

- (1) Number of pages _____
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MADRAS RECORD OFFICE

Government of Madras

Public works DEPARTMENT

G.O. No.	874-875	Press
B.P. No.		Mis.
487.489		
Dated	20 - 3 - 1873	

Not to be folded or roughly handled

Recd 31 May 1873 No 573 - 574

RAILWAY DEPARTMENT
From 1873 To 1874
The Consulting Engineer
for Railways

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

Dated 13th March 1873
Recd. 4th April 1873
No. 1324
Enclosures 1

Submitted by Mr. J. S. ...
Inspected and sanctioned
by Mr. J. S. ...
Half-year ending 31 June 1873

With no. 574

~~No 874 No 875~~

Ordered that this list be forwarded
to the f. of S. with reference to their order of 18 May/72
in 156 A. R.

To forward
Dec 24/3/73
by of India

(Docket No 875)
Copy of the above forwarded to the
[Signature]

Dec 24/3/73 with 35 shams ap.

No 487-88

20.8.1873
874-75

778

No. 487. Read the following letter from the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 3rd March 1873, No. 132 :—

WITH reference to the Order of Government, No. 1,365, dated 31st May 1872, I have the honour to forward, for submission to the Government of India, lists of maintenance sanctions in force in the Engineering Department of the Madras Railway for the half-year ending 30th June 1873.

2. In the 3rd Division of the North-West Line the expenditure exhibited is for a distance of 108 miles from Goondacul to Raichore, including the Bellary branch, but of this the following sections will be chargeable to Capital only for a portion of the half-year :—

From Goondacul to Veerapoor, 18 miles, will be chargeable to Capital up to the 15th January 1873.

From Veerapoor to Bellary, 14 miles, up to the 28th February 1873.

From the Toongabudra river to Raichore, 17 miles, up to the 14th March 1873.

MADRAS RAILWAY.
Abstract of Estimates for Maintenance, half-year ending 30th June 1873.

Proceedings of the Madras Government, Public Works Department,
20th March 1873.

Heads of Charges.	FIRST DIVISION, SOUTH-WEST LINE.		SECOND DIVISION, SOUTH-WEST LINE.		THIRD DIVISION, SOUTH-WEST LINE.		FOURTH DIVISION, SOUTH-WEST LINE.		FIRST DIVISION, NORTH-WEST LINE.		SECOND DIVISION, NORTH-WEST LINE.		THIRD DIVISION, NORTH-WEST LINE.	
	Madras to Jollapett.	131½ Miles (single).	Jollapett to Mullapooram, including Bangalore Branch.	133½ Miles (single).	Mullapooram to Coimbatore.	121½ Miles (single).	Coimbatore to Roypore.	104½ Miles (single).	Arconum to Cuddapah.	119½ Miles (single).	Cuddapah to Goondacul.	111 Miles (single).	Goondacul to Rairchore, including Bellary Branch.	108 Miles (single).
	Rs.	Per Mile.	Rs.	Per Mile.	Rs.	Per Mile.	Rs.	Per Mile.	Rs.	Per Mile.	Rs.	Per Mile.	Rs.	Per Mile.
Head No. II { Ordinary ...	43,376	330	26,022	195	61,621	506	51,282	492	30,072	253	24,335	220	36,339	337
Head No. II { Extraordinary ...	3,354	25	...	...	1,59,995	498	6,650	64	...	...	...	...	...	...
Head No. III { Ordinary ...	6,000	46	5,068	38	2,700	32	8,150	78	4,600	38	4,214	38	4,900	45
Head No. III { Extraordinary ...	23,500	179	3,254	25	900	8	18,000	172	4,000	33	2,620	24	3,000	28
Head No. IV { Ordinary ...	3,600	27	7,070	53	4,020	33	2,850	27	4,250	36	2,152	19	1,000	9
Head No. IV { Extraordinary ...	...	...	...	...	1,132	9	...	...	...	...	...	...	...	...
Head No. V { Ordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Head No. V { Extraordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Head No. VI { Ordinary ...	1,050	8	...	...	1,850	15	...	...	1,550	13	1,050	9	1,550	14
Head No. VI { Extraordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total...	80,880	615	43,064	323	132,218	1,036	88,792	831	44,472	372	34,421	310	46,759	433

(Signed) **B. ANDERSON,**
Chief Engineer.

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

(Signed) **R. K. WILLIAMS,**
Government Examiner.

(Signed) **F. CHURCH,**
Chief Auditor.

Proceedings of the Madras Government, Public Works Department,
20th March 1873.

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 30TH JUNE 1873.
1st Division, South-West Line, from Madras to Jollapett.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double ...	.....	.....	.....
{ Single ...	131½	.....	131½
Sidings ...	14½	.....	.....
Total...	.....	.....	131½

