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MADRAS RECORD OFFICE

Government of Madras

Public works DEPARTMENT

G.O. No. / ~~B.P. No.~~	2165-66	Press / Mis.
Dated	29.8	1973 / 195

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 29th August 1873.

No. 500. Read the following letter 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, dated Madras, 7th August 1873, No. 419:—

ADVERTING to Public Works Resolution, No. 656-A. R., dated 10th May 1872, printed with the Order of Government of Madras, No. 1,365, of the 31st idem, I have the honour to submit, for transmission to the Government of India, lists of maintenance sanctions in force in the Engineering Department of the Madras Railway during the half-year ending 31st December 1873.

MADRAS RAILWAY.

Abstract of Estimates for Maintenance, half-year ending 31st December 1873.

Heads of Charges.		First Division South-West Line. Madras to Jollarpett. 131¼ Miles (single).		Second Division South-West Line. Jollarpett to Mullapooram, including Bangalore Branch. 133¼ Miles (single).		Third Division South-West Line. Mullapooram to Pothanoor. 121¼ Miles (single).		Fourth Division South-West Line. Pothanoor to Buypore. 104¼ Miles (single).		First Division North-West Line. Arconum to Cuddapah. 119¼ Miles (single).		Second Division North-West Line. Cuddapah to Goondacul. 111 Miles (single).		Third Division North-West Line. Goondacul to Raichore, including Bellary Branch. 103 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 ...	45,432	346	29,520	222	58,166	479	47,044	450	31,117	260	25,340	228	35,324	327
	Extraordinary ...	4,354	33	...	...	54,418	448	7,000	67	...	...	..	...	...	...
Head No. III	Ordinary ...	6,000	45	4,263	32	2,220	18	6,300	60	7,240	61	4,462	40	5,900	55
	Extraordinary ...	26,800	204	1,907	14	3,500	29	4,300	41	8,600	72	6,440	58	...	...
Head No. IV	Ordinary ...	3,500	27	5,100	83	1,020	8	8,330	82	4,943	41	2,746	25	4,008	37
	Extraordinary ...	...	...	...	...	1,132	9	...	...	...	...	...	...	...	...
Head No. V	Ordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Extraordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Head No. VI	Ordinary ...	1,550	12	1,050	12	1,050	9	1,650	16	800	7	550	5	1,550	14
	Extraordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...		87,786	607	42,445	818	1,21,506	1,000	69,624	666	52,705	441	39,538	356	46,782	433

(Signed) R. K. WILLIAMS,
Offg. Examiner of Railway Accounts.
(Signed) T. H. GOING,
Acting Chief Engineer.

(Signed) F. CHURCH,
Chief Auditor.
(Signed) W. B. WRIGHT,
Acting Agent and Manager.

MADRAS,
18th July 1873.

Proceedings of the Madras Government, Public Works Department, 29th August 1873.

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 31ST DECEMBER 1873.

First Division, South-West Line, from Madras to Jollarpett.

Miles Maintained.		Departmentally.	By Contract.	Total.
Main Line.	Double	.....	.....	.....
	Single	131¼	.....	131¼
Sidings		14½	.....	.....
	Total...	.....	.....	131¼

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
		Rs.	Rs.	
II.	*Maintenance, Permanent-way—*			One Gang consisting of—
	(1.)—Wages—			No. Rs. / No. Rs.
	a 47 Gangs, at Rs. 47×6...	13,254	...	1 Maistry ... 13 / 1 Maistry ... 8
	b 3 Do. at ,, 103×6...	...	*d* 1,854	7 Men, at Rs. 5 ... 35 / 19 Men, at Rs. 5... 95
	c Establishment, at ,, 1,538×6...	9,228	...	*a* Total... 47 / *b* Total...103
				Establishment—
				4 Section Maistries, at Rs. 15 60 0 0
				4 Inspectors' Writers, at ,, 20 80 0 0
				3 Smiths, at ,, 20 60 0 0
				3 Hammermen, at ,, 6 18 0 0
				3 Bellows Boys, at ,, 5 15 0 0
				3 Carpenters, at ,, 20 60 0 0
				2 Engineer's Lascars at ,, 7 14 0 0
				4 Inspectors' do. at ,, 5 20 0 0
				143 Watchers, at ,, 7 1,001 0 0
				1 Timekeeper ... ,, 20 0 0
				2 Inspectors' Assistants, at ,, 30 60 0 0
				2 Do. do. at ,, 40 80 0 0
				1 Sub-Inspector ... ,, 50 0 0
				c Total... 1,538 0 0
	(3.)—Materials—			
	Ballast, C yds. 18,000, at 4 As.	2,000	*d* 2,500	*d* For renewing laterite with sand ballast on Section I.
	Rails	7,000	...	
	Sleepers	14,000	...	
	Total, Head II...	45,482	4,354	
III.	*Repairs, Wages, and Materials—*			*e*
	(1.)—Bridges and culverts ...	2,500	*e* 12,800	General repairs, Rupees 2,500 (Protective works, Rupees 10,000).
	(1.)—Tunnels	...	...	Damaged bridges, Rupees 700 (Bridge Establishment Rupees 1,200).
				Renewing timber-topped bridges with W. I. Girders, Rupees 900.
	(2.)—Earthwork	500	*f* 14,000	*f* General repairs, Rupees 500. (Pitching in tanks, Rupees 12 000.)
				Drains in cutting, Rupees 2,000.
	(2.)—Fences	1,500	*g* ...	*g* Trimming Koracopully fence, and strengthening aloe fence.
	(2.)—Roads and level crossings	1,000	*h* ...	*h* Making Bandy-road leading to Vellore Goods-shed, Rupees 750 (General repairs to Bandy-roads and gates, Rupees 250.)
	(2.)—Miscellaneous	500	...	
	Total, Head III...	6,000	26,800	
IV.	*Repairs, Wages, and Materials—*			
	(1.)—Station buildings, yards, etc...	2 500	...	General repairs.
	(1.)—Signals, gate lodges, etc ...	100	...	
	(2.)—Staff quarters	1,000	...	General repairs to Bungalows and Platelayers' Huts.
	Total, Head IV...	3,600	...	
V.	Maintenance by Contract	...	...	
	Total, Head V...	...	...	
VI.	*Unclassified Expenditure—*			
	(1.)—Plantations	...	...	
	(2.)—Tools and Plant	1,500	...	Includes repairs to Ballast wagons.
	(3.)—Loss on Stores	50	...	
	Total, Head VI...	1,550	...	
	Grand Total...	56,632	31,154	

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 31ST DECEMBER 1873.

