Examiner of Accounts; and from the higher share of house-rent consequent on the abolition of one of the Executive Engineer's offices at the Presidency.

3. *Compensation for Land.*—The total estimated amount for compensation to be paid for land for each Railway is as follows:—

	RS.
Madras Railway	65,145
Great Southern of India Railway	66,450
Carnatic Railway	60,000

On the Madras Railway the expenditure will be chiefly for land required for the Neilgherry branch, on which account the disbursements during the current year are estimated at Rupees 20,000, and the balance Rupees 49,895, during 1871-72.

No reliable information has been as yet obtained regarding the cost of land for the extension of the Great Southern of India Railway, and for the Carnatic Railway; the figures entered in the accompanying statement are therefore only approximate, being calculated from the probable areas of wet and dry land that are likely to be taken up.

MADRAS RAILWAY.

4. The total estimated outlay for 1871-72, from Guaranteed Capital, stands thus:—

	RS.
Gross advances	27,04,000
Less refunds	13,20,000
Net advances	13,84,000

The estimate of gross advances, as forwarded by the Agent, amounts to Rupees 27,51,031; but this has been reduced in this office to Rupees 27,04,000. One item of construction, Rupees 6,586, has been struck out, as the work is chargeable to Revenue, and the allotment of Rupees 1,63,006 for "minor works on lines open more than two years" is reduced to Rupees 1,40,561.

The item of Contingencies is altered from 20,000 Rupees to 12,000 Rupees, and Tools and Plant from 22,000 to 12,000 Rupees.

The Agent, in reply to my remarks that the items noted above appear to be excessive, explained that the allotment proposed for minor works is composed of Rupees 78,832 for the Engineering Department, and Rupees 84,174 for the Locomotive Department. I have, however, considered the total as somewhat high, and reduced it by Rupees 22,445. The reserve to meet the unforeseen requirements on lines open more than two years is estimated at Rupees 1,19,000; but this sum comprises Rupees 92,000 for the Engineering Department, and Rupees 27,000

for the Locomotive Department. Explanation is given by the Agent that under Contingencies as much as Rupees 12,000 has been expended in the last half-year; I think, however, this expenditure was exceptional, and that for the item Establishment, including contingencies, Rupees 3,22,000 may safely be substituted for Rupees 3,30,000.

Explanation is further given by the Agent that his item for Tools and Plant, 22,000 Rupees, is intended to cover expenditure on the purchase of tools, etc., in this country, reckoned at about 1 per cent. on the expenditure on construction. As, however, tools are generally issued from the stores, I am of opinion that Rupees 12,000 is a sufficient sum to set down under the head Tools and Plant.

5. The regular estimate of net advances for the current year, after deducting the amount of probable credits to the Capital Account for sale of proceeds of stores, and value of stores used on Revenue purposes, amounts to Rupees 28,12,148. This estimate is based on the actual payments in the first five months of 1870-71, April to August.

6. The expenditure during the year 1871-72 will be chiefly upon the new Central Station at Madras, the Neilgherry branch line, the Raichore Station, the maintenance of line from Ghooty to Kosgee, and the provision of additional rolling stock; the anticipated opening of the line to Raichore and Bellary rendering the latter necessary.

7. The per-centage of working expenses on the Madras Railway, compared with gross receipts for the last five half-years, has been as follows:—

	South-West Line.	North-West Line.	Average.
First-half of 1868	42·95	31·27	37·11
Second-half of ,, ...	44·93	37·72	41·32
First-half of 1869	45·45	40·35	42·90
Second-half of ,, ...	48 62	40·85	44·73
First-half of 1870	49·03	56·60	52 81

8. The per-centage of the gross traffic earnings expected to be absorbed by the working expenses, during 1871-72, is estimated by the Railway authorities at 56·43. This is somewhat less than the per-centage in the regular estimate for 1870-71, namely, 58·76. However, on examining the detailed estimate of Revenue expenditure, the expenses under Abstracts B. and D. have seemed to be unnecessarily high, and I have reduced this detailed estimate from 34,42,000 Rupees to Rupees 32,52,400. The working expenses become then 53·32 per cent. of the gross receipts, which is still a higher rate than the averages for the last five half-yearly periods.

9. The gross earnings realised in the first five months of 1870-71 (April to August) amounted to Rupees 21,78,565, and allowing for an expansion of traffic from the opening of the North-West Line from Ghooty to Kosgee, the estimate for the present year is taken at Rupees 53,50,000

10. The regular estimate of working expenses for 1870-71, amounting to Rupees 31,43,624, is obtained by adding Rupees 15,61,124, the amount of actual expenditure in the first-half of the year to Rupees 15,82,500, the estimated expenditure for the second-half of the year, according to the half-yearly Revenue Estimate, which has lately been drawn up for the first time.

GREAT SOUTHERN OF INDIA RAILWAY.

11. The estimate of expenditure from Guaranteed Capital on the Great Southern of India Railway, as furnished by the Agent, amounts to	RS. 20,70,300
Less refunds	1,90,000
Net ..	18,80,300

Almost the whole of the estimated outlay will be on the works of construction of the Southern Extension, from Trichinopoly to Tuticorin, and the provision of rolling stock in connection therewith.

No entry has been made for "minor works." The Agent states that the minor works now in hand are expected to be completed before the commencement of the next omcial year, and that he knows of none others likely to be put in hand; and I think the total amount asked for in Form B., Rupees 19,75,300, is sufficient to cover any unexpected demands for minor works.

12. The regular estimate for the current year 1870-71, deducting the amount of probable credits to the Capital Account for sale proceeds of stores, and value of stores used on Revenue purposes, amounts to Rupees 2,69,150. This calculation is made from the payments during the first five months of the year. The excess over the Budget Estimate for 1870-71 (Rupees 50,000) is caused by expenditure on the Tuticorin Extension, which was not anticipated when the estimate for the current year was prepared.

13. The per-centage of working expenses on the gross receipts for the last five half-years has been as follows:—

First-half of 1868	46·86
Second-half of ,, ...	44·85
First-half of 1869	62·24
Second-half of ,, ...	64·50
First-half of 1870	61·15

14. The working expenses for 1871-72 are calculated by the Agent at 60 per cent. of the gross traffic earnings, and I think this may be accepted.

15. The regular estimate for the present year, calculated from the actual expenditure in the first-half of 1870-71, and from the half-yearly estimate of Revenue expenditure for the second-half of the year, amounts to Rupees 5,30,674.

	RS.
First-half of 1870-71	2,61,574
Second-half of ,, ...	2,69,100
Total...	5,30,674

The expenses of the present year thus absorb 66·33 per cent. of the earnings;

CARNATIC RAILWAY COMPANY.

16. The estimated expenditure from Guaranteed Capital during 1871-72 amounts to ... ... Rs. 9,03,000
Less refunds 2,59,000
Net... 6,44,000

The Agents have set down in their estimate Rupees 11,85,000; but considering that the undertaking has to be started from the beginning, I have thought it advisable to reduce that amount considerably.

The deduction of Rupees 2,59,000 is made from the estimate of payments from treasury, on the supposition that the property of the narrow guage line may be sold to the Mysore Government.

17. The gross earnings during 1871-72 have been estimated by the Secretaries and Agents at Rupees 42,000, and the working expenses at Rupees 32,000. The regular estimate, based upon the receipts in the first five months of the year, give Rupees 40,427 as the gross earnings for the year 1870-71, and the estimate of Rupees 42,000 for 1871-72 appears not to be excessive. But as the regular estimate of Revenue expenditure for the present year amounts to Rupees 28,954, I do not see the necessity of entering so much as 32,000 Rupees as the amount of working expenses in next year, and have reduced that sum to Rupees 30,000.

18. The amounts requiring the sanction of the Government of India are:—

State Expenditure. Rs.

Controlling Establishment (in round numbers)	...		68,400
For purchase of land	do.	...	1,91,600
	Total	...	2,60,000

Expenditure from Guaranteed Capital in India.

Madras Railway		27,04,000
Great Southern of India Railway		20,70,300
Carnatic Railway		9,03,000
		56,77,300
Deduct receipts by sale of stores, etc., to be credited to Capital		17,69,000
	Balance ...	39,08,300
The traffic earnings will be from the—		
Madras Railway		61,00,000
Great Southern of India Railway		8,63,000
Carnatic Railway		42,000
		70,05,000
Deduct working expenses on all the Railways	...	38,06,400
	Net Revenue...	31,98,600

Proceedings of the Madras Government, Public Works Department, 15th November 1870.

MADRAS RAILWAYS.

Detail of Estimate of State Expenditure on account of Railways for the year 1871-72.

ABSTRACT.

I. Establishment (in round numbers) ... ... Rs. 68,400
II. Purchase of land do. ... ... ,, 1,91,600
Total Rupees .. 2,60,000

Number. 1870-71.	Number. 1871-72.	Particulars.	Salary of Office. Minimum.	Salary of Office. Annual increment.	Salary of Office. Maximum.	Estimate 1871-72. Per mensem.	Estimate 1871-72. Per annum.	Estimate 1871-72. Total.	Estimate 1870-71. Charges per annum.
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1	1	Consulting Engineer for Railways ...	1,560 0 0			2,000 0 0	24,000 0 0	24,000 0 0	24,000 0 0
		Military Pay proper	140 0 0						
1	1	Deputy Consulting Engineer for Railways...	600 0 0			1,093 10 0	13,123 8 0	13,123 8 0	13,123 8 0
		Military Allowance...	293 10 0						
		House-rent ...	60 0 0						
		Military Pay proper	140 0 0						
1		Examiner of Railway Accounts ...	325 0 0			1,065 14 6	12,790 14 0	12,790 14 0	11,388 8 0
		Military Allowance, Staff Corps pay ...	640 14 6						
		House-rent ...	100 0 0						
1	1	Uncovenanted Assistant ...				300 0 0	3,600 0 0	3,600 0 0	3,600 0 0
1	1	Second Grade Accountant...				250 0 0	3,000 0 0	3,000 0 0	3,000 0 0
4	4	Clerks, at Rs. 15, 20, 30, and 70...				135 0 0	1,620 0 0	1,620 0 0	1,620 0 0
3	3	Accountants at Rs. 40, 60, and 100...				200 0 0	2,400 0 0	2,400 0 0	2,400 0 0
1	1	Draughtsman				50 0 0	600 0 0	600 0 0	600 0 0
1	1	Indexer				50 0 0	600 0 0	600 0 0	600 0 0
10	10	Peons and others, one at Rs. 5, seven at Rs. 7, one at Rs. 8, and one at Rs. 10½.				72 8 0	870 0 0	870 0 0	870 0 0
		House-rent				85 0 0	1,020 0 0	1,020 0 0	765 0 0
		Add for travelling allowances of Consulting Engineer, Deputy Consulting Engineer, and Examiner of Railway Accounts ...				350 0 0	4,200 0 0	4,200 0 0	4,200 0 0
		Office expenses and contingencies				50 0 0	600 0 0	600 0 0	180 0 0
		Total... ...				5,702 0 6	68,424 6 0	68,424 6 0	66,347 0 0

(Signed) H. L. PRENDERGAST, Captain, R.E.,
Acting Consulting Engineer for Railways.