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
II.	Maintenance, Permanent-way—	Rs.	Rs.	One Gang consisting of—
	(1.)—Wages—			Rs. Rs.
	47 Gangs, at Rs. 47×6 ...	13,254	.....	1 Maistry 12
	3 Do., at „ 103×6 ...	10,122	.....	7 Men, at Rs. 5. 35
	Establishment, at „ 1,637×6 ...	.....	.....	19 Men, at Rs. 5. 95
	(2.)—Materials—			* Total... 47 † Total... 103
	Ballast, C. yds. 10,000, at 4 As.	1,000	\$ 1,500	Establishment—
	Rails ...	7,000	.....	4 Section Maistries, at Rs. 15
	Sleepers ...	12,000	.....	4 Inspectors' Writers, at „ 20
	Total, Head II...	42,376	8,354	3 Smiths, at „ 6
III.	Repairs, Wages, and Materials—			3 Hammermen, at „ 5
	(1.)— { Bridges and culverts ...	2,500	17,500	3 Bellows Boys, at „ 20
	{ Tunnels ...	.....	.....	2 Carpenters, at „ 7
	(2.)— { Earthwork ...	1,000	6,000	2 Engineer's Lavacars, at „ 5
	{ Fences ...	1,000	.....	4 Inspectors' do. at „ 5
	{ Roads and level crossings ...	1,000	.....	160 Watchers, at „ 7
	{ Miscellaneous ...	500	.....	1 Timekeeper ...
	Total, Head III...	6,000	23,500	4 Inspectors' Assistants, at Rs. 30
	Repairs, Wages, and Materials—			2 Sub-Inspectors, at „ 50
	(1.)— { Station buildings, yards, etc. ...	2,500	.....	† Total... 1,687 0 0
IV.	{ Signals, gate lodges, etc. ...	100	.....	\$ For renewing laterite with sand ballast on Section I.
	(2.)—Staff quarters ...	1,000	.....	General repairs, Rupees 2,500 (protective works, Rupees 16,000) bridges damaged by floods, Rupees 1,500.
	Total, Head IV...	3,600	.....	Pitching in tanks, Rupees 6,000.
	Maintenance by Contract ...	.....	.....	Planting and strengthening aloe fence.
	Total, Head V...	.....	.....	General repairs, Rupees 250; making bandy road leading to Vellore Goods-shed, Rupees 750.
	Unclassified Expenditure—			General repairs, Rupees 1,500; altering platforms, Rupees 1,000.
	(1.)—Plantations ...	.....	.....	General repairs to bungalows.
	(2.)—Tools and Plant ...	1,000	.....	
	(3.)—Loss on Stores ...	50	.....	
	Total, Head VI...	1,050	.....	
	Grand Total...	54,026	26,854	Includes repairs of Ballast wagons.

Proceedings of the Madras Government, Public Works Department,
20th March 1873.

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 30TH JUNE 1873.
2nd Division, South-West Line from Jollarpett to Mullapooram, including
Bangalore Branch.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line... { Double ... ..	.....	.....	.....
Single	133½	.....	133½
Sidings	10½	.....	.....
Total...	.....	.....	133½

Proceedings of the Madras Government, Public Works Department,
20th March 1873.

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 30TH JUNE 1873.
3rd Division, South-West Line, from Mullapooram to Coimbatore.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double ... ..	.....	.....	.....
Single	121½	.....	121½
Sidings	10½	.....	.....
Total...	.....	.....	121½

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
II.	Maintenance, Permanent-way—	Rs.	Rs.	
	(1.)—Wages—			One Gang consisting of—
	* 53 Gangs, at Rs. 32 × 6	10,176	.....	1 Maistry ... 9 8 0
	23 Lorrymen, at „ 6 × 6	828	.....	5 Coolies, at 4-8-0 ... 23 8 0
	† Establishment, at „ 1,453 × 6	8,718	.....	*Total... 32 0 0
	(2.)—Materials—			Establishment—
	Ballast, C. yds. 16,000, at As. 4-6	4,500	.....	1 Inspector of Night Watchmen. 50 0 0
	Rails	800	.....	4 Inspectors' Assistants, at Rs. 30 120 0 0
	Sleepers... ..	1,000	.....	5 Do. Writers, at „ 15 75 0 0
	Total, Head II...	26,022	.....	1 Store Writer ... 20 0 0
III.	Repairs, Wages, and Materials—			175 Line Watchmen, at Rs. 8 1,050 0 0
	(1.)— { Bridges and culverts ... 1,718	3,254	.....	1 Blacksmith ... 15 0 0
	{ Tunnels ... ..	.....	.....	1 Hammerman ... 6 0 0
	{ Earthwork	2,000	.....	1 Bellows Boy ... 3 0 0
	{ Fences	800	.....	1 Carpenter ... 15 0 0
	(2.)— { Roads and level crossings ... 800	.....	.....	1 Tinker ... 15 0 0
	{ Miscellaneous	250	.....	2 Lascars, at Rs. 7 14 0 0
	Total, Head III...	5,068	3,254	10 Store Watchers, at „ 7 70 0 0
	Repairs, Wages, and Materials—			†Total... 1,453 0 0
	(1.)— { Station buildings, yards, etc. ... 5,000	.....	.....	General repairs, Rupees 1,718; protective works, Rupees 3,254.
IV.	{ Signals, gate lodges, etc. ... 170	.....	.....	
	(2.)—Staff quarters	1,900	.....	General repairs, Rupees 1,850 (painting roof, Rupees 940) (altering platform, Rupees 210) (planting and watering trees in station compounds, Rupees 2,000).
	Total, Head IV...	7,070	.....	General repairs, Rupees 1,100 (porters' lines at Coopum, Rupees 800).
	Maintenance by Contract ... ..	.....	.....	
	Total, Head V...	.....	.....	
	Unclassified Expenditure—			
	(1.)—Plantations ... ..	.....	.....	
	(2.)—Tools and Plant	1,600	.....	
	(3.)—Loss on Stores	50	.....	Includes repairs of Ballast wagons.
	Total, Head VI...	1,650	.....	
	Grand Total...	39,810	3,254	