Second Division, South-West Line, from Jollarpett to Mullapooram, including Bangalore Branch.

Miles Maintained.		Departmentally.	By Contract.	Total.
Main Line.	Double	.....	.....	.....
	Single	133¼	.....	133¼
Sidings		10¾	.....	.....
Total...		.....	.....	133¼

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
	Maintenance, Permanent-way—	Rs.	Rs.	
	(1.)—Wages—			
	a 53 Gangs, at Rs. 32×6	10,176	...	One Gang consisting of— No. Rs. A. P. 1 Maistry ... 9 8 0; 5 Coolies, at 4-8-0 ... 22 8 0; *a* Total ... 32 0 0
	Lorrymen	...	...	
	b Establishment at ,, 1,474×6	8,844	...	*Establishment*— Rs. A. P.: 1 Night Watchman Inspector ... 50 0 0; 4 Inspectors' Assistants, at Rs. 30 120 0 0; 5 Do. Writers at ,, 15 75 0 0; 1 Store Writer ... ... 20 0 0; 175 Line Watchmen, at ,, 6 1,050 0 0; 1 Blacksmith ... ... 15 0 0; 1 Hammerman ... ... 6 0 0; 1 Bellows Boy ... ... 3 0 0; 1 Carpenter ... ... 15 0 0; 1 Tinker ... ... 15 0 0; 2 Lascars, ... at Rs. 7 14 0 0; 13 Store Watchers ... at ,, 7 91 0 0; *b* Total ... 1,474 0 0
	(2.)—Materials—			
II.	Ballast, C. yds. 1,600, at As. 4-6	4,500	...	
	Rails	5,000	...	
	Sleepers	1,000	...	
	Total, Head II...	29,520	...	
	Repairs, Wages and Materials—			
	(1.)—Bridges and culverts ...	1,718	*c* 1,907	*c* General repairs, Rupees 1,718; (Protective works, Rupees 1,907.)
	(1.)—Tunnels	...	...	
III.	(2.)—Earthwork	1,000	...	
	(2.)—Fences	500	...	
	(2.)—Roads and level crossings ...	800	...	
	(2.)—Miscellaneous	250	...	
	Total, Head III...	4,268	1,907	
	Repairs, Wages, and Materials—			
	(1.)—Station buildings, yards, etc...	4,000	*d* ...	*d* General repairs, Rupees 1,000; (Turn-tables Rupees 60;) Painting Roof, Rupees 940; (Watering and Planting trees in station compounds, Rupees 2,000.)
IV.	(1.)—Signals, gate lodges, etc. ...	100	...	
	(2.)—Staff quarters	1,000	...	
	Total, Head IV...	5,100	...	
V.	Maintenance by Contract	...	...	
	Total, Head V...	...	...	
	Unclassified Expenditure—			
	(1.)—Plantations	...	...	
VI.	(2.)—Tools and Plant	1,600	...	Includes repairs to Ballast wagons.
	(3.)—Loss on Stores	50	...	
	Total, Head VI...	1,650	...	
	Grand Total...	40,538	1,907	

Proceedings of the Madras Government, Public Works Department, 29th August 1873.

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 31ST DECEMBER 1873.

Third Division, South-West Line, from Mullapooram to Pothanore.

Miles Maintained.		Departmentally.	By Contract.	Total.
Main Line.	Double	.....	.....	.....
	Single	121½	.....	121½
Sidings		7½	.....	.....
Total...		.....	.....	121½

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
	Maintenance, Permanent-Way—	Rs.	Rs.	One Gang consisting of— No. Rs. A. P. 1 Maistry ... 10 8 0; 7 Men, at Rs. 5-2-0 ... 35 14 0; *a* Total ... 46 6 0
	(1.)—Wages—			
	a 40 Gangs, at Rs. 46-6×6	11,130	*c* 1,605	
	Lorrymen	...	...	
	b Establishment, at ,, 1,169-8×6	7,017	...	4 Extra gangs for renewing pots between Avenashy and Pothanore: 4 Maistries, at Rs. 10-8 42 0 0; 16 Trolly Coolies, at ,, 5-2 82 0 0; 28 Coolies, at ,, 5-2 143 8 0; *c* Total ... 267 8 0×6
	(2.)—Materials—			
	Ballast, C. yds. 7,500, at 8 As...	1,875	*d* 1,875	
	Rails	5,000	...	
II.	Sleepers	32,244	*d* 50,938	
	Total, Head II...	58,166	54,418	*Establishme t*— 1 Night Watchman Inspector ... 12 0 0; 2 Inspectors' Assistants, at Rs. 30 60 0 0; 5 Section Maistries, at ,, 20 100 0 0; 4 Inspectors' Writers, at ,, 15 60 0 0; 112 Watchmen, at ,, 6.8 723 0 0; 4 Carpenters, at ,, 22-8 90 0 0; 3 Smiths, at ,, 20 60 0 0; 3 Hammermen, at ,, 7 21 0 0; 3 Bellows Boys, at ,, 3 8 10 8 0; 4 Store Lascars, at ,, 7 28 0 0; *b* Total ... 1,169 8 0
	Repairs, Wages, and Materials—			*d* Renewing pot-sleepers between Avenashy and Pothanore.
	(1.)—Bridges and culverts ...	900	*e* 3,500	*e* General repairs, Rupees 900 (Protective works, Rupees 3,500.)
	(1.)—Tunnels	...	...	
III.	(2.)—Earthwork	600	...	
	(2.)—Fences	300	...	
	(2.)—Roads and level crossings ...	120	...	
	(2.)—Miscellaneous	300	...	
	Total, Head III...	2,220	3,500	
	Repairs, Wages, and Materials—			
	(1.)—Station buildings, yards, etc...	600	*f* 1,132	*f* Alterations and additions to Salem Station.
IV.	(1.)—Signals, gate lodges, etc. ...	120	...	
	(2.)—Staff quarters	300	...	
	Total, Head IV...	1,020	1,132	
V.	Maintenance by Contract	...	...	
	Total, Head V...	...	...	
	Unclassified Expenditure—			
	(1.)—Plantations	...	...	
VI.	(2.)—Tools and Plant	1,000	...	Includes repairs to Ballast wagons.
	(3.)—Loss on Stores	50	...	
	Total, Head VI...	1,050	...	
	Grand Total...	62,456	59,050	