MADRAS,
13th October 1870.

II.—PURCHASE OF LAND.

Particulars.	Amount of Estimate.	Computed payments to 31st March 1871.	Estimate 1871-72.
MADRAS RAILWAY.	RS.	RS.	RS.
Chingleput District	1,000	.....	1,000
Salem do.	2,750	.....	(a) 2,750
(a) Compensation for lands taken up for Railway purposes ... ... RS. A. P. 482 2 9			
Compensation for loss of crops on the above land 4 12 6			
For reclaiming certain portions of lands which have become unfit for cultivation by the other portions being taken for Railway purposes 180 14 7			
On account of loss of revenue owing to the parties not having been put in possession of the land to be given in exchange for that taken for Railway purposes 2,082 2 2			
Total... 2,750 0 0			
Coimbatore District	69,895	(b) 20,000	(b) 49,895
(b) From Poothanoor Railway station to Coimbatore, 4 miles, through paddy-fields and garden (orchard) lands 38,500 0 0			
From Coimbatore to Goodalore, through garden lands and valuable punjah cultivation, 11 miles 20,931 0 0			
From Goodalore to Karamuday, through garden lands and valuable punjah cultivation, 5 miles 7,134 0 0			
From Karamuday to Meetapolliem, through punjah cultivation, 7 miles 3,330 0 0			
Total ... 69,895 0 0			
Cuddapah District	2,000	.....	(c) 1,500
(c) Compensation likely to be disbursed on account of the lands already taken up for Railway purposes.			
Bellary District	1,000	.....	10,000
Total...	76,645	20,000	65,145
GREAT SOUTHERN OF INDIA RAILWAY.			
Trichinopoly District...	8,000	7,000	(d) 13,000
(d) Forty-two miles of land, 62 yards wide on an average, for the Great Southern of India Railway Erode Extension ... 7,000 0 0			
Land required for the above Railway, on account of the proposed Tuticorin Extension... ... ... 6,000 0 0			
Total... 13,000 0 0			

II.—PURCHASE OF LAND.—*(Concluded.)*

Particulars.	Amount of Estimate.	Computed payments to 31st March 1871.	Estimate 1871-72.
	RS.	RS.	RS.
Tanjore District for Erode Extension	1,59,955	1,46,505	13,450
Madura do. for Tuticorin do.	32,000	.....	25,000
Tinnevelly do. for do. do.	20,000	... ..	15,000
Total...	2,19,955	1,53,505	66,450
CARNATIC RAILWAY.			
North Arcot District	25,000	.....	20,000
South do. do.	54,000	.....	40,000
Total...	79,000	.....	60,000

SUMMARY.

	RS.
Madras Railway	65,145
Great Southern of India Railway	66,450
Carnatic Railway	60,000
Total...	1,91,595

MADRAS,
13th October 1870.

(Signed) H. L. PRENDERGAST, Captain, R.E.,
Acting Consulting Engineer for Railways.

APPENDIX C.

Estimate of Railway transactions as Disbursements or Receipts of the Public Works Department for 1871-72.

I.—EXPENDITURE FROM GUARANTEED CAPITAL.

	1871-72.			1870-71.	Regular Estimate 1870-71.
	English.	Indian.	Total.		
MADRAS RAILWAY.	RS.	RS.	RS.	RS.	RS.
Payments from Government Treasuries.					
1. Cash advances for construction	...	26,96,000			
2. Customs duty on Stores ...	...	8,000			
3. Payments to Revenue ...	...	...	27,04,000	42,00,000	38,16,000
Receipts into Government Treasuries.					
1. Shares paid in India ...	...	...			
2. Refunds, etc.	...	1,25,000			
3. Sale proceeds of Stores ...	...	11,95,000		13,00,000	10,03,852
4. Payments from Revenue ...	...		13,20,000		
Net payments from Government Treasuries ...	...	...	13,84,000	29,00,000	28,12,148

APPENDIX C.—(*Continued.*)

	1871-72.			1870-71.	Regular Estimate 1870-71.
	English.	Indian.	Total.		
GREAT SOUTHERN OF INDIA RAILWAY.	RS.	RS.	RS.	RS.	RS.
Payments from Government Treasuries.					
1. Cash advances for construction	...	19,75,300			
2. Customs duty on Stores ...	...	15,000			
3. Payments to Revenue ...	...	80,000			
			20,70,300	2,35,000	4,43,191
Receipts into Government Treasuries.					
1. Shares paid in India ...	...	...			
2. Refunds, etc.	...	...			
3. Sale proceeds of Stores ...	...	10,000			
4. Payments from Revenue ...	...	1,80,000			
			1,90,000	1,85,000	1,74,041
Net payments from Government Treasuries ...	...	...	18,80,300	50,000	2,69,150
CARNATIC RAILWAY.					
Payments from Government Treasuries.					
1. Cash advances for construction	...	9,03,000			
2. Customs duty on Stores ...	...	...			
3. Payments to Revenue ...	...	...			
			9,03,000	...	38,236
Receipts into Government Treasuries.					
1. Shares paid in India ...	...	...			
2. Refunds, etc.	...				
3. Sale proceeds of Stores ...	...	2,59,000	2,59,000	...	18,479
4. Payments from Revenue ...	...				
Net payments from Government Treasuries ..	...	...	6,44,000	...	19,757

II. REVENUE ACCOUNT.

	Gross Earnings.				Working expenses.				Net Revenue.				Per-centage of working expenses			
	1871-72.	1870-71.			1871-72.	1870-71.			1871-72.	1870-71.			1871-72.	1870-71.		
		Budget Estimate.	Regular Estimate.			Budget Estimate.	Regular Estimate.			Budget Estimate.	Regular Estimate.			Budget Estimate.	Regular Estimate.	
	RS.	RS.	RS.		RS.	RS.	RS.		RS.	RS.	RS.					
Madras Railway	61,00,000	68,00,000	53,50,000		32,52,400	29,00,000	31,43,624		28,47,600	39,00,000	22,06,376		53·33	42·65	58·76	
Great Southern of India Railway	8,63,000	8,50,000	8,00,000		5,21,000	4,25,000	5,30,674		3,39,000	4,25,000	2,69,326		60·71	50·00	66·33	
Carnatic Railway	42,003	55,000	40,427		30,000	43,000	28,954		12,000	12,000	11,473		71·43	78·18	71·62	

(Signed) H. L. PRENDERGAST, Captain, R. E.,
Acting Consulting Engineer for Railways.

MADRAS,
13th October 1870.

MADRAS RAILWAY.
Budget Estimate of 1871-72.
FORMS A. AND B.

FORM A.

Name of work, location, etc.	Amount of Estimate. Indian outlay.	English outlay.	Total.	Brief particulars of the work, its object, etc.
ENGINEER'S DEPARTMENT.	RS.	RS.	RS.	
Madras Terminal Station.				
Engine shed, Tank house, etc.	27,204	13,046	40,250	These are extra works required by the Locomotive Department at this station to meet increased traffic; entered in last budget, but will not be required until 1871-72.
Perambore Works.				
New Smithy	10,895	6,105	17,000	A necessary work in connection with the locomotive shops; entered in last budget, but will not be required until 1871-72.
1ST DIVISION, NORTH-WEST LINE.				
Watering arrangements at Reddipully.	7,802	2,698	10,500	Present supply of water insufficient; entered in last budget, but will not be required until 1871-72.
Do. at Wontimettah...	7,802	2,698	10,500	No watering arrangements in existence at this station; entered in last budget, but will not be required until 1871-72.
Locomotive requirements at Arconum, viz.:—				
Urinal and Privy for Native workmen RS. 1,000				
Three Bungalows for Europeans ... 10,800				
Locomotive Foreman's Office and Store... ... 1,197				
	12,997	...	12,997	Works found necessary by the Locomotive Department.
2ND DIVISION, NORTH-WEST LINE.				
Locomotive requirements at Ghooty, viz.:—				
Running Driver's Bungalow ... RS. 4,300				
Six Firemens' Bungalows ... 21,600				
Urinal and Privy for Native workmen 1,000				
	26,900	...	26,900	Do. do. do.
LOCOMOTIVE DEPARTMENT.				
Locomotives with Tenders...	5,000	3,50,000	3,55,000	To meet traffic requirements.
Passenger stock ...	64,450	1,84,281	2,48,731	Do. do.
Goods stock	98,480	5,74,282	6,72,762	Do. do.

MADRAS,
29*th August* 1870.

(Signed) J. CRAMP,
for Chief Accountant.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) R. B. ELWIN,
Agent and Manager.

(Signed) F. G. HANKIN, *Major,*
Examiner of Railway Accounts.

MADRAS,
13*th October* 1870.

(Signed) H. L. PRENDERGAST, *Captain, R.E.,*
Acting Consulting Engineer for Railways.