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
II.	Maintenance, Permanent-way—	Rs.	Rs.	One Gang consisting of—
	(1.)—Wages—			1 Maistry ... 10 8 0
	* 40 Gangs, at Rs. 46-6-0 × 6	11,130	† 1,605	7 Coolies, at Rs. 5-2-0 ... 35 14 0
	18 Lorrymen, at „ 5-8-0 × 6	594	.....	*Total... 46 6 0
	† Establishment, at „ 1,129-8-0 × 6	6,777	.....	4 Extra gangs for renew- 4 Maistries, at Rs. 10-8 42 0 0
	(2.)—Materials—			ing pots bet- 23 Coolies, at „ 5-1 143 8 0
	Ballast, C. yds. 10,000, at 8 As.	2,500	2,500	ween Ave- 16 Trolly 82 0 0
	Rails	6,318	.....	nashy and Coolies, at „ 5-2
	Sleepers	34,302	55,890	Coimbatore. † Total... 267 8 0
	Total, Head II...	61,621	59,995	× 6
III.	Repairs, Wages, and Materials—			Establishment—
	(1.)— { Bridges and culverts ... 1,200	900	.....	2 Inspectors' Assis- at Rs. 30 60 0 0
	{ Tunnels ... ..	.....	.....	tants
	{ Earthwork	600	.....	5 Section Maistries, at „ 20 100 0 0
	{ Fences	360	.....	4 Inspectors' Writers, at „ 15 60 0 0
	(2.)— { Roads and level crossings ... 120	.....	.....	112 Watchmen, at „ 6-8 728 0 0
	{ Miscellaneous	420	.....	4 Carpenters, at „ 22-8 90 0 0
	Total, Head III...	2,700	900	3 Smiths, at „ 20 60 0 0
	Repairs, Wages, and Materials—			3 Hammermen, at „ 7 21 0 0
	(1.)— { Station buildings, yards, etc. ... 2,400	1,132	.....	3 Bellows Boys, at „ 3-8 10 8 0
IV.	{ Signals, gate lodges, etc. ... 120	.....	.....	† Total... 1,129 8 0
	(2.)—Staff quarters	1,500	.....	General repairs, Rupees 1,200 (protective works, Rupees 900).
	Total, Head IV...	4,020	1,132	
	Maintenance by Contract ... ..	.....	.....	
	Total, Head V...	.....	.....	
	Unclassified Expenditure—			
	(1.)—Plantations ... ..	.....	.....	
	(2.)—Tools and Plant	1,800	.....	
	(3.)—Loss on Stores	50	.....	
	Total, Head VI...	1,850	.....	Includes repairs of Ballast wagons.
	Grand Total...	70,191	62,027	

*Proceedings of the Madras Government, Public Works Department,
20th March 1873.*

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 30TH JUNE 1873.
4th Division, South-West Line, from Coimbatore to Beypore.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line ... { Double ... Single ...	104½	.....	104½
Sidings ...	9½	.....	.....
Total...	.....	.....	104½

Head.	Description of Works.	Ordinary	Extra-ordinary.	Remarks.
II.	Maintenance, Permanent-way—	Rs.	Rs.	One Gang consisting of—
	(1.)—Wages—			Rs. A. P.
	• 27 Gangs, at Rs. 78 × 6	12,636	.....	1 Maistry... 12 0 0
	20 Lorrymen, at „ 7 × 6	840	.....	11 Men, at 6 Rs. 66 0 0
	† Establishment, at „ 734 × 6	4,404	.....	* Total... 79 0 0
	(2.)—Materials—			Establishment—
	Ballast, C. yds. 8,192, at 6 As...	3,072	.....	4 Inspectors' Assistants, at Rs. 30 120 0 0
	Rails ...	330	.....	4 Do. Writers, at „ 15 60 0 0
	Sleepers ...	30,000	6,650	56 Watchmen, at „ 6 336 0 0
	Total, Head II...	51,282	6,650	7 Store Lascars, at „ 6 42 0 0
III.	Repairs, Wages, and Materials—			4 Carpenters, at „ 20 80 0 0
	(1.)— { Bridges and culverts ...	1,000	18,000	3 Smiths, at „ 20 60 0 0
	{ Tunnels ...	.....	.....	3 Hammermen, at „ 8 24 0 0
	{ Earthwork ...	600	.....	• 3 Bellows Boys, at „ 4 12 0 0
	{ Fences ...	6,000	.....	† Total... 731 0 0
	{ Roads and level crossings ...	350	.....	General repairs, Rupees 1,000 (protective works,
	{ Miscellaneous ...	200	.....	Rupees 18,000).
	Total, Head III...	8,150	18,000	Repairing also fence and building stone wall.
	Repairs, Wages and Materials—			
	(1.)— { Station buildings, yards, etc... 1,800	.....	.....	Stations, Rupees 600 (roofs, Rupees 600) turn-
IV.	{ Signals, gate lodges, etc. ... 300	.....	.....	table and water column, Rupees 400 (altering
	(2.)— Staff quarters ... 750	.....	.....	Beypore goods shed platform, Rupees 200).
	Total, Head IV...	2,850	.....	General repairs to bungalows.
	Maintenance by Contract ...	.....	.....	
	Total, Head V...	.....	.....	
	Unclassified Expenditure—			
	(1.)—Plantations ...	.....	.....	
	(2.)—Tools and Plant ... 1,800	.....	.....	
	(3.)—Loss on Stores ... 50	.....	.....	Includes repairs of Ballast wagons.
	Total, Head VI...	1,850	.....	
	Grand Total...	64,132	24,650	

*Proceedings of the Madras Government, Public Works Department,
20th March 1873.*

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 30TH JUNE 1873.
1st Division, North-West Line, from Arconum to Cuddapah.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line... { Double ... Single ...	119½	.....	119½
Sidings ...	12½	.....	.....
Total...	.....	.....	119½