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 31ST DECEMBER 1873.

Fourth Division, South-West Line, from Pothanore to Beypore.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. Double	.....	.....	.....
Main Line. Single	104½	.....	104½
Sidings	12	.....	.....
Total...	.....	.....	104½

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
		Rs.	Rs.	
II.	*Maintenance, Permanent-way—*			One Gang consisting of— No. Rs. A. P. 1 Maistry ... 12 0 0; 7 Men, at 6 Rs. ... 42 0 0; a Total... 54 0 0
	(1.)—Wages—			
	a 35 Gangs, at Rs. 54×6	11,340	...	
	Lorrymen	...	...	
	b Establishment, at ,, 734×6	4,404	...	
	(2.)—Materials—			
	Ballast, C. yds. 8,000, at 6 As ..	3,000	...	
	Rails	300	...	
	Sleepers	28,000	7,000	
	Total, Head II...	47,044	7,000	
	Establishment—			Rs. A. P.
				4 Inspectors' Assistants, at Rs. 30 120 0 0
				4 Do. Writers, at ,, 15 60 0 0
				56 Watchmen, at ,, 6 326 0 0
				7 Store Lascars, at ,, 6 42 0 0
				4 Carpenters, at ,, 20 80 0 0
				3 Smiths, at ,, 20 60 0 0
				3 Hammermen, at ,, 8 24 0 0
				3 Bellows Boys, at ,, 4 12 0 0
				b Total... 734 0 0
III.	*Repairs, Wages, and Materials—*			
	(1.)—Bridges and culverts ...	900	c 4,300	c General repairs, Rupees 900 (Strengthening girder bridge, at 395th Mile, Rupees 300), (Protective works, Rupees 4,000.)
	(1.)—Tunnels	...	...	
	(2.)—Earthwork	800	...	Making Cess Banks and fence bunds.
	(2.)—Fences	4,000	...	Repairing aloe fence and building stone wall.
	(2.)—Roads and level crossings ...	400	...	
	(2.)—Miscellaneous	200	...	
	Total, Head III...	6,300	4,300	
IV.	*Repairs, Wages, and Materials—*			
	(1.)—Station buildings, yards, etc...	1,900	d ...	d General repairs to stations, Rupees 1,500. (Turn-tables and water-columns, Rupees 400.)
	(1.)—Signals, gate lodges, etc. ...	530	...	
	(2.)—Staff quarters	900	...	
	Total, Head IV...	3,330	...	
V.	Maintenance by Contract	...	...	
	Total, Head V...	...	...	
VI.	*Unclassified Expenditure...*			
	(1.)—Plantations	...	...	
	(2.)—Tools and Plant	1,600	...	Includes repairs to Ballast wagons.
	(3.)—Loss on Stores	50	...	
	Total, Head VI...	1,650	...	
	Grand Total...	58,324	11,300	

ESTIMATE FOR MAINTENANCE, HALF-YEAR ENDING 31ST DECEMBER 1873.

First Division, North-West Line, from Arconum to Cuddapah.

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

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
		Rs.	Rs.	
II.	*Maintenance, Permanent-way—*			One Gang consisting of— No. Rs. A. P. 1 Maistry ... ... 11 0 0; 7 Coolies, at Rs. 5 ... 35 0 0; a Total... 46 0 0
	(1.)—Wages—			
	a 42 Gangs, at Rs. 46×6	11,592	...	
	Lorrymen	...	...	
	b Establishment, at ,, 1,837-8×6	11,025	...	
	(2.)—Materials—			
	Ballast, C. yds 9,600, at 5 As...	3,000	...	
	Rails	2,000	...	
	Sleepers	3,500	...	
	Total, Head II...	31,117	...	
	Establishment—			Rs. A. P.
				1 Sub-Inspector 50 0 0
				1 Night Watchman Inspector ... 29 0 0
				4 Inspectors' Assistants, at Rs. 30 120 0 0
				1 Time-keeper 25 0 0
				4 Inspectors' Writers, at ,, 15 60 0 0
				5 Section Maistries, at ,, 15 75 0 0
				7 Store Watchmen, at ,, 7-8 52 8 0
				170 Line Watchmen, at ,, 7 1,190 0 0
				1 Blacksmith 30 0 0
				2 Do., at ,, 20 40 0 0
				3 Hammermen, at ,, 6 18 0 0
				3 Bellows Men, at ,, 5 15 0 0
				3 Carpenters, at ,, 20 60 0 0
				1 Painter... ... ... 10 0 0
				1 Tinker 10 0 0
				1 Top Sawyer 10 0 0
				2 Bottom Sawyers, at ,, 7 14 0 0
				3 Store Coolies, at ,, 5 15 0 0
				2 Lascars, at ,, 7 14 0 0
				b Total... 1,837 8 0
III.	*Repairs, Wages, and Materials.—*			
	(1.)—Bridges and culverts ...	1,400	c 8,600	c General repairs, Rupees 1,400; (Protective works, Rupees 8,600.)
	(1.)—Tunnels	...	...	
	(2.)—Earthwork	3,000	...	
	(2.)—Fences	2,540	...	
	(2.)—Roads and level crossings ...	100	...	
	(2.)—Miscellaneous	200	...	
	Total, Head III...	7,240	8,600	
IV.	*Repairs, Wages, and Materials—*			
	(1.)—Station buildings, yards, etc...	3,000	...	
	(1.)—Signals, gate lodges, etc. ...	548	...	
	(2.)—Staff quarters	1,400	...	
	Total, Head IV...	4,948	...	
V.	Maintenance by Contract	...	...	
	Total, Head V...	...	...	
VI.	*Unclassified Expenditure—*			
	(1.)—Plantations	...	...	
	(2.)—Tools and Plant	750	...	
	(3.)—Loss on Stores	50	...	
	Total, Head VI...	800	...	
	Grand Total...	44,105	8,600	