Proceedings of the Madras Government, Public Works Department,
15th November 1870.

FORM B.

Budget Estimate of Expenditure out of Guaranteed Capital on the Madras Railway during 1871-72.

Nature of work, &c.	Number and date of sanction.	Amount of Estimate, Indian Expenditure.	Estimated expenditure up to 31st March 1871.	Estimated expenditure in 1871-72	Total.
		RS.	RS.	RS.	RS.
Detail of works on the open line estimated to cost more than Rupees 10,000.					
ENGINEER'S DEPARTMENT.					
Madras Terminal Station.					
Engine shed, Tank house, etc. ...	Unsanctioned ...	27,204	.....	27,204	
Perambore Works.					
New Smithy ...	Do.	10,895	.....	10,895	
4th Division, South-West Line.					
Wire fencing with five strands for 5 miles of Railway between Shoranore and Perpengady.... ...	Schedule 2, 30th June 1870.	7,436	3,718	3,718	
Electric Telegraph.					
Renewing 410 miles of wooden poles with galvanized iron poles from Madras to Beypoor	Unsanctioned ...	30,264	10,000	20,264	
1st Division, North-West Line.					
Watering arrangements at Reddipully ...	Do.	7,802	.....	7,802	
Do. at Wontimettah.	Do.	7,802	.....	7,802	
Locomotive requirements at Arconum ..	Do.	12,997	.....	12,997	
2nd Division, North-West Line.					
Locomotive requirements at Ghooty ...	Unsanctioned ...	26,900	.....	26,900	
LOCOMOTIVE DEPARTMENT.					
Locomotive with tenders	Unsanctioned ...	5,000	.....	5,000	
Passenger stock. ...	Do.	64,450	17,055	47,395	
Goods stock... ...	Do.	98,480	37,809	60,671	
290 2nd class composite and 3rd class carriages to be fitted with sun shades ...	No. 779 of 12th March 1870.	16,520	5,600	10,920	
2,890 Waggons to be fitted with axle-box oil keeps... ...	No. 3,066 of 29th September 1868.	17,340	5,500	11,840	
10 Horse boxes ...	No. 272 of 22nd January 1870.	18,068	18,068	.....	
Total...	.....	3,51,158	97,750	2,53,408	

Budget Estimate of Expenditure, etc.—(Concluded.)

Nature of work, etc.	Number and date of sanction.	Amount of Estimate, Indian Expenditure.	Estimated expenditure up to 31st March 1871.	Estimated expenditure in 1871-72.	Total.
LOCOMOTIVE DEPARTMENT.—(*Continued.*)		RS.	RS.	RS.	
Minor Works... ...	.....	.....	.....	1,40,561	
Reserve to meet unforeseen requirements...	.....	....	.....	1,19,000	
Total on lines open for more than two years.	.....	3,51,158	97,750	5,12,969	5,12,969
Unopen lines and lines open less than two years.					
ENGINEER'S DEPARTMENT.					
South West Line.					
Madras Central Station...	Sanctioned 29th July 1867, 17th April 1868, and 2nd Oct. 1869.	6,24,613	5,22,866	1,01,747	
Altered and additional works	Unsanctioned... ...	29,254	9,113	20,141	
Neilgherry branch line and Stations ...	Do.	16,77,969	6,00,000	6,00,000	
Do. Electric Telegraph.	Do.	35,000	.....	35,000	
North West Line.					
Taudpatri to Ghooty, maintenance for two years	Amounts provided for in the sanctioned District Estimates for "Maintenance of Way and Works" at Rupees 3,000 per mile.	89,160	74,300	14,860	
Ghooty to Kosgee, do.		2,01,270	58,704	1,00,635	
Goondacul to Jolaradashy, do. ...		48,940	14,275	24,470	
Jolaradashy to Bellary, do. ...		41,550	20,775	20,775	
Kosgee to Raichoor, do.		77,120	38,560	38,560	
Raichoor Station ...	Unsanctioned ...	3,24,604	1,09,761	2,14,843	
Electric Telegraph.					
Ghooty to Raichoor ...	20th May 1867	32,973	25,973	7,000	
Junction to Bellary ...	Do.	11,532	7,532	4,000	
Total...	.....	31,93,985	14,81,859	11,82,031	
Reserve to meet unforeseen requirements....	.....	.....	.....	85,000	
Total on unopen lines and lines open less than two years. ...					
Establishments (includes 12,000 for Contingencies.) ...	.....	31,93,985	14,81,859	12,67,031	12,67,031
Stores...	.....	.....	.....		
Tools and Plant ...	.....	.....	.....	3,22,000	3,22,000
Total Estimated Cash Advances	.....	.....	.....	5,90,000	5,90,000
	.....	.....	.....	12,000	12,000
	.....	.....	.....	.....	27,04,000

MADRAS,
29th August 1870.

(Signed) J. CRAMP,
for *Chief Accountant.*

(Signed) F. G. HANKIN, *Major,*
Examiner of Railway Accounts.

(Signed) F. CHURCH,
Chief Auditor.

MADRAS,
13th October 1870.

(Signed) R. B. ELWIN,
Agent and Manager.

(Signed) H. L. PRENDERGAST, *Captain, R.E.,*
Acting Consulting Engineer for Railways.

MADRAS RAILWAY.

Budget Estimate of 1871-72.

Revenue Expenditure.

ABSTRACT.—A.

	RS.
1st.—Salaries, Office expenses, and General Superintendence ...	1,21,700
2nd.—Maintenance and renewal of permanent way	6,73,800
3rd.—Repairs of bridges, etc, wages and materials	1,09,500
4th.—Repairs of stations and buildings, wages and materials ...	78,000
5th.—Maintenance by contract	...
6th.—Unclassified expenditure	31,000
	10,14,000

ABSTRACT.—B.

1st.—General Superintendence	81,000
2nd.—Running expenses (wages connected with the working of locomotive engines)	2,29,500
3rd.—Fuel	4,92,300
4th.—Water	27,000
5th.—Oil, tallow, and other stores (expended on engines in work).	35,100
6th.—Maintenance and renewal of locomotive engines and machinery	3,74,400
7th.—Services of other lines	...
8th.—Unclassified expenditure	1,800
	12,41,100

ABSTRACT.—C.

1st.—General Superintendence	9,000
2nd.—Repairs and renewals of vehicles and machinery... ...	93,000
3rd.—Cleaning carriages and waggons and oiling	55,000
4th.—Unclassified expenditure	1,000
	1,58,000

ABSTRACT.—D.

1st.—Salaries, wages, etc...	3,73,500
2nd.—Fuel, lighting, water and general stores	54,000
3rd.—Clothing	7,200
4th.—Printing, Stationery, and Tickets	29,700
5th.—Horses, harness, vans, omnibusses, provender, etc., (including charges for delivery and collection of goods)	... 900
6th.—Miscellaneous expenses	...
7th.—Services of other lines	...
8th.—Unclassified expenditure	...
	4,65,300

ABSTRACT.—E.

1st.—Home expenditure	10,000
2nd.—Salaries of Indian management including offices	1,40,000
3rd.—Police	11,000
4th.—Advertising...	3,000
5th.—Electric Telegraph	50,000
6th.—Clearing accounts with other lines	...
7th.—Unclassified expenditure	6,000
	2,20,000

ABSTRACT.—G.

1st.—Law charges	1,500
2nd.—Compensation	500
3rd.—Rates and taxes	1,10,000
4th.—Contribution to Special Funds...	42,000
	1,54,000

SUMMARY.

			RS.
Maintenance of way, works, and stations	A...	...	... 10,14,000
Locomotive expenses	B...	...	... 12,41,100
Carriage and waggon expenses ...	C...	...	... 1,58,000
Traffic expenses...	D ..	...	... 4,65,300
General charges...	E...	...	... 2,20,000
Special and Miscellaneous expenditure	G...	...	... 1,54,000
		Total...	32,52,400

MADRAS,
29th August 1870.

(Signed) J. CRAMP,
For Chief Accountant.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) R. B. ELWIN,
Agent and Manager.

(Signed) F. G. HANKIN, Major,
Examiner of Railway Accounts.

MADRAS,
13th October 1870.

(Signed) H. L. PRENDERGAST, Captain, R.E.,
Acting Consulting Engineer for Railways.

GREAT SOUTHERN OF INDIA RAILWAY.

FORM A.

Schedule of Works estimated to cost more than Rupees 10,000 *each, which are likely to be under execution during the official year* 1871-72.

Name of work, location, etc.	AMOUNT OF ESTIMATE. Indian outlay.	English outlay.	Total.	Brief particulars of the work, its object, etc.
General Stores building, Negapatam.	15,438	13,067	28,505	For warehousing miscellaneous stores.
Coal sheds ... do.	28,035	1,965	30,000	For protecting stock of coal from sun and wind.
Carriage Shop building do.	4,386	13,807	18,193	For erecting and repairing additional rolling stock.
Wharf Wall ... do.	20,109	13,598	33,707	For landing material.
Siding to Golden Rock, Trichinopoly.	9,632	32,318	41,950	For carrying stone for Public Works Department.
	77,600	74,755	1,52,355	With the exception of the last item, the works estimated for are all extensions of existing accommodation rendered necessary by the increased work which will have to be performed when the Southern Extension is put in hand.

Proceedings of the Madras Government, Public Works Department, 15th November 1870.

FORM A.—(*Continued.*)

Name of work, location, etc.	AMOUNT OF ESTIMATE. Indian outlay.	English outlay.	Total.	Brief particulars of the work, its object, etc.
Rolling Stock.				
Locomotives 8	8,000	2,50,200	2,58,200	Required for working Railway Material up country, and for ballasting on the southern extension.
Break vans 7	7,525	11,725	19,250	
Open Goods trucks ... 60	15,000	75,900	90,900	
High sided do. ... 100	25,000	1,45,000	1,70,000	
Ballast do. ... 50	12,500	62,500	75,000	
	68,025	5,45,325	6,13,350	
Southern Extension.	10,00,000	.....	10,00,000	For works of construction along the line from Trichinopoly to Tuticorin. Plans and Estimates have not yet been completed.