Head.	Description of Works.	Ordinary	Extra-ordinary.	Remarks.
II.	Maintenance, Permanent-way—	Rs.	Rs.	One Gang consisting of—
	(1.)—Wages—			Rs. A. P.
	• 40 Gangs, at Rs. 46 × 6	11,040	.....	1 Maistry ... 11 0 0
	10 Lorrymen, at „ 5 × 6	300	.....	7 Coolies, at Rs. 5 ... 35 0 0
	† Establishment, at „ 1,718-8 × 6	10,311	.....	* Total... 46 0 0
	(2.)—Materials—			Establishment—
	Ballast, C. yds. 8,000, at 5 As. ... 2,500	.....	.....	1 Inspector of Night Watchmen... 50 0 0
	Rails ... 3,434	.....	.....	1 Sub-Inspector ... 50 0 0
	Sleepers ... 2,487	.....	.....	4 Inspectors' Assistants, at Rs. 30 120 0 0
	Total, Head II...	20,072	.....	1 Timckeeper ... 25 0 0
III.	Repairs, Wages, and Materials—			4 Inspectors' Writers, at Rs. 15 60 0 0
	(1.)— { Bridges and culverts ... 1,100	4,000	.....	5 Section Maistries, at „ 15 75 0 0
	{ Tunnels ...	.....	.....	7 Store Watchmen, at „ 7-8 52 8 0
	{ Earthwork ... 1,200	.....	.....	100 Line Watchmen, at „ 7 1,050 0 0
	{ Fences ... 1,500	.....	.....	1 Blacksmith ... 80 0 0
	{ Roads and level crossings ... 600	.....	.....	2 Do., at Rs. 20 40 0 0
	{ Miscellaneous ... 200	.....	.....	3 Hammermen, at „ 6 18 0 0
	Total, Head III...	4,600	4,000	3 Bellows Men, at „ 5 15 0 0
	Repairs, Wages, and Materials—			3 Carpenters, at „ 20 60 0 0
	(1.)— { Station buildings, yards, etc. ... 2,650	.....	.....	1 Painter... 10 0 0
IV.	{ Signals, gate lodges, etc. ... 400	.....	.....	1 Tinker... 10 0 0
	(2.)— Staff quarters ... 1,200	.....	.....	1 Sawyer ... 10 0 0
	Total, Head IV...	4,250	.....	2 Do., at Rs. 7 14 0 0
	Maintenance by Contract ...	.....	.....	3 Store Coolies, at „ 5 15 0 0
	Total, Head V...	.....	.....	2 Lascars, at „ 7 14 0 0
	Unclassified Expenditure—			† Total... 1,718 8 0
	(1.)—Plantations ...	.....	.....	General repairs, Rupees 1,100 (protective works,
	(2.)—Tools and Plant ... 1,500	.....	.....	Rupees 4,000).
	(3.)—Loss on Stores ... 50	.....	.....	Metalling, Rupees 200 (repairing gates, Rupees
	Total, Head VI...	1,550	.....	400).
	Grand Total...	40,472	4,000	

Proceedings of the Madras Government, Public Works Department,
20th March 1873.

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 30TH JUNE 1873.
2nd Division, North-West-Line, from Cuddapah to Goondacul.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line ... { Double ... Single ...	111		111
Sidings ...	7½		
Total...			111

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
II.	Maintenance, Permanent-way—	RS.	RS.	One Gang consisting of—
	(1.)—Wages—			RS. A. P.
	* 33 Gangs, at Rs. 40 × 6	9,120		1 Maistry ... 10 0 0
	8 Lorrymen, at „ 5 × 6	240		6 Coolies, at Rs. 5 ... 30 0 0
	† Establishment, at „ 1,732.8 × 6	10,395		* Total... 40 0 0
	(2.)—Materials—			Establishment—
	Ballast, C. yds. 8,640, at Rs. 0.3.8 ...	1,980		2 Inspectors of Night Watchmen. 56 0 0
	Rails ...	250		4 Do. Assistants, at Rs. 30. 120 0 0
	Sleepers ...	2,400		1 Timekeeper ... 12 0 0
	Total, Head II...	24,355		1 Section Maistry and Writer ... 25 0 0
III.	Repairs, Wages, and Materials—			3 Do. Maistries, at Rs. 20 ... 60 0 0
	(1.)— { Bridges and culverts ...	1,240	2,620	3 Do. Writers, at „ 15 ... 45 0 0
	{ Tunnels ...			6 Store Watchers, at „ 7 ... 42 0 0
	{ Earthwork ...	635		1 Carpenter Maistry ... 30 0 0
	{ Fences ...	1,018		1 Carpenter ... 23 0 0
	{ Roads and level crossings ...	187		1 Do. ... 22 0 0
	{ Miscellaneous ...	1,134		2 Do. at Rs. 20 ... 40 0 0
	Total, Head III...	4,214	2,620	3 Blacksmiths, at Rs. 20 ... 60 0 0
	Repairs, Wages, and Materials—			1 Do. ... 16 0 0
	(1.)— { Station buildings, yards, etc. ...	1,426		3 Hammermen, at Rs. 8 ... 24 0 0
IV.	{ Signals, gate lodges, etc. ...	100		1 Do. ... 6 8 0
	(2.)—Staff quarters ...	626		3 Bellows Boys, at Rs. 6 ... 18 0 0
	Total, Head IV...	2,152		1 Do. ... 4 0 0
	Maintenance by Contract ...			1 Painter ... 20 0 0
	Total, Head V...			3 Store Coolies, at Rs. 6 ... 18 0 0
	Unclassified Expenditure—			2 Engineer's Lascars, at Rs. 7 ... 14 0 0
	(1.)—Plantations ...			177 Watchmen, at „ 6 ... 1,062 0 0
	(2.)—Tools and Plant ...	1,000		† Total... 1,732 8 0
	(3.)—Loss on Stores ...	50		General repairs, Rupees 1,240 (protective works, Rupees 2,620).
	Total, Head VI...	1,050		
	Grand Total...	31,901	2,620	

Proceedings of the Madras Government, Public Works Department,
20th March 1873.