Proceedings of the Madras Government, Public Works Department, 29th August 1873.

Estimate for Maintenance, half-year ending 31st December 1873.

Second Division, North-West Line, from Cuddapah to Goondacul.

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

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
		Rs.	Rs.	
II.	*Maintenance, Permanent-way—*			One Gang consisting of— No. Rs. A. P. 1 Maistry ... ... 10 0 0; 6 Coolies, at Rs. 5 ... 30 0 0; a Total... 40 0 0
	(1.)—Wages—			
	a 38 Gangs, at Rs. 40 × 6	9,120	...	
	Lorrymen, ...	...	...	
	b Establishment, at Rs. 1,631 × 6	9,786	...	
	(2.)—Materials—			
	Ballast C. yds. 16,416 at Rs 0-3-8	3,762	...	
	Rails	182	...	
	Sleepers	2,490	...	
	Total, Head II...	25,340	...	*Establishment—* Rs. A. P.: 4 Inspectors' Assistants, at Rs. 30 120 0 0; 1 Night Watchman Inspector ... 20 0 0; 1 Timekeeper ... 25 0 0; 1 Section Maistry and Writer ... 60 0 0; 3 Section Maistries, at Rs. 20 45 0 0; 3 Section Writers, at ,, 15 42 0 0; 6 Store Watchers at ,, 7 30 0 0; 1 Carpenter Maistry ... 23 0 0; 1 Carpenter ... ... 22 0 0; 1 Do. ... ... 20 0 0; 1 Do. ... at Rs. 20 40 0 0; 2 Blacksmiths, at ,, 8 16 0 0; 2 Hammermen, at ,, 6 12 0 0; 2 Bellows Men, ... 20 0 0; 1 Painter ... at Rs. 6 18 0 0; 3 Store Coolies, at ,, 7 14 0 0; 2 Engineer's Lascars, at ,, 6 1,062 0 0; 177 Watchmen,
III.	*Repairs, Wages, and Materials—*			b Total... 1,631 0 0
	(1.)— Bridges and culverts ...	1,630	c 6,440	c General repairs, Rupees 1,630; (Protective Works, Rupees 5,440) Stone for accident stock, Rupees 1,000.
	Tunnels	...	...	
	(2.)— Earthwork	587	...	
	Fences	2, 15	...	
	Roads and level crossings ...	30	...	
	Miscellaneous	200	...	
	Total, Head III...	4,462	6,440	
IV.	*Repairs, Wages, and Materials—*			
	(1.)— Station buildings, yards, etc. ...	2,089	...	
	Signals, gate lodges, etc. ...	100	...	
	(2.)— Staff quarters ...	557	...	
	Total, Head IV...	2,746	...	
V.	Maintenance by Contract	...	...	
	Total, Head V...	...	...	
VI.	*Unclassified Expenditure—*			
	(1.)—Plantations	...	...	
	(2.)—Tools and Plant	500	...	
	(3.)—Loss on Stores ...	50	...	
	Total, Head VI...	550	...	
	Grand Total...	33,098	6,440	

Proceedings of the Madras Government, Public Works Department, 29th August 1873.

Estimate for Maintenance, half-year ending 31st December 1873.

Third Division, North-West Line, from Goondacul to Raichore, including Bellary Branch.

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

Head.	Description of Works.	Ordinary	Extra-ordinary	Remarks.
		Rs.	Rs.	
II.	*Maintenance, Permanent-way—*			One Gang consisting of— No. Rs. A. P. 1 Maistry ... ... 13 0 0; 7 Coolies, at Rs. 6 ... 42 0 0; a Total... 55 0 0
	(1.)—Wages—			
	a 55 Gangs, at Rs. 55 × 6	18,150	...	
	Lorrymen	...	...	
	b Establishment, at Rs. 1,354 × 6	8,124	...	
	(2.)—Materials—			
	Ballast, C. yds. 30,000, at 4 As.	7,500	...	
	Rails	450	...	
	Sleepers	1,100	...	
	Total, Head II...	35,324	...	*Establishment—* Rs. A. P.: 1 Sub Inspector ... ... 50 0 0; 4 Inspectors' Assistants, at Rs. 30 120 0 0; 1 Timekeeper ... ... 25 0 0; 1 Night Watchman Inspector ... 29 0 0; 4 Inspectors' Writers, at Rs. 20 80 0 0; 8 Section Maistries, at ,, 18 144 0 0; 9 Store Watchmen, at ,, 7 63 0 0; 3 Carpenters, at ,, 25 75 0 0; 1 Tinker ... ... 20 0 0; 3 Blacksmiths, at Rs. 20 60 0 0; 3 Hammermen, at ,, 7 21 0 0; 3 Bellows Boys, at ,, 5 15 0 0; 2 Lascars, at ,, 7 14 0 0; 6 Coolies, at ,, 6 36 0 0; 86 Watchmen, at ,, 7 602 0 0
III.	*Repairs, Wages, and Materials—*			b Total... 1,354 0 0
	(1.)— Bridges and culverts	1,200	...	
	Tunnels	...	...	
	(2.)— Earthwork	900	...	
	Fences	3,000	...	
	Roads and level crossings ...	300	...	
	Miscellaneous	500	...	
	Total, Head III...	5,900	...	
IV.	*Repairs, Wages, and Materials—*			
	(1.)— Station buildings, yards, etc ...	1,000	...	
	Signals, gate lodges, etc ...	100	...	
	(2.)— Staff quarters	2,908	c ...	c General repairs, Rupees 600. (Alterations to Bungalows at Raichore, Rupees 1,850) Re-tiling Bungalows at Bellary, Rupees 458.
	Total, Head IV...	4,008	...	
V.	Maintenance by Contract	...	...	
	Total, Head V...	...	...	
VI.	*Unclassified Expenditure—*			
	(1.)—Plantations	...	...	
	(2.)—Tools and Plant	1,500	...	Includes repairs to Ballast wagons.
	(3.)—Loss on Stores	50	...	
	Total, Head VI...	1,550	...	
	Grand Total...	46,782	...	