NEGAPATAM,
14th September 1870.

(Signed) W. S. BETTS,
Agent.

MADRAS,
13th October 1870.

(Signed) H. L. PRENDERGAST, Captain, R.E.,
Acting Consulting Engineer for Railways.

GREAT SOUTHERN OF INDIA RAILWAY.

FORM B.

Budget Estimate of expenditure out of Guaranteed Capital on the Great Southern of India Railway during the official year 1871-72.

Nature of work.	Date of sanction.	Amount of Estimate, Indian expenditure.	Estimated expenditure up to 31st March 1871.	Estimated expenditure in 1871-72.	Total.
		RS.	RS.	RS.	RS.
Sanctioned works costing more than Rupees 10,000.					
Boiler Shop, Negapatam	6th December 1867 ...	33,308	31,308	2,000	
Boundary Walls, do.	6th October 1866	40,889	34,689	6,200	
	1st July 1868...	77,600	...	77,600	
Unsanctioned works as per Form A	... ...	8,580	...	8,580	
Reserve to meet unforeseen requirements	... ...				
Total on lines open for more than two years	... ...	...	...	...	94,380
Unopen lines, and lines open for less than two years.					
Southern Extension	... ...	10,00,000	...	10,00,000	10,00,000
Rolling Stock.					
Third class Carriages, 16	No. 8, M. R., 1870-71 ...	10,000	5,000	5,000	
Covered Goods trucks, 25	Do.	11,000	6,000	5,000	
Unsanctioned stock as per Form A.	... ...	68,025	...	50,920	60,920
Establishment...	... ...	4,20,000	...	4,20,000	4,20,000
Stores...	... ...	4,00,000	...	4,00,000	4,00,000
					19,75,300

NEGAPATAM,
14th September 1870.

MADRAS,
13th October 1870.

(Signed) W. S. BETTS,
Agent.

(Signed) H. L. PRENDERGAST, Captain, R.E.
Acting Consulting Engineer for Railways.

GREAT SOUTHERN OF INDIA RAILWAY.

REVENUE ACCOUNT.

Estimate of expenditure for the official year 1871-72, *prepared under the request detailed in Consulting Engineer's letters Nos.* 323 *and* 331.

	RS.	RS.
Maintenance of Way and Works	...	1,36,500
Salaries, Office expenses, and General Superintendence ...	25,200	
Maintenance and renewals of permanent way	1,06,300	
Repairs to bridges, etc.	2,000	
Repairs to stations and buildings	1,000	
Unclassified expenditure	2,000	
Locomotive Expenses	...	2,05,200
General Superintendence	22,600	
Running expenses	42,000	
Fuel	1,10,000	
Water	2,600	
Oil, tallow, and other stores	5,000	
Maintenance and renewals of engines	22,000	
Unclassified expenditure	1,000	
Carriage and Waggon Expenses	...	28,800
General Superintendence	2,200	
Repairs of vehicles and machinery	19,000	
Repairs of carriages and waggons and oiling	7,200	
Cleaning carriages and waggons	400	
Unclassified expenditure	...	85,700
Traffic Expenses	10,000	
General Superintendence	40,000	
Station staff	10,000	
Fuel, lighting, water and general stores	1,200	
Clothing	7,000	
Printing, Stationery, and Tickets	500	
Miscellaneous expenses	17,000	
Services of other lines	...	40,600
General Charges	8,000	
Home expenditure	26,000	
Salaries of Indian management	200	
Advertising	6,200	
Electric Telegraph	200	
Unclassified expenditure	...	27,200
Special and Miscellaneous Expenditure	...	400
Law charges	400	
Compensation	16,400	
Rates and Taxes	10,000	
Contributions to Special Funds	...	5,24,000
	Total Rupees... ...	5,24,000

(Signed) W. S. BETTS.
Agent.

NEGAPATAM,
14th September 1870.

MADRAS,
13th October 1870.

(Signed) H. L. PRENDERGAST, Captain, R.E.,
Acting Consulting Engineer for Railways.

CARNATIC RAILWAY.

FORM A.

Name of work, location, etc.	Amount of Estimate.			Brief particulars of the work, its object, etc.
	Indian outlay.	English outlay	Total.	
	RS.	RS.	RS.	
Widening existing line from Arconum to Conjeveram from 3 feet 6 inches to 5 feet 6 inches guage...	53,000	3,69,000	4,22,000	
Unopen Line.				
Extension from Conjeveram to Cuddalore...	...	31,15,640	31,15,640	

MADRAS,
13*th October* 1870.

H. L. PRENDERGAST, Captain, R.E.,
Acting Consulting Engineer for Railways.

FORM B.

Budget Estimate of expenditure out of Guranteed Capital on the Carnatic Railway, during 1871-72

Nature of work.	Number and date of sanction.	Amount of estimate, Indian expenditure.	Estimated expenditure up to 31st March 1871.	Estimated expenditure in 1871-72.	Total.
Detail of works on the open line estimated to cost more than Rupees 10,000.					
Widening existing line from Arconum to Conjeveram from 3 feet 6 inches to 5 feet 6 inches guage...	Unsanctioned.	53,000	.....	53,000	
Unopen lines and lines open less than two years.					
Extension from Conjeveram to Cuddalore	Unsanctiomed.	.....	.....	7,00,000	
Establishment	.....	.....	.....	1,20,000	
Stores	.....	.....	.....	30,000	
				9,03,000	9,03,000

MADRAS,
13*th October* 1870.

(Signed) H. L. PRENDERGAST, Captain, R.E.,
Acting Consulting Engineer for Railways.

Budget Estimate of Revenue expenditure on the Carnatic Railway during 1871-72.

SUMMARY.

		Amount.
		RS.
Maintenance of way, works, and stations	A...	8,100
Locomotive expenses	B...	9,300
Carriage and waggon expenses ..	C...	1,500
Traffic expenses	D...	6,500
General charges	E...	4,500
Special and Miscellaneous expenditure	G...	100
	Total...	30,000

ABSTRACT.—A.

1st.—Salaries, Office expenses, and General Superintendence ...	2,600
2nd.—Maintenance and renewals of permanent way	5,000
4th.—Repairs of stations and buildings, wages and materials ...	500
	8,100

ABSTRACT.—B.

1st.—General Superintendence...	3,500
2nd.—Running expenses	700
3rd.—Fuel	3,800
4th.—Water	200
5th.—Oil, tallow, and other stores	400
6th.—Maintenance and renewals of locomotive engines and machinery.	700
	9,300

ABSTRACT.—C.

2nd.—Repairs and renewals of vehicles and machinery	1,100
3rd.—Cleaning carriages and waggons and oiling...	400
	1,500

ABSTRACT.—D.

1st.—Salaries, wages, etc.	5,800
2nd.—Fuel, lighting, etc.	400
4th.—Printing, Stationery, and Tickets	300
	6,500

ABSTRACT.—E.

2nd.—Salaries of Indian Management including offices	4,300
4th.—Advertisements	100
5th.—Electric Telegraph	100
	4,500

ABSTRACT.—G.

3rd.—Rates and Taxes	100

(Signed) H. L. PRENDERGAST, Captain, R.E.,
Acting Consulting Engineer for Railways.

MADRAS,
13*th October* 1870.

No. 262. ORDER THEREON, 15th November 1870, No. 2,734.

RAILWAY, No. 31.

WITH this letter the Acting Consulting Engineer for Railways submits the Budget of expenditure proposed to be incurred on Railways in this Presidency from State funds and Guaranteed Capital during 1871-72.

2. *I.—State Expenditure.*—The estimate of State outlay amounts to Rupees 2,60,024 against 2,04,700 of 1870-71 as follows:—

	1870-71.	1871-72.
Controlling Establishment	66,400	68,424
Compensation for land	1,38,300	1,91,600
	2,04,700	2,60,024

The excess under Establishments is explained to be due (1) to the Military rank of the present Acting Examiner of Accounts being higher than that of the permanent incumbent; (2) to the allowance for office contingencies having under the sanction of Government been increased from Rupees 15 to Rupees 50 per mensem; and (3) to the share of rent paid for the portion of the building occupied by the Consulting Engineer's Office having been raised since the abolition of one of the offices, which was formerly accommodated in the same building. Since the submission of the Railway Budget by the Consulting Engineer the Government of India have accorded sanction to certain additions to the Railway branch of the Public Works Department, and have directed the adoption of the revised scale of salaries which has been published in the *Fort Saint George Gazette* of the 25th October 1870. These orders necessitate the following modifications of the Railway Budget of Establishments:—

G. O., No. 2,463, 13th October 1870.

		As per Consulting Engineer's Budget.	As modified.	Excess.
		RS. A. P.	RS. A. P.	RS. A. P.
Deputy Consulting Engineer.	Salary	600 0 0	950 0 0	
	Military allowance ...	293 10 0		
	House-rent	60 0 0	45 0 0	
	Military pay proper ...	140 0 0	140 0 0	
		1,093 10 0	1,135 0 0	41 6 0
Assistant Consulting Engineer.	Salary	.....	550 0 0	
	Military pay proper ...	.....	70 0 0	
	House-rent	.....	45 0 0	
		.....	665 0 0	665 0 0
Assistant Controller of the 2nd Grade.	.....	.....	350 0 0	350 0 0
One Writer for Deputy Consulting Engineer.	.....	.....	50 0 0	50 0 0
Two Lascars for do. at Rupees 7.	.....	.....	14 0 0	14 0 0
		.....	.....	1,120 6 0

3. The amount entered in the Budget as the pay and allowances of the Acting Examiner of Railway Accounts is in excess of that included in the current year's* Budget for the permanent incumbent. It is necessary that the provision should be restricted to the latter sum, which will accordingly be substituted, the excess drawn by the Acting Examiner being met from savings under Establishments. With these alterations the estimated cost of Establishments will stand at Rupees 80,467. The excess under "Compensation for land" is due to the sanctioned extensions of the Great Southern of India Railway and of the Carnatic Railway. The estimate of Rupees 2,72,067 under State Expenditure is accordingly passed.