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 30TH JUNE 1873.
3rd Division, North-West Line, from Goondacul to Raichore, including Bellary Branch.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double ... Single ...	108		108
Sidings ...	10½		
Total...			108

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
II.	Maintenance, Permanent-way—	RS.	RS.	One Gang consisting of—
	(1.)—Wages—			RS. A. P.
	* 63 Gangs, at Rs. 55 × 6	20,790		1 Maistry ... 13 0 0
	8 Lorrymen, at „ 7 × 6	336		7 Coolies, at Rs. 6 ... 42 0 0
	† Establishment, at „ 1,785.8 × 6	10,713		* Total... 55 0 0
	(2.)—Materials—			Establishment—
	Ballast, C. yds. 10,000, at 4 Annas.	2,500		1 Inspector of Night Watchmen. 18 0 0
	Rails ...	500		1 Sub-Inspector ... 50 0 0
	Sleepers ...	1,500		4 Inspectors' Assistants, at Rs. 30 120 0 0
	Total, Head II...	36,339		4 Do. Writers, at „ 20 80 0 0
III.	Repairs, Wages, and Materials—			8 Section Maistries, at „ 18 144 0 0
	(1.)— { Bridges and culverts ...	2,000	3,000	6 Store Watchmen, at „ 7 42 0 0
	{ Tunnels ...	1,000		2 Time-keepers, at „ 25 50 0 0
	{ Earthwork ...	1,000		1 Painter ... 20 0 0
	{ Fences ...	400		1 Carpenter ... 20 0 0
	{ Roads and level crossings ...	500		1 Do. ... 18 0 0
	{ Miscellaneous ...			1 Do. ... 60 0 0
	Total, Head III...	4,900	3,000	4 Do., at Rs. 15 60 0 0
	Repairs, Wages, and Materials—			1 Blacksmith ... 26 0 0
	(1.)— { Station buildings, yards, etc. ...	600		2 Do., at Rs. 20 40 0 0
IV.	{ Signals, gate lodges, etc. ...	100		4 Do., at „ 15 60 0 0
	(2.)—Staff quarters ...	300		4 Hammermen, at Rs. 8 32 0 0
	Total, Head IV...	1,000		3 Do., at „ 7 21 0 0
	Maintenance by Contract ...			7 Bellows Boys, at „ 5 35 0 0
	Total, Head V...			3 Carpenters' Coolies, at „ 6 18 0 0
	Unclassified Expenditure—			5 Store Coolies, at „ 6 30 0 0
	(1.)—Plantations ...			4 Coolies, at „ 6 24 0 0
	(2.)—Tools and Plant ...	1,500		107 Watchmen, at „ 7.8 802 8 0
	(3.)—Loss on Stores ...	50		3 Do., at „ 7 21 0 0
	Total, Head VI...	1,550		2 Lascars, at „ 7 14 0 0
	Grand Total...	43,789	3,000	2 Gun Lascars, at „ 7 14 0 0

MADRAS,
25th February 1873.

B. ANDERSON,
Chief Engineer.

*Proceedings of the Madras Government, Public Works Department,
20th March 1873.*

No. 488.

ORDER THEREON, 20th March 1873, No. 874.

RAILWAY, No. 14.

ORDERED that this list be forwarded
to the Government of India with refer-
ence to their Order, dated 10th May
1872, No. 656 A. R.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R. E.,
Secretary to Government.

No. 489.

(DOCKET No. 875, dated 20th March 1873.)

COPY of the above forwarded to the Government of India.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

Exd. S. T. Austin.

A. I. CORRU

MADRAS RAILWAY.

13

Abstract of Estimates for Maintenance—Half year ending 30th June 1873.

HEADS OF CHARGES.	1st Division S. W. Line.		2nd Division S. W. Line.		3rd Division S. W. Line.		4th Division S. W. Line.		1st Division N. W. Line.		2nd Division N. W. Line.		3rd Division N. W. Line.	
	Madras to Jolarpett		Jolarpett to Mullap- poram including Bangalore Branch		Mullapporam to Jambatore		Jambatore to Beyyoor		Arcotum to Luddapah		Luddapah to Coondacul		Coondacul to Raichore including Bellary Branch	
	131½ Miles/Single/		133½ Miles/Single/		121½ Miles/Single/		104½ Miles/Single/		119½ Miles/Single/		111 Miles/Single/		108 Miles/Single/	
	Amount.	Per Mile.	Amount.	Per Mile.	Amount.	Per Mile.	Amount.	Per Mile.	Amount.	Per Mile.	Amount.	Per Mile.	Amount.	Per Mile.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Head No. II. { Ordinary.	43,376	330	26,022	195	61,621	506	51,282	492	30,072	252	24,385	220	36,339	337
Head No. II. { Extraordinary.	3,354	25	"	"	59,995	493	6,650	64	"	"	"	"	"	"
Head No. III. { Ordinary.	6,000	46	5,068	38	2,700	22	8,150	78	4,600	38	4,214	38	4,900	45
Head No. III. { Extraordinary.	23,500	179	3,254	25	900	8	18,000	172	4,000	33	2,620	24	3,000	28
Head No. IV. { Ordinary.	3,600	27	7,070	53	4,020	33	2,850	27	4,250	36	2,152	19	1,000	9
Head No. IV. { Extraordinary.	"	"	"	"	1,132	9	"	"	"	"	"	"	"	"
Head No. V. { Ordinary... ..	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Head No. V. { Extraordinary, ...	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Head No. VI. { Ordinary.	1,050	8	1,650	12	1,850	15	1,850	18	1,550	13	1,050	9	1,550	14
Head No. VI. { Extraordinary.	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Total...	80,880	615	43,064	323	132,218	1,086	88,782	851	44,472	372	37,421	310	46,789	433

MADRAS RAILWAY,
Chief Engineer's Office,

25th February 1873.