Madras,
18th July 1873.

(Signed) T. H. GOING,
Acting Chief Engineer.

Proceedings of the Madras Government, Public Works Department, 29th August 1873.

No. 501. ORDER THEREON, 29th August 1873, No. 2,105.

RAILWAY, No. 69.

ORDERED that these Lists be forwarded to the Government of India.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Consulting Engineer for Railways.

Exd W. H. Prete
Spare Copies.

Railway Department. CONSULTING ENGINEER'S OFFICE.

No. 419

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,

Adverting to Public Works Resolution N.656 A.P dated 10th May 1872, printed with the Order of Government of Madras N.1365 of the 31st idem; I have the honour to submit, for transmission to the Government of India, lists of Maintenance sanctions in force in the Engineering Department of the Madras Railway during the half-year ending 31st Decem-

-ber

-ber 1873.

I have the honour to be
Sir
your most obedient servt.

Madras
7th August 1873

Lt. Col. R.E.,
Comr. Engineer for Railways

2nd
Draft

MADRAS RAILWAY.

10

Estimate for Maintenance.

Half year ending 31st December 1873.

3rd Division N West Line From Gooty 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.	Extraordinary.	REMARKS.
		Rupees.	Rupees.	
II.	**Maintenance, Permanent Way.**			1 Gang Consisting of Rs as P 1 Maistry 13 " " 7 Coolies at 6/ 42 " " * Total Rs 55 " "
	(1.) WAGES.			Establishment
	† 6 Gangs. at Rs 55 × 6	18150	"	1 Sub Inspector Rs 50 " "
	Lorrymen.	"	"	4 Inspectors Assistants at 30/ 120 " "
	‡ Establishment. at Rs 1354 × 6	8124	"	1 Timekeeper 25 " "
			"	1 Night Watchmen Inspector 29 " "
	(2.) MATERIALS.			4 Inspector's Writers at 20/ 80 " "
				8 Syplies Maistries 18/ 144 " "
	Ballast C Yds 30000 at 4 annas	7500	"	9 Store Watchmen 7/ 63 " "
	Rails	450	"	3 Carpenters 25/ 75 " "
	Sleepers.	1100	"	1 Gilker 20 " "
				3 Blacksmiths at 20/ 60 " "
	Total Head II.	35324	"	3 Hammermen 7/ 21 " "
				3 Bellows Boys 5/ 15 " "
	Repairs, Wages and Materials.			2 Sawyers 7/ 14 " "
III.	(1.) Bridges and Culverts	1200	"	6 Coolies 6/ 36 " "
	(1.) Tunnels	"	"	86 Watchmen 7/ 602 " "
	(2.) Earthwork.	900	"	* Total Rupees. 1354 " "
	(2.) Fences	3000	"	
	(2.) Roads and Level Crossings.	300	"	
	(2.) Miscellaneous	500	"	
	Total Head III.	5900	"	
	Repairs, Wages and Materials.			
IV.	(1.) Station buildings, yards, &c,	1000	"	
	(1.) Signals, Gate Lodges, &c.	100	"	
	(2.) Staff Quarters	2908	"	& General repairs Rs 600/ Alterations to Bungalows at Raichore Rs 1850/ Re-tiling Bungalows at Bellary. Rs 458/
	Total Head IV.	4008	"	
V.	**Maintenance by Contract.**	"	"	
	Total Head V.	"	"	
	Unclassified Expenditure.			
VI.	(1.) Plantations.	"	"	
	(2.) Tools and Plant	1500	"	. Includes repairs to Ballast Wagons.
	(3.) Loss on Stores.	50	"	
	Total Head VI.	1550	"	
	Grand Total...	46782	"	

MADRAS RAILWAY,
Chief Engineer's Office,
18th July 1873.

Ag. Chief Engineer.

P.Nr. 4411/73.

R.G. 29 Aug. 73 Bl. 50

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 31st December 1873.