	RS. A. P.
*In 1870-71	949 1 0
„ 1871-72	1,065 14 6
	116 13 6

4. *II.—Advances on account of Guaranteed Capital.*—The following statement exhibits the proposed expenditure on Capital Account as compared with the Budget and Regular Estimates of the current year:—

		Budget Estimate 1871-72.	Regular Estimate 1870-71.	Budget Estimate 1870-71.
		RS.	RS.	RS.
Madras Railway ...	Gross advances	27,04,000	38,16,000	42,00,000
	Refunds	13,20,000	10,03,852	13,00,000
	Net advances	13,84,000	28,12,148	29,00,000
Great Southern of India Railway.	Gross advances	20,70,300	4,43,191	2,35,000
	Refunds	1,90,000	1,74,041	1,85,000
	Net advances	18,80,300	2,69,150	50,000
Carnatic Railway ...	Gross advances	9,03,000	38,236	.....
	Refunds	2,59,000	18,479	.....
	Net advances	6,44,000	19,757	.....

5. On the Madras Railway the expenditure will be chiefly on the new Central Station at Madras, the Neilgherry branch, the Raichore Station, the maintenance of the line from Ghooty to Raichore and the provision of additional rolling stock. On the Great Southern of India Railway and on the Carnatic Railway, the largest outlay will be on the sanctioned extensions of those lines and on rolling stock.

6. The Acting Consulting Engineer assigns satisfactory reasons for modifying the amounts provided by the Railway authorities under certain heads, and the estimate of net advances for 1871-72, amounting to Rupees 39,08,300, is accordingly passed.

7. *III.—Estimate of Traffic Earnings.*—The Estimate of Traffic Earnings is as follows:—

	Gross Earnings.			Working Expenses.			Net Revenue.			Per-centage of working expenses.		
	1871-72.	1870-71.		1871-72.	1870-71.		1871-72.	1870-71.		1871-72.	1870-71.	
		Budget Estimate.	Regular Estimate.		Budget Estimate.	Regular Estimate.		Budget Estimate.	Regular Estimate.		Budget Estimate.	Regular Estimate.
		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.
Madras Railway...	61,00,000	68,00,000	53,50,000	32,52,400	29,00,000	31,43,624	28,47,600	39,00,000	22,06,376	53·32	42·65	58·76
Great Southern of India Railway...	8,63,000	8,50,000	8,00,000	5,24,000	4,25,000	5,30,674	3,39,000	4,25,000	2,69,326	60·71	50·00	66·33
Carnatic Railway.	42,000	55,000	40,427	30,000	43,000	28,954	12,000	12,000	11,473	71·43	78·18	71·62

8. Under the explanations furnished by Captain Prendergast this estimate is accepted.

9. Form B. of the Budget for the Madras Railway shows in the column of "estimated expenditure up to 31st March 1871" certain outlay on unsanctioned works. It is presumed that these entries represent the probable outlay after sanction shall have been obtained in due course to the estimates for those works, and seeing that the Government of India were led to suppose from such entries in the Budget for 1870-71 that an irregular expenditure had been incurred, the fact should have been distinctly noted in each case.

10. Ordered that the following letter be sent:—

(Here enter No. 2,735, dated 15th November 1870.)

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Acting Consulting Engineer for Railways.

Ed. S. T. Augustin.

Govt. of {1870} Madras.

PUBLIC WORKS.

To

THE ACTING CONSULTING ENGINEER

FOR RAILWAYS.

Dated November 15th.

Recd.

Encl.

G. O., 15th November 1870, No. 2,734.

NOVEMBER.

Nos. 261-262

Railway Budget.—Passing orders on the Budget Estimate of the Madras Railways for 1871-72.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, *15th November* 1870.

No. 263.

No. 2,735.

To

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

RAILWAY, No. 32.

SIR,—I am directed to forward, for submission to the Government of India, the Budget Estimates of the Railway Department for 1871-72.

2. The following is an abstract of these estimates so far as they relate to expenditure in India:—

	RS.
State outlay.	
Controlling Establishment	80,467
Compensation for land	1,91,600
	2,72,067
Expenditure from Guaranteed Capital.	
Madras Railway	27,04,000
Great Southern of India Railway	20,70,300
Carnatic Railway	9,03,000
	56,77,300
Deduct receipts by sale of stores, etc., to be credited to Capital	17,69,000
	39,08,300
The traffic earnings on these lines are estimated as under—	
Madras Railway	61,00,000
Great Southern of India Railway	8,63,000
Carnatic Railway	42,000
	70,05,000
Less working expenses	38,06,400
	31,98,600

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

Colonel, R.E.,

Secretary to Government.

Exd. S. T. Augustin.

CONSULTING ENGINEER'S OFFICE.

Railway Department.

No. 405.

From Captain H. L. Prendergast R.E.
Consulting Engineer for Railways,

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

SIR,

I have the honour
to submit the Budget Estimate
for 1871-72, of Sale Expenditure
and of Expenditure from
Guaranteed Capital, on the
Madras, the Great Southern
and the Madras Railways,
and of probable Revenue
Receipts and expenditure.

2

2 Controlling Establishment.—
The estimate for the establishment exceeds that for 1870-71 by Rs: 2,077: The excess arises from the entry of 600 Rupees, instead of Rs: 180 for office contingencies; according to the sanction given in the current year, for the higher Rate of 50 Rupees a month, in G.O. No. 1018, dated 21st April 1870, from the higher Military Rank of the present Examiner of Accounts; and from the higher Place of Messenger consequent on the abolition of one of the Executive Engineer's Offices at the Presidency.

3 Compensation for Land:—
The total estimated amount for compensation to be paid for land for each Railway is as follows:—

	Rs:
Madras Railway	65,145
Great Southern of India Railway	66,450
Patriotic Railway	60,000

On the Madras Railways, the expenditure will be chiefly for land required for the Nellgherry branch on which account the disbursements during the

the current year are estimated at Rs. 20,000, and the balance Rs. 49,895 during 1871-72.

No reliable information has been as yet obtained regarding the cost of land for the extension of the Great Southern of India Railway and for the Carnatic Railway; the figures entered in the accompanying statement are therefore only approximate; being calculated from the probable areas of wet and dry land, that are likely to be taken up.

Madras Railway

4. The total estimated outlay for 1871-72 from guaranteed capital stands thus:—

Gross Advances — Rs. 27,04,000
Less Refunds — " 13,20,000
Net Advances — " 13,84,000

The estimate of gross advances, as forwarded by the Agent amounts to Rs. 27,51,031; but this has been reduced in this office to Rs. 27,04,000. One item of construction Rs. 6,586 has been struck out as the work is chargeable to Revenue, and the allotment

of

of Rs: 163,006 for "Minor works
"on lines open more than two years"
as Reduced by Rs: 1,40,561.

4 The item of Contingencies is
allowed from 20,000 Rupees to
12,000 Rupees, and Tools and
Plant from 2,000 to 12,000 Rupees.

The Agent in reply
to my Remarks that the items
noted above appear to be
excessive, explained that the
Establishment proposed for Minor
works is composed of Rs: 78,832
for the Engineering Department
and Rs: 84,174 for the Locomotive
Department. I have however
considered the total as somewhat

high: and reduced it by Rs:
22,445. The Revenue to meet
the enforced Requirements
on lines open more than two
years, is estimated at Rs: 119,000;
but the sum expressed Rs: 92,000
for the Engineering Department,
and Rs: 27,000 for the Locomotive
Department. Explanation is
given by the Agent, that under
contingencies as much as Rs:
12,000 has been expended in
the last half-year; I think
however this expenditure was
exceptional, and that for the
item Establishment including
contingencies Rs: 32,000 may
safely

safely be substituted for Rs. 3,30,000.

Explanation is further given by the Agent that his item for Tools and Plant 22,000 Rupees is intended to cover expenditure on the purchase of tools &c., in this country. Reckoned at about 1 per cent on the expenditure on construction. As heavier tools are generally issued from the stores I am of opinion that Rs: 12,000 is a sufficient sum to set down under the head Tools and Plant.

5. The regular estimate of net advances for the current year, after deducting the amount of probable credits to the Capital account for sale of proceeds of stores, and value of stores used on Revenue purposes, amounts to Rs: 28,12,148. This estimate is based on the actual payments in the first five months of 1870-71, April to August.

6. The expenditure during the year 1871-72 will be chiefly upon the new Central Station at Madras, the Beilary branch line, the Cuddapah station, the maintenance of line from Gooty to Konjee, and the provision of additional Rolling stock

clock the anticipated opening of the line to Bareilly and Pelhary regulating the latter necessary.

6. The percentage of working expenses on the Moradabad Cawnpore compared with gross receipts for the last five half-years has been as follows:—

	South-West Line.	North-West Line.	Average.
First half of 1868	42·95	31·27	37·11
Second " "	44·93	37·72	41·32
First " 1869	45·45	40·35	42·90
Second " "	48·62	40·85	44·73
First " 1870	49·03	56·60	52·81

7. The percentage of the gross traffic earnings expected to be absorbed by the working expenses during 1871–72, is estimated by the Railway Authorities at 56·43. This is somewhat less than the percentage in the regular estimate for 1870–71, viz. 58·76. However on examining the detailed estimate of Revenue expenditure, the expenses under abstracts B and D, have seemed to be unnecessarily high; and I have reduced the detailed estimate from 32,42,000 Rupees to Rs. 32,52,400. The working expenses become then 53·32 per cent of the gross receipts, which is still a higher rate than

than the averaged for the last five half-yearly periods.

9. The gross earnings realized in the first five months of 1870-71 (April to August) amounted to Rs: 2,78,565, and allowing for an expansion of the traffic from the opening of the North West Line from Gherla to Beyn, the regular estimate for the current year is taken at Rs: 5,50,000 in round numbers.