Styminnifmrrch
Chief Auditor of

R. Krishna Rao
Off. Secy. Engineer

W. J. ...
Agent, Madras

W. J. ...
Chief Engineer.

but of this the following sections will be

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 30th June 1873.
 1st Division S. West Line From Madras to Pottayhalli

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double Single	" 13 1/2	"	13 1/2
Sidings.	14 1/4	"	
Total.			13 1/2

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
Maintenance, Permanent Way.				
(1.) WAGES.				
	* 4 1/2 Gangs at Rs 47 x 6	13,254	"	1 Gang consisting of as follows: 1. Working 12 2. Sectional maintenance at 15/ Rs 60 3. Sundry 35 Total Rs 571-35
	* 3 Gangs at Rs 103 x 6	"	1,854	* Total Rs 47 1 Gang consisting of as follows: 1. Working 3 2. Engineer's Section 7/ 14 3. Sundry 5/ 95 Total Rs 103
	2 Establishment at Rs 1087 x 6	10,122	"	1 Engineer at Rs 100 1 Sectional Maintenance at 30/- 120 2 Sundry at Rs 50/- 100 Total Rs 250
(2.) MATERIALS.				
	Ballast Rs 10000 at 4 Annas	1000	1500	1 Stone boulder 20 4 English at 10/- at 30/- 120 2 Sundry at Rs 50/- 100 Total Rs 250
	Rails	7000	"	
	Sleepers	12000	"	
	Total Head II.	43,376	3,354	
Repairs, Wages and Materials.				
	(1) Bridges and Culverts	2500	17,500	General repairs Rs 2500 / Estimated Works Rs 16000 / Bridges damaged by floods Rs 1500 /
	(2) Earthwork	1000	6000	Ditching in tanks Rs 6000 /
	Fences	1000	"	Planting and strengthening also fences
	Roads and Level Crossings	1000	"	General repairs Rs 250 / Working heavy road leading to Tellico Cross Rs 750 /
	Miscellaneous	500	"	
	Total Head III.	6000	23,500	
Repairs, Wages and Materials.				
	(1) Station buildings, yards, &c.	2500	"	General repairs Rs 1500 / Altering Stations Rs 1000 /
	(2) Signals, Gate Lodges, &c.	100	"	General repairs to Bangalore.
	(3) Staff Quarters	1000	"	
	Total Head IV.	3600	"	
Maintenance by Contract.				
	Total Head V.	"	"	
Unclassified Expenditure.				
	(1) Plantations	"	"	
	(2) Tools and Plant	1000	"	
	(3) Loss on Stores	50	"	
	Total Head VI.	1050	"	
	Grand Total	54026	26,854	

but of this the following sections will be

MADRAS RAILWAY,
 Chief Engineer's Office,
 25th March 1873.

Michael Buchan.
 Chief Engineer.

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 30th June 1873.

2nd Division S. West Line From *Madurai* to *Madurai and including Bangalore Branch*

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double. Single.	133 ¹ / ₄	"	133 ¹ / ₄
Sidings.	10 ³ / ₄	"	
Total...			133 ¹ / ₄

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
Maintenance, Permanent Way.				
(1.) WAGES.		Rupees.	Rupees.	
	* 523 Gangs. at Rs. 32 x 6	10,176	"	1 Gang consisting of Rs. no. 8
	23. Lorrymen. at 16 x 6	828	"	1. Muddy at 4/8. 9. 8. "
	* Establishment. at 1453 x 6	8,718	"	5. Lilies at 4/8. 22. 8. "
(2.) MATERIALS.				Total Rs. 32. . . .
	Ballast C. 1746 16000. at 14. 11. 6	4,500	"	Establishment
	Rails... ..	800	"	1 Inspector of Night Watchmen Rs. 50. . . .
	Sleepers.	1,000	"	4. Inspection Assistant at 30/ 120. . . .
	Total Head II.	2,6022		5. at 15/ 75. . . .
Repairs, Wages and Materials.				
(1) { Bridges and Culverts... ..	1718	3,254		1. Signal Officer at 20. . . .
	Tunnels... ..	"	"	1. Horse Whiskers 20. . . .
	Earthwork... ..	2,000	"	2. Sweepers at 1/ 14. . . .
	Fences... ..	300	"	10. Horse Whiskers 20. . . .
(2) { Roads and Level Crossings... ..	800	"	"	Total Rs. 1453. . . .
	Miscellaneous... ..	250	"	1. Hammerman 6. . . .
	Total Head III.	5,068	3,254	1. Bellows Boy 3. . . .
Repairs, Wages and Materials.				
(1) { Station buildings, yards, &c.	5000	"	"	1. Carpenter 15. . . .
	{ Signals, Gate Lodges, &c.	170	"	1. Smith 15. . . .
(2) Staff Quarters	1,900	"	"	2. Sweepers at 1/ 14. . . .
	Total Head IV.	7,070	"	10. Horse Whiskers 20. . . .
Maintenance by Contract.				
	Maintenance by Contract.	"	"	Total Rs. 1453. . . .
	Total Head V.	"	"	
Unclassified Expenditure.				
(1.) Plantations.	"	"	"	
(2.) Tools and Plant... ..	1600	"	"	
(3) Loss on Stores.	50	"	"	
	Total Head VI.	1,650	"	
	Grand Total...	39,810	3,254	

General repairs Rs. 1850. Clearing roofs Rs. 940. Altering Platform Rs. 210. Planting and watering trees and plants Rs. 200.

General repairs Rs. 1100. Station Lanes at Coimbatore Rs. 800.

Includes repairs of Ballast Wagons.

MADRAS RAILWAY,
Chief Engineer's Office,
25.8.29 January 1873.