2nd *Division* V *West Line* *From* Cuttapet *to* Gondacul

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

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
	Maintenance, Permanent Way.	Rupees.	Rupees.	1 Gang Consisting of Rs. as. P.
	(1.) **WAGES.**			1 Maistry ____ 10. .. .
	× 38 Gangs ... at 40 × 6	9120	"	6 Coolies at 5/ ____ 30. .. .
	..... Lorrymen.	"	"	× Total Rs ____ 40. .. .
II.	× Establishment ... at 1631 × 6	9786	"	Establishment
	(2.) **MATERIALS.**			4 Inspectors Assistants ____ at 30/ ____ Rs 120 .. .
	Ballast C. Yds 164 × 16 at × 3-8	3762	"	1 Night Watchmen Inspector ____ " ____ 42 .. .
	Rails	182	"	1 Signalkeeper ____ " ____ 20 .. .
	Sleepers.	2490	"	1 Section Maistry and Writer ____ " ____ 25 .. .
	Total Head II.	26340	..... "	3 Section Maistries ____ at 20/ ____ " ____ 60 .. .
	Repairs, Wages and Materials.			3 Section Writers ____ " ____ 15/ ____ " ____ 45 .. .
	(1.) Bridges and Culverts	1630	× 6440	6 Store Watchers ____ " ____ 7/ ____ " ____ 42 .. .
	(1.) Tunnels	"	"	1 Carpenter Maistry ____ " ____ 30 .. .
III.	(2.) Earthwork.	587	"	1 Carpenter ____ " ____ 23 .. .
	(2.) Fences	2015	"	1 do ____ " ____ 22 .. .
	(2.) Roads and Level Crossings.	30	"	1 do ____ " ____ 20 .. .
	(2.) Miscellaneous	200	"	2 Blacksmiths ____ at 20/ ____ " ____ 40 .. .
	Total Head III.	4462	6440	2 Hammermen ____ " ____ 8/ ____ " ____ 16 .. .
	Repairs, Wages and Materials.			2 Bellows Men ____ " ____ 6/ ____ " ____ 12 .. .
	(1.) Station buildings, yards, &c, ...	2089	"	1 Painter ____ " ____ 20 .. .
IV.	(1.) Signals, Gate Lodges, &c.	100	"	3 Head Coolies ____ at 6/ ____ " ____ 18 .. .
	(2.) Staff Quarters	557	"	2 Engineers Peons ____ " ____ 7/ ____ " ____ 14 .. .
	Total Head IV.	2746	..... "	177 Watchmen ____ " ____ 6/ ____ " ____ 1062 .. .
V.	**Maintenance by Contract.**	"	"	× Total Rupees ____ 1631. .. .
	Total Head V.	"	"	
	Unclassified Expenditure.			
	(1.) Plantations.	"	"	
VI.	(2.) Tools and Plant	500	"	
	(3.) Loss on Stores.	50	"	
	Total Head VI.	550	"	
	Grand Total...	33098	6440	

× { General repairs Rs 1630./ Protection Works Rs 5440./ Stone for Accident Stock Rs 1000./

MADRAS RAILWAY,
Chief Engineer's Office,
18th July 1873.

Ag Chief Engineer.

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 31st December 1873.

4th Division S. West Line From Pulicat to Beyapur

Miles Maintained.		Departmentally.	By Contract.	Total.
Main Line.	Double.	"	"	"
	Single.	104½	"	104½
Sidings.		12		
	Total..			104½

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
		Rupees.	Rupees.	
II.	**Maintenance, Permanent Way.**			1 Gang Consisting of Rs. as. P 1 Mistry ____ 12. .. . 7 Men ____ at 6/ ____ 42. .. . × Total Rs 54. .. .
	(1.) **WAGES.**			
	× 35 Gangs. at Rs 54 × 6	11340	"	
	.....Lorrymen.	"	"	
	* Establishment. at Rs 734 × 6	4404	"	
	(2.) **MATERIALS.**			
	Ballast C. Yds 8000. at 6 annas	3000	"	
	Rails...	300	"	
	Sleepers.	28000	7000	
	Total Head II.	47044	7000	
	Repairs, Wages and Materials.			
III.	(1) Bridges and Culverts...	900	° 4300	° General repairs Rs 900/ Strengthening Girder Bridg at 395 ft Mile Rs 380/ Protective Work. Rs 4000/
	(1) Tunnels...	"	"	
	(2.) Earthwork.	800	"	Making Cess Bank and fence bunds
	(2.) Fences...	4000	"	Repairing Aloe fence and building Stone Wall.
	(2.) Roads and Level Crossings.	400	"	
	(2.) Miscellaneous...	200	"	
	Total Head III.	6300	4300	
	Repairs, Wages and Materials.			
IV.	(1.) Station buildings, yards, &c, ...	1900	& "	& General repairs to Stations. Rs 1500/ Turn Tables and Water Columns. Rs 400/
	(1.) Signals, Gate Lodges, &c.	530	"	
	(2.) Staff Quarters	900	"	
	Total Head IV.	3330	"	
V.	**Maintenance by Contract.**	"	"	
	Total Head V.	"	"	
	Unclassified Expenditure.			
VI.	(1.) Plantations.	"	"	
	(2.) Tools and Plant...	1600	"	Includes repairs to Ballast Wagons
	(3.) Loss on Stores.	50	"	
	Total Head VI.	1650	"	
	Grand Total...	58324	11300	

MADRAS RAILWAY,
Chief Engineer's Office,
18th July 1873.

Ag Chief Engineer.

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 31st December 1873.

3rd Division S. West Line From Mullaperiam to Pothanoor

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. Double.	"	"	"
Main Line. Single.	121 1/2	"	121 1/2
Sidings.	7 3/4		
Total..			121 1/2