10. The aggregate estimate of working expenses for 1870-71 amounting to Rs: 3,43,624 is obtained by adding Rs: 15,6,124 the amount of actual expenditure in the first half of the year to Rs: 15,82,500 the estimated expenditure for the second half of the year according to the half-yearly Revenue estimate which has lately been drawn up for the first time.

Great Southern of India Railway.

11. The estimate of expenditure from Guaranteed Capital on the Great Southern of India Railway as furnished by the Agent amounts to Rs: 20,70,800
Less Refunds ——— " 1,90,000
Net Rs: 18,80,800

Almost

11. Almost the whole of the estimated outlay will be on the works of construction of the Southern Extension from Bombay to Sutrapur, and of the provision of rolling stock on completion thereof.

An outlay has been made for minor works. The Agent states that the minor works now on hand are expected to be completed before the commencement of the next official year and that no new or other works likely to be put on hand; and I think the total amount asked

asked for in Form B, Rs. 19,15,3 is sufficient to cover any unexpected demands for minor works.

12. The regular estimate for the current year 1870-71 debiting the amount of probable credits to the Capital account for sale proceeds of stores, and value of stores used on Revenue purposes, amounts to Rs. 2,69,100. This calculation is made from the payments during the first five months of the year. The excess over the Budget estimate for 1870-71 (Rs. 50,000) is caused by expenditure on the Sutrapur extension, which was not

not anticipated when the Estimate for the current year was prepared.

13. The percentage of working expenses on the gross receipts for the last four half-years has been as follows:—

First half of	1868	46·86
Second "	"	44·85
First "	1869	62·24
Second "	"	64·50
First "	1870	61·15

14. The working expenses for 1871-72 are calculated by the Agent at 60 per cent of the gross traffic earnings and

and I think they may be accepted.

15. The regular estimate for the present year calculated from the actual expenditure in the first half of 1870-71, and from the half yearly estimate of Revenue expenditure for the second half of the year amounts to Rs: 530674.

First half of 1870-71 Rs: 261674
Second " " " 269100
Total Rs: 530674

The expenses of the present year there about 66·33 per-cent of the earnings: but it is hoped that in next year, the expenses may be somewhat less

less, and the receipts higher.

Carnatic Railway Company

16. The estimated expenditure from Guaranteed Capital during 1871-72 amounts to ——— 101,03,000
Less Refunds ——— " 2,59,000
Net - Rs. 644,000

The Agents have set down in their estimate Rs: 1185,000: but considering that the undertaking has to be started from the beginning: Mr Crane thought it advisable to reduce that amount considerably.

The deduction of Rs: 2,59,000

2,59,000 is made from the estimate of payments from Treasuries on the supposition, that the property of the narrow gauge line, may be sold to the Mysore Government.

17. The gross earnings during 1871-72 have been estimated by the Secretaries and Agents at Rs: 42,000, and the working expenses at Rs: 32,000. The regular estimate based upon the receipts in the first nine months of the year nine Rs: 40,427 as the gross earnings for the year 1870-71, and the estimate of Rs: 42,000 for 1871-72

1871-72, appears not to be excessive. But as the regular estimate of revenue and expenditure for the present year amounts to Rs. 28,95,400 I do not see the necessity of entering so much as 32,000 Rupees, as the amount of working expenses in next year, and have reduced that sum to Rs. 32,000.

18. The amounts requiring the sanction of the Government of India are

State Expenditure

Controlling Establishment (in round numbers)	Rs. 68,400
Land purchase &c	" 191,600
	Rupees 260,000

Expenditure

Expenditure from Guaranteed Capital in India.

Madras Railway	Rs. 27,04,000
Great Southern of India Railway	" 20,76,300
Carnatic Railway	" 9,03,000
	56,77,300
Deduct Receipts by sale of stores &c. to be credited to Capital	" 17,69,000
Balance	" 39,08,300

The traffic earnings will be, from the—

Madras Railway	Rs. 61,00,000
Great Southern of India Railway	" 8,63,000
Carnatic Railway	" 42,000
	70,05,000
Deduct working expenses on all the Railways	" 38,06,400
Net Revenue	" 31,98,600

Madras
13 October
1870

I have the honour to
Your most obedient
Devonshire Capt. R
Asst. Secy. for Rail

RAILWAY DEPARTMENT.

From The Consulting Engineer
for Railways,

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

Dated 13th October 1870.
Received 14th

No. 405.

Enclosures 11.

Re Supplies for the Budget estimate for 1871-72.

Nos 2734 & 2735-15 October 70

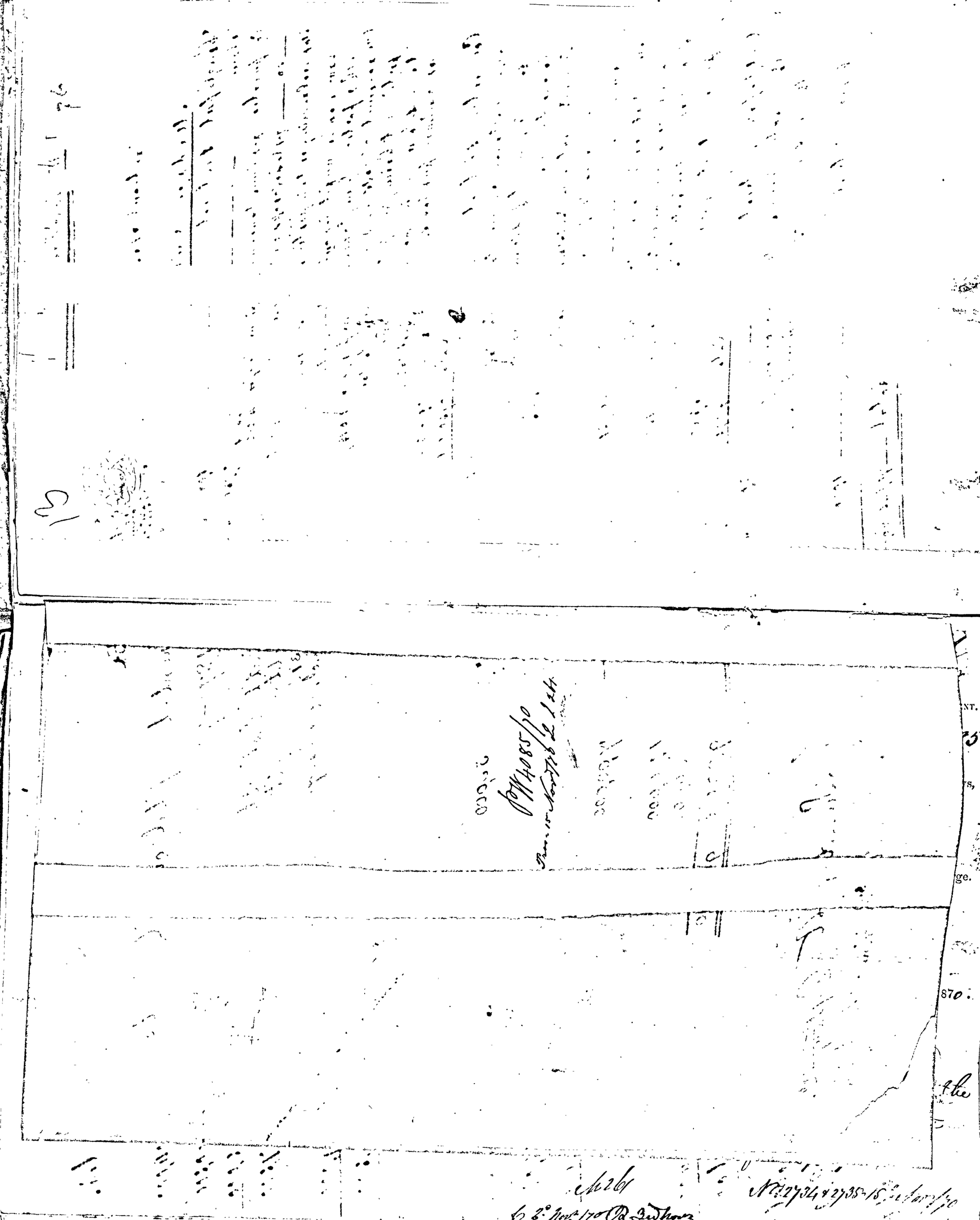
Form B.

Budget Estimate of expenditure out of Guaranteed Capital on the Carnatic Railway, during 1871-72.

Nature of work	No. and date of Sanction	Amount of estimate Indian expenditure	Estimated expenditure up to 31st March 1871	Estimated expenditure in 1871-72	Total
Detail of works on the open line estimated to cost more than Rs 10000.					
Widening existing line from Arconum to Conjeveram from 3'-6" to 5'-6" guage.	Unsanctioned	53,000		53,000	
Unopen lines and lines open less than two years.					
Extension from Conjeveram to Cuddalore	Unsanctioned	—	—	7,00,000	
Establishment				1,20,000	
Stores				30,000	
				9,03,000	9,03,000

Madras
13th October 1870

Wm L Strangeways Captain, R.E.,
A.C. Consulting Engineer for Railways.



II Purchase of Lands.

Particulars.