Michael Buckle
Chief Engineer.

but of this the following sections will be

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 30th June 1873.
3rd Division S. West Line From Mullaperian to Tondiarpet.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double. Single.	121 ³ / ₄		121 ³ / ₄
Sidings.	10 ³ / ₄		
			Total... 121 ³ / ₄

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
	Maintenance, Permanent Way.			
	(1.) WAGES.			1 Gang consisting of Rs. Rs. Rs. 1 Manby Rs. 10. 8. 0. 7 Carbs at 5/2/- 35. 14. . x Total Rs. 46. 6. .
	40. Gangs at Rs. 46-6-0 x 6	11,130	1,605	4 Extra Gangs for Muzzumy, 4 Manby at 10-8-0 Rs. 42-0-0 28 Carbs at 5-2-0 Rs. 148-8-0 16 Shelly Carbs at 5-2-0 Rs. 82-0-0 Total Rs. 267-8-0 x 6
	18. Lorrymen at 5-8-0 x 6	594		
	Establishment at 1129-8-0 x 6	6,777		Establishment 2 Inspector Assistants at 30/- Rs. 60-0-0 5 Section Assistants at 20/- Rs. 100-0-0 4 Inspector Writers at 15/- Rs. 60-0-0 112 Watchmen at 6-8-0 Rs. 768-0-0 4 Sweepers at 22-8-0 Rs. 90-0-0 3 Drivers at 20/- Rs. 60-0-0 3 Runners at 10/- Rs. 30-0-0 3 Bellmen at 10/- Rs. 30-0-0 Total Rs. 1,129-8-0 x 6
	(2.) MATERIALS.			
	Ballast C. No. 10000- at 8 Annas	2,500	2,500	
	Trails	6,318		
	Sleepers	34,302	55,890	
	Total Head II.	41,821	57,995	
	Repairs, Wages and Materials.			
	(1) Bridges and Culverts	1,200	900	General repairs Rs. 1200, Protective Works Rs. 900/
	Tunnels			
	(2) Earthwork	600		
	Fences	360		
	Roads and Level Crossings	120		
	Miscellaneous	420		
	Total Head III.	2,700	900	
	Repairs, Wages and Materials.			
	(1) Station buildings, yards, &c.	2,400	1,132	General repairs Rs. 2400, Alterations and additions to Station Rs. 1132/
	{ Signals, Gate Lodges, &c.	120		
	(2) Staff Quarters	1,500		General repairs to Bangalore.
	Total Head IV.	4,020	1,132	
	Maintenance by Contract.			
	Total Head V.			
	Unclassified Expenditure.			
	(1) Plantations.			
	(2) Tools and Plant	1,800		
	(3) Loss on Stores.	50		
	Total Head VI.	1,850		
	Grand Total...	70,191	62,027	

MADRAS RAILWAY,
 Chief Engineer's Office,
 25th February 1873.
 Michael Anderson
 Chief Engineer.

but of this the following sections will be

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending

~~30 June~~

1873.

4th Division S. West Line

From Cambridge

to Bedford

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double.	"	"	"
Single.	104 $\frac{1}{4}$	"	104 $\frac{1}{4}$
Sidings.	9 $\frac{1}{2}$		
Total...			104 $\frac{1}{4}$

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
	Maintenance, Permanent Way.			
II.	(1) WAGES.			
	* 27 Gangs. at Rs 78 x 6	12,636	"	1 Gang consisting of R. & P.
	20. Lorrymen. at — 7 x 6	840	"	1. Utility — 12. — "
	* Establishment. at — 734 x 6	4,404	"	" " — at 6/ — 66. — "
	(2) MATERIALS.			* Total Rs 78. — "
	Ballast C. 192. at 6 annas	3,072	"	Establishment —
	Rails. — — — — —	330	"	4. Inspectors' Assistants — at 30/ Rs 120. — "
	Sleepers. — — — — —	300.00	6.50	4. — do. — " — 61 — 36. — "
	Total Head II.	21,232	6.50	56. Watchmen — — — — — 61 — 42. — "
	III.			7. Horse Legions — — — — — 20/ — 80. — "
	(1) Repairs, Wages and Materials.			4. Carpenters — — — — — 20/ — 60. — "
	{ Bridges and Culverts. — — — — — 1,000		18.00	3. Smiths — — — — — 8/ — 24. — "
	{ Tunnels. — — — — — 600		"	3. Hammermen — — — — — 4/ — 12. — "
	{ Earthwork. — — — — — 6,000		"	* Total Rs 734. — "
	{ Fences. — — — — — 350		"	
	{ Roads and Level Crossings. — — — — — 200		"	
	{ Miscellaneous. — — — — — 81.50		18.00	
	Total Head III.	8,150	18.00	
	IV.			
	Repairs, Wages and Materials.			
	{ Station buildings, yards, &c. — — — — — 1,800		"	
	{ Signals, Gate Lodges, &c. — — — — — 300		"	
	{ Staff Quarters — — — — — 750		"	
	Total Head IV.	2,850	"	
	V.			
	Maintenance by Contract. — — — — —	"	"	
	Total Head V.	"	"	
	VI.			
	Unclassified Expenditure.			
	{ (1) Plantations. — — — — —	"	"	
	{ (2) Tools and Plant. — — — — — 1,800		"	
	{ (3) Loss on Stores. — — — — — 50		"	
	Total Head VI.	1,850	"	
	Grand Total.	64,132	24.650	

General repairs Rs 1000 / Protective Works Rs 18000 /

Repairs, also fence and building stone wall.

Station Rs 600 / Gangs Rs 600 / Survey & Protective Column Rs 400 / Mining & Deepen Goods Shed Station Rs 200 /

General repairs to Bangalore.

Includes repairs of Ballast Wagon.

164 - one head

but of this the following sections will be

MADRAS RAILWAY,

Chief Engineer's Office,

25 February 1873.

Chief Engineer.