Head.	Description of Works.	Ordinary. Rupees.	Extraordinary. Rupees.	REMARKS.
II.	**Maintenance, Permanent Way.**			1 Gang Consisting of: Rs. a. P. 1 Maistry 10. 8. 0. 7 Men at 5-2-0 = 35-14-0. * Total Rs. 46. 6. 0.
	(1.) **WAGES.**			
	* 40 Gangs at Rs. 46-6-0 x 6	11,130	° 1605	4 Extra Gangs for renewing Pots between Avanashy and Pothanoor: 4. Maistries at 10-8-0 = Rs. 42-0-0; 16. Trolly Coolies at 5-2-0 = 82-0-0; 28. Coolies at 5-2-0 = 143-8-0. ° Total Rupees 267-8-0 x 6
	.....Lorrymen.	"	"	
	* Establishment at Rs. 1169-8-0 x 6	7,017	"	Establishment: 1. Night-Watchman Inspector — Rs. 12-0-0; 2. Inspectors Assistants — at 30/ = 60-0-0; 5. Section Maistries — " 26/ = 100-0-0; 4. Inspectors Writers — " 15/ = 60-0-0; 112. Watchmen — " 6-8-0 = 728-0-0; 4. Carpenters — " 22-8-0 = 90-0-0; 3. Smiths — " 20/ = 60-0-0; 3. Hammermen — " 7/ = 21-0-0; 3. Bellows Boys — " 3-8-0 = 10-8-0; 4. Stone Lascars — " 7/ = 28-0-0. * Total Rupees = 1169-8-0
	(2.) **MATERIALS.**			
	Ballast C. Yds 7,500 at 8 Annas	1875	* 1875	
	Rails	5900	"	
	Sleepers	32,244	* 50,938	
	Total Head II.	58,166	54,418.	
III.	**Repairs, Wages and Materials.**			* Renewing Pot Sleepers between Avanashy and Pothanoor.
	(1) Bridges and Culverts	900	* 3,500	* General repairs Rs. 900/ Protective Works Rs. 3500/
	(1) Tunnels	"	"	
	(2.) Earthwork	600	"	
	(2.) Fences	300	"	
	(2.) Roads and Level Crossings	120	"	
	(2.) Miscellaneous	300	"	
	Total Head III.	2220	3500	
IV.	**Repairs, Wages and Materials.**			
	(1.) Station buildings, yards, &c	600	* 1132	* Alterations and Additions to Salem Station.
	(1.) Signals, Gate Lodges, &c.	120	"	
	(2.) Staff Quarters	300	"	
	Total Head IV.	1020	1132	
V.	**Maintenance by Contract.**	"	"	
	Total Head V.	"	"	
VI.	**Unclassified Expenditure.**			
	(1.) Plantations.	"	"	
	(2.) Tools and Plant	1000	"	Includes repairs to Ballast Wagons.
	(3.) Loss on Stores.	50	"	
	Total Head VI.	1050	"	
	Grand Total	62456	59050	

MADRAS RAILWAY,
Chief Engineer's Office,
18th July 1873.

A. Govan
Ag. Chief Engineer.

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 31st December 1873.

2nd Division S. West Line From Jollarpett to Mullapporam including Bangalore Br.

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

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
		Rupees.	Rupees.	
II.	**Maintenance, Permanent Way.**			1 Gang Consisting of Rs. As. P.
	(1.) WAGES.			1 Maistry — 9. 8. .
	* 53 Gangs. at Rs. 32 x 6	10,176	"	5 Coolies at 4/8/ — 22. 8. .
	..... Lorrymen.	"	"	* Total Rs. 32. .. .
	* Establishment. at Rs. 1474 x 6.	8,844	"	**Establishment**
	(2.) MATERIALS.			1 Night Watchmen Inspector — Rs. 50. ...
	Ballast C. Yds. 16000 - at - - 4 - 6	4,500	"	4 Inspectors Assistants — at 30/ — " 120. ...
	Rails	5,000	"	5 do Writers — " 15/ — " 75. ...
	Sleepers.	1,000	"	1 Store Writer — " 20. ...
	Total Head II	29,520	"	175 Line Watchmen — at 6/ — " 1050. ...
				1 Blacksmith — " 15. ...
				1 Hammerman — " 6. ...
				1 Bellows Boy — " 3. ...
				1 Carpenter — " 15. ...
				1 Jobber — " 15. ...
				2 Low cars — at 7/ — " 14. ...
				13 Store Watchers — " 7/ — " 91. ...
				* Total Rupees 1474 ...
III.	**Repairs, Wages and Materials.**			
	(1) Bridges and Culverts	1,718	1,907	° General repairs Rs. 1710/ Protective Works Rs. 1907/
	(1) Tunnels	"	"	
	(2.) Earthwork.	1000	"	
	(2.) Fences	500	"	
	(2.) Roads and Level Crossings.	800	"	
	(2.) Miscellaneous	250	"	
	Total Head III.	4268	1907	
IV.	**Repairs, Wages and Materials.**			
	(1.) Station buildings, yards, &c, ...	4000	"	ϕ General repairs Rs. 1000/ Turn Tables Rs. 60/ Painting Roofs Rs. 940/ Watering and Planting Trees in Station Compounds Rs. 2000/
	(1.) Signals, Gate Lodges, &c.	100	"	
	(2.) Staff Quarters	1000	"	
	Total Head IV.	5100	"	
V.	**Maintenance by Contract.**	"	"	
	Total Head V.	"	"	
VI.	**Unclassified Expenditure.**			
	(1.) Plantations.	"	"	
	(2.) Tools and Plant	1600	"	Includes repairs to Ballast Wagons.
	(3.) Loss on Stores.	50	"	
	Total Head VI.	1650	"	
	Grand Total ...	40538	1907	

MADRAS RAILWAY,
Chief Engineer's Office,
18th July 1873.

F. W. Paul
Chief Engineer.

MADRAS RAILWAY.

Estimate for Maintenance.

Half year ending 31st December 1873.

1st Division S. West Line From Madras *to* Jollarpett

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. Double.	"	"	"
Main Line. Single.	131½	"	131½
Sidings.	14¼		
Total...			131½