Particulars	Amount of Estimate	Compensated by payments to 31st March 1871	Estimate 1871-72
	Rs	Rs	Rs
Madras Railway			
Chingleput District	1,000	"	1,000
Salem	2750	"	(a) 2750
(a) Compensation for lands taken up for Railway purposes			Rs As 482-2-9
—do— for loss of crops on the above land			4-12-6
For reclaiming certain portions of lands which have become unfit for cultivation, by the other portions being taken for Railway purposes			180-14-7
On account of loss of Revenues owing to the parties not having been put in possession of the land to be given in exchange for that taken for Railway purposes			2082-2-2
Total			2750-0-0
Coimbatore District	69,895	(b) 20,000	(b) 47,895
(b) From Podhanoor Railway station to Coimbatore, four miles, through paddy fields and garden (orchard) lands			Rs 38,500
From Coimbatore to Goodaloor through garden lands and valuable punjah cultivation, eleven miles			20,921
From Goodaloor to Karamundy, through garden lands and valuable punjah cultivation, five miles			7,124
From Karamundy to Meetapollium through punjah cultivation, seven miles			3,330
Total			69,895
Cuddapah District	2,000	"	(c) 1,500
(c) Compensation likely to be disbursed on account of the lands already taken up for Railway purposes.			
Bellary District	1,000	"	10,000
Total	76,645	20,000	65,145

Particulars

Particulars	Amount of Estimate	Compensated by payments to 31st March 1871	Estimate 1871-72
	Rs	Rs	Rs
Great Southern of India Railway			
Trichinopoly District	8,000	7,000	(d) 13,000
(d) Forty two miles of land, sixty two yards wide on an average for the G.S. of I. Rs Erode Extension			Rs 7,000
Land required for the above Railway on account of the proposed Tuticorin Extension			6000
			Total 13,000
Tanjore District for Erode Extension	159,955	146,505	13,450
Madura — " — for Tuticorin — "	32,000	"	25,000
Tinnevelly — " — for — "	20,000	"	15,000
Total	219,955	153,505	66,450
Carnatic Railway			
North Arcot District	25,000	"	20,000
South — " —	54,000	"	40,000
Total	79,000	"	60,000

Summary.

Madras Railway	65,145
Great Southern of India Railway	66,450
Carnatic Railway	60,000
Total	191,595

Madras
13th October 1870

Alex. Henderson Captain R.E.
Ag. Cons: Engr for Railways

35

Form A.

Carnatic Railway.

Name of work, location, &c.	Amount of estimate.			Brief particulars of the work, its object, &c.
	Indian outlay	English outlay	Total	
Widening existing line from Arconum to Conjeveram from 3'.6" to 5'.6" guage.	53,000	3,69,000	4,22,000	—
Unopen line.				
Extension from Conjeveram to Cuddalore		31,15,640	31,15,640	—

Madras
13th October 1870

Alex. Spenderyan Captain, R.E.,
Ag. Consulting Engineer for Railways

Appendix C.

Estimate of Railway Transactions as Disbursements or Receipts of the Public Works Department for 1871-72.

I. Expenditure from Guaranteed Capital.

	1871-72 English	1871-72 Indian	1871-72 Total	1870-71	Regular estimate 1870-71.
Madras Railway					
Payments from Government Treasuries.					
1. Cash advances for Construction.		26,96,000			
2. Customs duty on Stores.		8,000			
3. Payments to Revenue.		"	27,04,000	42,00,000	38,16,000
Receipts into Government Treasuries.					
1. Shares paid in India		"			
2. Refunds, &c.					
3. Sale proceeds of stores.		1,25,000			
4. Payments from Revenue.		11,95,000	13,20,000	13,00,000	10,03,852
Net payments from Government Treasuries.			13,84,000	29,00,000	28,12,148
Great Southern of India Railway.					
Payments from Government Treasuries.					
1. Cash advances for Construction.		19,75,300			
2. Customs duty on Stores		15,000			
3 Payments to Revenue		80,000	20,70,300	2,35,000	4,43,191
Receipts into Government Treasuries.					
1 Shares paid in India		"			
2. Refunds, &c.					
3 Sale proceeds of Stores.		10,000			
4 Payments from Revenue.		1,80,000	1,90,000	1,85,000	1,74,041
Net payments from Government Treasuries			18,80,300	50,000	2,69,150

Carnatic Railway

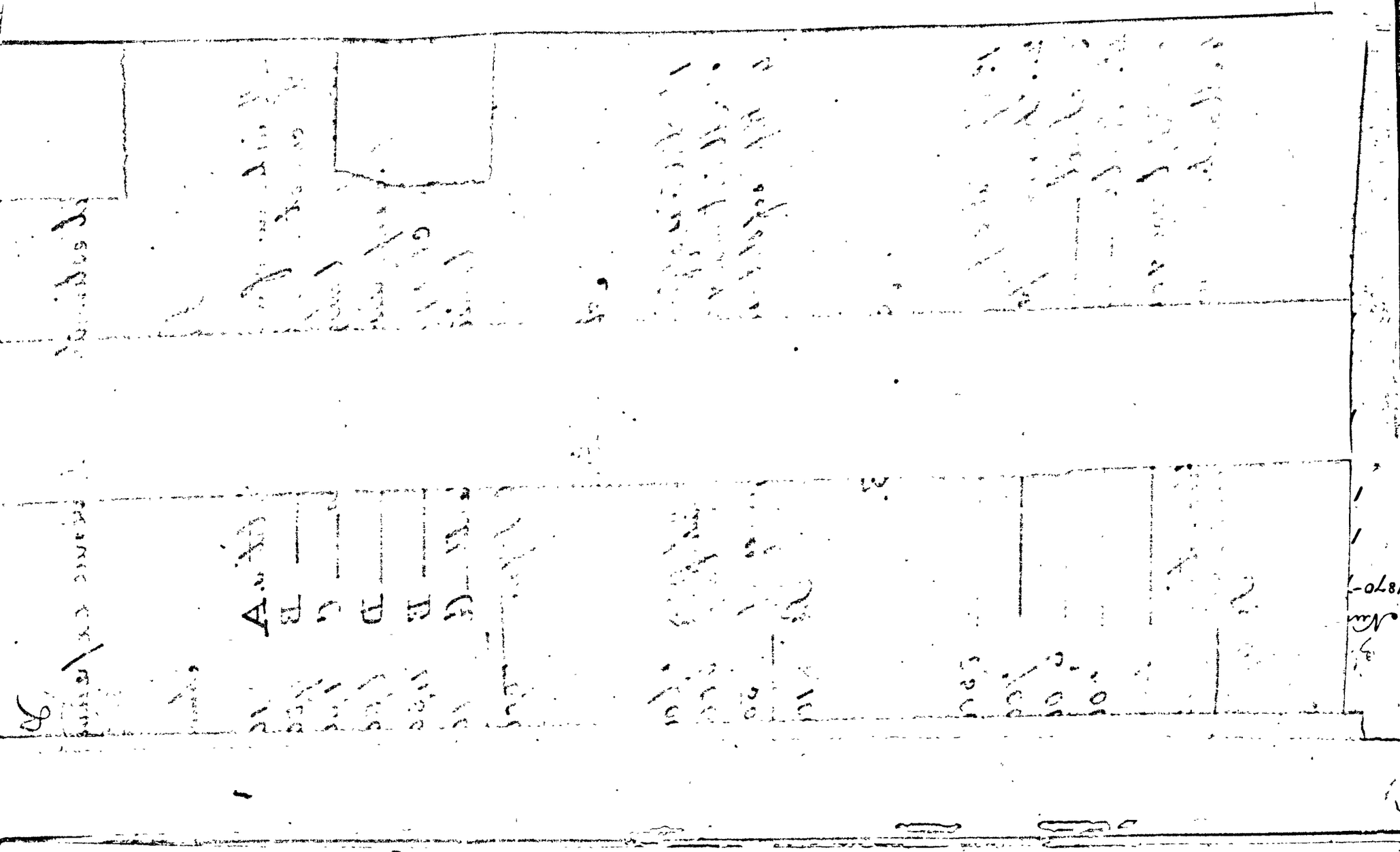
	1871-72 English	1871-72 Indian	1871-72 Total	1870-71	Regular estimate 1870-71.
Payments from Government Treasuries.					
1. Cash advances for Construction			9,03,000		
2. Customs duty on Stores			"		
3 Payments to Revenue			"	9,03,000	38,236
Receipts into Government Treasuries.					
1. Shares paid in India			"		
2. Refunds, &c.					
3 Sale proceeds of stores			2,59,000	2,59,000	18,479
4. Payments from Revenue.					
Net payments from Government Treasuries			644,000		19,757

II. Revenue Account.

	Gross Earnings 1870-71			Working expenses 1870-71			Net Revenue 1870-71			Percentages of working expenses. 1870-71		
	1871-72 Budget Estimate	Regular Estimate		1871-72 Budget Estimate	Regular Estimate		1871-72 Budget Estimate	Regular estimate		1871-72 Budget Estimate	Regular Estimate	
Madras Railway 8½	61,00,000	68,00,000	53,50,000	32,52,400	29,00,000	31,43,624	28,47,600	39,00,000	22,06,376	53·32	42·65	58·76
Great Southern of India Raily	8,63,000	8,50,000	8,00,000	5,24,000	4,25,000	5,30,674	3,39,000	4,25,000	2,69,326	60·71	50·00	66·33
Carnatic Railway	42,000	55,000	40,427	30,000	43,000	28,954	12,000	12,000	11,473	71·43	78·18	71·62

Madras —
13th October 1870.

Hen. L. Spencer Captain, R.E.,
Ag. Consulting Engineer for Railways.



Budget estimate of Revenue expenditure of the Carnatic Railway, during 1871-72.

Summary.

		Amount		
Maintenance of way, works and stations.	A	8,100	"	"
Locomotive expenses	B	9,300	"	"
Carriage and waggon expenses	C	1,500	"	"
Traffic expenses	D	6,500	"	"
General charges	E	4,500	"	"
Special and miscellaneous expenditure	G	100	"	"
Total Rupees		30,000	"	"

Abstract A.

1st Salaries, office expenses & general superintendence	2,600	"	"
2d Maintenance & renewals of permanent way	5000	"	"
4 Repairs of stations and buildings, wages and materials	500	"	"
Rs	8,100	"	"

Abstract B.

1st General superintendence	3,500	"	"
2d Running expenses	700	"	"
3d Fuel	3800	"	"
4th Water	200	"	"
5 Oil, tallow & other stores	400	"	"
6 Maintenance and renewals of locomotive engines & machinery	700	"	"
Rs	9,300	"	"

Abstract C.

2d Repairs and renewals of vehicles and machinery	1,100	"	"
3d Cleaning carriages and waggons & oiling	400	"	"
Rs	1,500	"	"

Abstract D.

1st Salaries wages, &ca	5,800	"	"
2d Fuel, lighting, &ca	400	"	"
4th Printing, stationery and tickets	300	"	"
Rs	6,500	"	"

Abstract E.