Michael Dineen

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 30th June 1873.
1st Division West Line From *Secunderabad* to *Taddipatri*

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double Single	119 ¹ / ₂	"	119 ¹ / ₂
Sidings.	12 ³ / ₄	"	
			Total... 119 ¹ / ₂

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
II.	(1.) WAGES.			
	40. Gangs. at Rs 46. x 6	11040	"	1 st Emp Employing of Rs. 2
	10. Lorrymen. at 5 x 6	300	"	7 Gangs at 5/- 35/-
	* Establishment. at 1718.8 x 6	10311	"	* Total Rs 46. - - -
	(2.) MATERIALS.			Establishment.
	Ballast C 70ds 8000. at 5 Annas	2500	"	1. Inspector of Light Workmen - Rs 50 - - -
	Rails... ..	3434	"	1. Sub-Inspector - Rs 50 - - -
	Sleepers.	2487	"	1. Inspector of Carriage - Rs 20 - - -
Total Head II		30072	3	1. Sub-Inspector of Carriage - Rs 20 - - -
III.	Repairs, Wages and Materials.			
	(1) Bridges and Culverts...	1100	4000	General repairs Rs 1100, Protective Works Rs 4000,
	Tunnels... ..	"	"	
	Earthwork.	1200	"	
	(2) Fences... ..	1500	"	
	Roads and Level Crossings.	600	"	
	Miscellaneous... ..	200	"	
	Total Head III	4600	4000	
IV.	Repairs, Wages and Materials.			
	(1) Station buildings, yards, &c.	2650	"	General repairs Rs 2500, Repairs to station walls &c
	Signals, Gate Lodges, &c.	400	"	Gate lodges. Rs 200, signals. Rs 200, Rs 150,
	Staff Quarters	1200	"	
	(2) Staff Quarters	4250	"	
	Maintenance by Contract.	"	"	
	Total Head IV	4250	"	
V.	Unclassified Expenditure.			
	(1) Plantations.	"	"	
	Tools and Plant... ..	1500	"	
	Loss on Stores.	30	"	
VI.	Total Head VI	1550	"	
	Grand Total...	40472	4000	

but of this the following sections will be

MADRAS RAILWAY,
 Chief Engineer's Office,
25th February 1873.
Michael Anand
 Chief Engineer.

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 30th June 1883.

2nd Division West Line From Juddah to Perambalur

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double. Single.	"	"	"
Sidings.	111	7 1/2	118 1/2
Total...			111

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
II.	(1) WAGES.			
	* 128 Gangs. at Rs 40 x 6	9120		1 Gangs existing at Rs 20.
	* 8 Lorrymen. at 5 x 6	240		1 Lorry at 5/- 30. "
	* Establishment. at 1732.8 x 6	10395		* Total Rs 40 - - -
	(2) MATERIALS.			Establishment.
	Ballast. C. 24 8040. at Rs 2.8	1980		20 Cubic fms of Ballast at Rs 56
	Rails.	250		4 Cubic fms of Ballast at 56/- 120 - - -
	Sleepers.	2400		1 Cubic fms of Ballast at 56/- 120 - - -
	Total Head II	24385		
III.	Repairs, Wages and Materials.			
	(1) { Bridges and Culverts	1240	2620	
	Earthwork.	635		
	Fences.	1018		
	Roads and Level Crossings.	187		
	Miscellaneous.	1134		
	Total Head III	4214	2620	
	(2) { Station buildings, yards, &c.	1426		
	Signals, Gate Lodges, &c.	100		
	Staff Quarters	626		
IV.	Total Head IV	2152		
	Maintenance by Contract.			
	Total Head V			
	Unclassified Expenditure.			
	(1) Plantations.	"		
	(2) Tools and Plant.	1000		
	(3) Loss on Stores.	80		
	Total Head VI	1080		
	Grand Total...	31801	2620	

Includes repairs of Ballast Wagon.

General repairs. Rs 1240 of Protective Works Rs 2620.

* Total Rs 1732.8 - -

2 Engineer's Messes. 14 - - -

177 of Ballast Wagon. 1082 - - -

but of this the following sections will be

MADRAS RAILWAY,
Chief Engineer's Office,
25th February 1883.

Michael Ananda.
Chief Engineer.

14/11/1873
Ph. 20 March 1873
487.

Railway Department.

CONSULTING ENGINEER'S OFFICE,

No. 132

From

LIEUT.-COLONEL J. H. M. SHAW STEWART, R.E.,
Consulting Engineer for Railways,

To

COLONEL G. W. WALKER, R.E.,
Secretary to Government,
Public Works Department,
Fort Saint George.

SIR,

With reference to the Order of Government No. 1365 dated 31st May 1872, I have the honour to forward for submission to the Government of India, lists of maintenance sanctions in force in the Engineering department of the Madras Railway, for the half-year ending 30th June 1873.

In the 3rd Division of the North-West line, the expenditure exhibited is for a distance of 108 miles, from Gondal to Raichore, including the Bellary branch but of this the following sections will be

201
Chargeable to Capital only for a portion
of the half-year.

From Pondicherry to
Veraspore, 18 miles, will be charge-
able to Capital up to the 15th
January 1873.

From Veraspore to
Bellary 14 miles, up to the 28th
February 1873.

From the Tonga-
budra river to Raichore, 17 miles,
up to the 14th March 1873.

I have the honour to be
Sir

Your most obedient servant,

Madras 3
3 March 1873
W. H. Parker Secy. R.E.
for the Engineer of Railways

20.3.1873

1863
No 21 Aug 11/2 82 573-574

Dec 24/373 with 35 shms. 49.

Wing

7 June 1972
1972/6/7

1852/1

875

Backed that ~~the~~ that the forwarded
to the J. J. with reference to their order of 11/18 March/92
at 556 Pa. 22
875

~~529 1788 7/28 10~~

RAILWAY DEPARTMENT

From

The Consulting Engineer

정

The Secretary to Government
P. W. Department,
Fort Saint George

Dated 13th Dec 1871
Recd. 14th Dec 1871

No. 1325

England.

Adelmannsberg

Handwritten: *Handwritten*

Conf. No. 100

1908 ending

1873

It was a