Head.	Description of Works.	Ordinary.	Extraordinary.	REMARKS.
	Maintenance, Permanent Way.	Rupees.	Rupees.	1 Gang Consisting of Establishment
	(1.) WAGES.			Rs. as. P.
	* 47 Gangs. at Rs 47 × 6	13254	"	1. Mistry 12 ... ... 4 Section Maistries at 15/ Rs 60. ...
	* 3 do Lorrymen. at 103 × 6	"	° 1854	7 Men at 5/ 35 ... ... 4 Inspectors Writers at 20/ 80. ...
	° Establishment. at 1538 × 6	9228	"	3. Smiths at 20/ 60. ...
II.				* Total Rs 47 ... ... 3. Hammermen at 6/ 18. ...
				3. Bellows Boys at 5/ 15. ...
				1 Gang Consisting of 3. Carpenters at 20/ 60. ...
				Rs. as. P. 2. Engrs Lascars at 7/ 14. ...
				1. Maistry 8 ... ... 4 Hospt Sers do at 5/ 20. ...
				19. Men at 5/95 ... ... 143. Watchers at 7/ 1001. ...
				1. Timekeeper 20. ...
				* Total Rs 103 ... ... 2 Inspts Assistts at 30/ 60. ...
				2 do do at 40/ 80. ...
				1 Sub Inspector 50. ...
				° Total Rupees, 1538. ...
	(2.) **MATERIALS.**			
	Ballast C.Yd 18000, at 4 annas	2000	° 2500	° For renewing Laterite with Sand Ballast on Section I.
	Rails...	7000	"	
	Sleepers.	14000	"	
	Total Head II.	45482	4354	
	Repairs, Wages and Materials.			
III. (1.)	Bridges and Culverts...	2500	a 12800	a General repairs Rs 2500/ Protective Works Rs 10000/ Damaged Bridges Rs 700/ Bridge Establishment Rs 1200/ Renewing timber topped Bridges with W.I. Girders Rs 900/
III. (1.)	Tunnels...	"	"	
III. (2.)	Earthwork.	500	b 14000	b General repairs Rs 500/ Pitching in Tanks Rs 12000/ Drains in Cutting Rs 2000/
III. (2.)	Fences...	1500	c "	c Trimming Horsecopully fence and Strengthening Aloe Fence
III. (2.)	Roads and Level Crossings.	1000	d "	d Making Bandy Road leading to Vellore Goods Shed Rs 750/ General repairs to Bandy roads & Gates Rs 250/
III. (2.)	Miscellaneous...	500	"	
	Total Head III.	6000	26800	
	Repairs, Wages and Materials.			
IV. (1.)	Station buildings, yards, &c, ...	2500	"	General repairs
IV. (1.)	Signals, Gate Lodges, &c.	100	"	
IV. (2.)	Staff Quarters	1000	"	General repairs to Bungalows & Platelayers Huts
	Total Head IV.	3600	"	
V.	**Maintenance by Contract.**	"	"	
	Total Head V.	"	"	
	Unclassified Expenditure.			
VI. (1.)	Plantations.	"	"	
VI. (2.)	Tools and Plant...	1500	"	Includes repairs to Ballast Wagons.
VI. (3.)	Loss on Stores.	50	"	
	Total Head VI.	1550	"	
	Grand Total...	56632	31154	

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MADRAS RAILWAY,
Chief Engineer's Office,
18th July 1873.

C. R. Grieve
Ag Chief Engineer.

MADRAS RAILWAY.

Abstract of Estimates for Maintenance—*Half year ending* 31st December 1873.

HEADS OF CHARGES.	1st Division S. W. Line. Madras to Jollarpett 131¼ Miles (Single)		2nd Division S. W. Line. Jollarpett to Mullapooram including Bangalore B. 133¼ Miles (Single)		3rd Division S. W. Line. Mullapooram to Pothanoor 121½ Miles (Single)		4th Division S. W. Line. Pothanoor to Beypoor 104½ Miles (Single)		1st Division N. W. Line. Arconum to Cuddapah 119½ Miles (Single)		2nd Division N. W. Line. Cuddapah to Goondasaul 111 Miles (Single)		3rd Division N. W. Line. Goondasaul to Rachore including Bellary Branch 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.	45,482	346	29,520	222	58,166	479	47,044	450	31,117	260	25,340	228	35,324	327
Head No. II. Extraordinary.	4354	33	"	"	54,418	448	7,000	67	"	"	"	"	"	"
Head No. III. Ordinary.	6,000	45	4,268	32	2,220	18	6,300	60	7,240	61	4,462	40	5,900	55
Head No. III. Extraordinary.	26,800	204	19,07	14	3,500	29	4,300	41	8,600	72	6,440	58	"	"
Head No. IV. Ordinary.	3,600	27	5,100	38	1,020	8	3,330	32	4,948	41	2,746	25	4,008	37
Head No. IV. Extraordinary.	"	"	"	"	1,132	9	"	"	"	"	"	"	"	"
Head No. V. Ordinary.	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Head No. V. Extraordinary.	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Head No. VI. Ordinary.	1,550	12	1,650	12	1,050	9	1,650	16	800	7	550	5	1,550	14
Head No. VI. Extraordinary.	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Total...	87,786	667	42,445	318	121,506	1,000	69,624	666	52,705	441	39,538	356	46,782	433

Chief Auditor 22.9.73

MADRAS RAILWAY,
Chief Engineer's Office,
18th July 1873.

Offg Exam.r of Rys & Acts.

Ag. Agent & Manager R.W.

Ag. Chief Engineer.

P. W. 1873 Department

RAILWAY DEPARTMENT.

1873.

From No. 4411.

The Consulting Engineer
for Railways,

To

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

Dated 7/8 August 1873.
Recd.

No. 419
Encls. 1 X

Submitting for transmission to the Govt. of India Lists of Maintenance Instructions in force in the Engineering Deptt. of the Ry during the half-year ending 31st December 1873.

With Order.

Copy of the above forwarded to the Govt. of India with reference to their letter No. 2165 P. W. dated 6th ult. and in reply to the Consulting Engineer's letter No. 4411 dated 7/8/73.

No. 2165 P. W. dated 6th August 1873.

From

The Secretary to the Govt. of India,
P. W. Department.

To

The Consulting Engineer for Railways.

Sir,

I am directed to request that three copies of the Lists of Maintenance Instructions in force in the Engineering Department of the Railways during the half-year ending 31st December 1873 may be furnished to this Department.

I have the honor to be,
Sir,
Your most obedient servant,
[illegible]
Secy to Govt.

No. 500-502.
Secy to Govt. 6 Aug 73

No 4411

Govt. of [1873] Madras.

PUBLIC WORKS.

To The Secretary to Govt
for Railways
The Secretary to
Govt of India
Encl. 1

G. O. 29th August 1873. 2165-
2166.

Nos. 500-501 & 502

Madras Railway. Lists

Forwarding lists of maintenance sanctions in force in the Engineering Dept. of the Madras Railway for during the 2d half of 1873

mitted by the Secy Engr.
aintenance sanctions
ce in the Engineering
the Madras Rail-
uring the 2d half of
dered to be for-
to the Govt of India.