2d Salaries of Indian Management including offices	4,300	"	"
4th Advertisements	100	"	"
5th Electric Telegraph	100	"	"
Rs	4,500	"	"

Abstract G.

3d Rates and taxes	100	"	"

Madras
13th October 1870

Alex Spender Jr Captain, R.E.,
Asg Consulting Engineer for Railways

Madras Railways.

Detail of Estimate of State Expenditure on account of Railways for the year 1871-72.

Abstract.

I. Establishment (in round numbers) Rs. 68,400.
II. Purchase of Land. ——do—— " 191,600.
Total Rs. 2,60,000.

Number 1870-71	Number 1871-72	Particulars	Salary of Office. Minimum	Annual increment	Maximum	Estimate 1871-72 Per mensem	Per annum	Total.	Estimate 1870-71 charges per annum.
1	1	Consulting Engineer for Railways ——1860 Military Pay Proper ——140	2,000 ..		2,000 ..	24,000 ..	24,000 ..	24,000 ..	24,000 ..
1	1	Dy Cons: Engineer for Railways. ——600 Military Allowance ——293 7/8 House Rent ——60 Military Pay Proper. ——140.	1,093 10 ·		1,093 10 ·	13,123 8 ·	13,123 8 ·	13,123 8 ·	13,123 8 ·
1	1	Examiner of Railway Accounts—325 Military Allowances, Staff Corps 640+146 pay House rent ——100.	1065 146		1,065 146	12,790 14 ·	12,790 14 ·	11,388 8 ·	
1	1	Uncovenanted Assistant ——	300 ..		300 ..	3,600 ..	3,600 ..	3,600 ..	
1	1	Second Grade Accountant ——	250 ..		250 ..	3000	3000 ..	3000 ..	
4	4	Clerks, 15, 20, 30, and 70. ——	135 ..		135 ..	1620 ..	1620 ..	1620 ..	
3	3	Accountants 40, 60, and 100. ——	200 ..		200 ..	2400 ..	2400 ..	2400 ..	
1	1	Draughtsman ——	50 ..		50 ..	600 ..	600 ..	600 ..	
1	1	Indexer ——	50 ..		50 ..	600 ..	600 ..	600 ..	
10	10	Peons and others, one at Rs5, seven at Rs7, one at 8, and one at 10½ ——	72 8 ·		72 8 ·	870 ..	870 ..	870 ..	
		House Rent ——	. ..		85 ..	1020 ..	1020 ..	765 ..	
		Add for travelling allowances of Consulting Engineer, Deputy Consulting Engineer & Examiner of Railway Accounts ——	350 ..		350 ..	4200 ..	4200 ..	4200 ..	
		Office expenses and Contingencies. ——	50 ..		50 ..	600 ..	600 ..	180 ..	
		Total.	5,702 06		5,702 · 6	68,424 6 ·	68,424 6 ·	66,347 ·	

Madras
13th October 1870

Alex Brendergast Captain, R.E.
Asst Consulting Engineer for Railways.

Pub Works Department

No 2734

Proceedings of the Madras Government
Under date the 15th November 1870
Read the following

From the Off Cons. Engineer for Railways } No 8 No 405 of 13 October 1870

With this letter the
Acting Cons. Engineer for
Railways submits the
Budget of expenditure
proposed to be incurred
on Railways in this
Presidency from State
Funds and Guaranteed
Capital during 1871/72.

I. State Expenditure

The estimate of State
outlay amounts to Rs
2,60,032 against Rs
2,04,700 of 1870/71 as follows

Controlling

No 4085/70
From 15 Nov/70 L L264

	1870/71	-	1871/72
Controlling Establishment	66,400	-	68,424
Compensation for land	1,38,300	-	1,91,600
	2,04,700	-	2,60,024

The excess under Establishments is explained to be due (1) to the Military rank of the present acting Examiner of Accounts being higher than that of the permanent incumbent (2) to the allowances for office contingencies having under the sanction of Govt. been increased from Rs 15 to Rs 52 per mensem and (3) to the share of rent paid for the portion of the building occupied by the Com. Engineers office having been raised since the abolition of one of the offices which

G. O. No. 2463 - 13th Oct. 70.

was formerly accommodated in the same building. Since the submission of the Railway Budget by the Com. Engineer the Govt. of India have accorded sanction to certain additions to the Railway branch of the Public Works Department and have directed the adoption of the revised scale of salaries which has been published in the Fort Saint George Gazette of the 25th October 1870. These orders necessitate the following modifications of the Railway Budget of Establishments.

		Conf Engrs Budget		modified		Excess	
		Rs	as	Rs	as	Rs	as
Deputy Consulting Engineer	Salary	600					
	Military allowance	293	10	950			
	House Rent	60		45			
	Military Pay proper	140		140			
		1093	10	1135	-	41	6
Assistant Consulting Engr.	Salary			550			
	Military Pay proper			70			
	House Rent			45			
				665		665	
Assistant Controller of the 2nd Grade				350	-	350	
Writer for Consulting Engr.				50	-	50	
2 Lascars for do at Rs				14	-	14	-
						1120	6

The amount entered in the Budget as the pay and allowances of the Acting Examiner of Railway accounts is in excess of that included in the current years Budget for the permanent incumbent. It is necessary that the provision should

*In 1870-71 - 949 - 1
" 1871-72 - 1065 - 14 - 6
116 - 13 - 6

should be restricted to the latter sum which will accordingly be substituted, the excess drawn by the Acting Examiner being met from savings under Establishments.

With these alterations the estimated cost of Establishments will stand at Rs 80,467. The excess under "Compensation for land" is due to the sanctioned extensions of the Great Southern of India Railway and of the Carnatic Railway. The estimate of Rs 2,72,067 under State Expenditure is accordingly passed.

II. Advances on account of Guaranteed Capital.

The following statement exhibits the proposed expenditure

on Capital account as compared with the Budget and regular Estimates of the current year.

		Budget Estimate 1871/72	Regular Estimate 1870/71	Budget Estimate 1870/71
Madras Railway	Gross advances	27,04,000	38,16,000	42,00,000
	Refunds	13,20,000	10,03,852	13,10,000
	Net advances	13,84,000	28,12,148	29,00,000
Great Southern of India Railway	Gross advances	20,70,300	4,43,191	2,35,000
	Refunds	1,90,000	1,74,041	1,85,000
	Net advances	18,80,300	2,69,150	50,000
Carnatic Railway	Gross advances	9,03,000	"	38,236
	Refunds	2,59,000	"	18,479
	Net advances	6,44,000	"	19,757.

On the Madras Railway the expenditure will be chiefly on the new Central station at Madras the Perambore branch the Raichore station the maintenance

maintenance of the line from Ghooty to Raichore and the provision of additional Rolling stock. On the Great Southern of India Railway and on the Carnatic Railway the largest outlay will be on the sanctioned extensions of those lines and on Rolling stock.

The Acting Consulting Engineer assigns satisfactory reasons for modifying the amounts provided by the Railway authorities under certain heads and the Estimate of net advances for 1871/72 amounting to Rs 39,08,300 is accordingly passed.

III Estimate

II. Estimate of traffic earnings.

The estimate of Traffic earnings is as follows:-

Name of Railway	Gross Earnings 1870-71		Working Expenses 1870-71		Net Earnings 1870-71		Percentage of working Expenses to Gross Earnings	
	Budget Estimate	Revised Estimate	Budget Estimate	Revised Estimate	Budget Estimate	Revised Estimate	Budget Estimate	Revised Estimate
Madras Railway	24,85,000	24,85,000	12,00,000	12,00,000	12,85,000	12,85,000	48.29	48.29
Great Southern of India Railway	29,19,000	29,19,000	14,00,000	14,00,000	15,19,000	15,19,000	47.96	47.96
Carnatic Railway	4,50,000	4,50,000	2,25,000	2,25,000	2,25,000	2,25,000	50.00	50.00
Total	58,54,000	58,54,000	28,25,000	28,25,000	30,29,000	30,29,000	48.26	48.26

Under the explanations furnished by Captn Prendergast this estimate is accepted.

Form B of the Budget for the Madras Railway shows in the column of estimated expenditure up to 31st March 1871 certain outlay on unsanctioned works. It is presumed that these entries represent the probable outlay after sanction shall have been obtained in due course to the estimates for those works and seeing that the Govt of India were led to suppose from such entries in the Budget

for

for 1870/71 that an irregular expenditure had been incurred, the fact should have been distinctly noted in each case.

Ordered that the following letter be sent

H. E. Sir

Pursuant to No 2735

The Secy to the Govt of India P.W.D.

Sir

I am directed to forward for submission to the Govt of India the Budget estimates of the Railway Department for 1871-72.

The following is a abstract of these estimates so far as they relate to expenditure in India.

State Railway	
Controlling Establishment	80,46
Compensation for Land.	1,91,60
	2,72,06
Expenditure from Guaranteed Capital	
Madras Railway.	27,04,000
Great Southern of India Railway	20,70,300
Carnatic Railway.	9,03,000
	56,77,300
Deduct receipts by sale of stores &c to be credited to Capital	17,69,000
	39,08,300

Desp. No 18/4/70 with 1 Enc of Govt No 2734 of 1870 - to packet containing 25 Copies of Govt No 2734 of 1870 by Book-post -

The

Lt Col C. Engr for Rys

Desp. 17/11/70

3/11/70

Se traffic earnings
these leases are estimated
as under.

Indian Railway	61,04,000
Great Southern of India Railway	8,63,000
Carnatic Railway	42,000
	70,05,000
Less working expenses	38,06,400
	31,98,600

Further Rec.d 389 0/8
Feb 1/71 906 0/4 5/

62 2nd Inv/70 R. 3rd Row

Govt. of Madras.

PUBLIC WORKS.

To Railway Consulting Engrs.
for Railways
and
To the Secretary to the Govt.
of India

Nos. 261 – 262 & 263

Nos. 264-1620-263