M.R.O. 1—77,005—2-6-31.

(1) Number of pages 44

(2) Date of repair

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 415-419 (4) Press Mis.

Dated 6. 2 1877.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 6th February 1877. No. 419.

No. 201. Read the following letter from Lieutenant-Colonel J. H. M. SHAW-STEWART, R.E., Consulting Engineer for Railways, to Lieutenant-Colonel J. MULLINS, R.E., Secretary to Government, Public Works Department, dated Madras, 5th February 1877, No. 87 :—

I HAVE the honor to enclose herewith for transmission to the Government of India, lists showing the sanctions for maintenance of the way, works, and stations, from Revenue Funds in each division of the South-west and North-west lines of the Madras Railway, during the half-year ending 30th June 1877, together with a summary for the whole line.

MADRAS RAILWAY.

Abstract of Estimates for Maintenance of Half-year ending 30th June 1877.

Heads of Charges.		1st Division, S. W. Line.		2nd Division, S. W. Line.		3rd Division, S. W. Line.	
		Madras to Jollarpett.		Jollarpett to Mulla-pooram, including Bangalore Branch.		Mullapooram to Podhanore.	
		130¾ Miles (single), 3¼ Miles (double).		133¼ Miles (single).		12½ Miles (single).	
		Amount.	Per Mile.	Amount.	Per Mile.	Amount.	Per Mile.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Head No. II	Ordinary ..	46,248	337	37,122	278	10,018	802
	Extraordinary ..	56,614	413	6,520	49	26,307	2,105
Head No. III	Ordinary ..	13,500	98	10,850	81	3,600	288
	Extraordinary ..	8,800	64	..	..	460	37
Head No. IV	Ordinary ..	16,150	118	6,300	47	2,750	220
	Extraordinary ..	10,000	72	5,000	37	1,800	144
Head No. V	Ordinary ..	..	..	..	..	..	..
	Extraordinary ..	..	..	..	..	..	..
Head No. VI	Extraordinary ..	1,200	9	1,050	8	1,000	80
Head No. VII	Ordinary ..	4,050	30	1,550	12	1,250	100
	Extraordinary ..	..	..	..	..	..	..
	Total ..	1,56,562	1,141	68,342	512	66,506	5,326

Heads of Charges.		4th Division, S. W. Line.		1st Division, N. W. Line.		2nd Division, N. W. Line.		3rd Division, N. W. Line.	
		Pothanore to Beypore, including Nilgiri Branch.		Arconum to Caddapah.		Caddapah to Goondacul.		Goondacul to Raichore, including Bellary Branch.	
		180¾ Miles (single).		113¼ Miles (single).		111 Miles (single).		168¾ Miles (single).	
		Amount.	Per Mile.	Amount.	Per Mile.	Amount.	Per Mile.	Amount.	Per Mile.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Head No. II	Ordinary ..	85,613	473	37,096	318	31,962	288	25,853	239
	Extraordinary ..	29,000	160	6,454	57	10,000	93	5,200	48
Head No. III	Ordinary ..	6,650	51	6,450	54	13,100	118	6,500	51
	Extraordinary ..	..	..	63,177	579	10,000	90	..	..
Head No. IV	Ordinary ..	4,200	32	6,500	55	1,850	16	6,500	60
	Extraordinary ..	..	..	5,000	42	5,000	45	5,000	46
Head No. V	Ordinary ..	..	..	..	..	..	..	..	..
	Extraordinary ..	..	..	..	..	..	..	..	..
Head No. VI	Extraordinary ..	1,000	8	1,660	14	1,660	9	1,200	11
Head No. VII	Ordinary ..	1,850	14	2,350	21	2,050	19	2,350	22
	Extraordinary ..	..	..	..	..	..	..	..	..
	Total ..	87,713	663	1,36,237	1,140	75,874	663	51,653	477

(Signed) W. R. ROBINSON,
Chief Engineer.

MADRAS,
6th December 1876.

Proceedings of the Madras Government, Public Works Department,
6th February 1877. *No.* 419.

ESTIMATE FOR MAINTENANCE OF HALF-YEAR ENDING 30TH JUNE 1877.
1st Division, South-west Line, from Madras to Jollarpett.

Miles maintained.		Departmentally.	By Contract.	Total.
Main Line..	Double	3¼	....	3¼
	Single	130¾	....	130¾
Sidings..	.. .. ..	23¾	....	....
	Total ..	...	....	133¼

Head.	Description of Works.	Ordinary	Extraordinary.	Remarks.
	Maintenance, Permanent-way.	Rs.	Rs.	One gang consisting of— No. Rs. 1 Maistry .. .. 12; 7 Men, at Rs. 5 .. .. .. 35; * Total .. 47
II.	(1.)—Wages—			
	* 81 Gangs, at Rs. 47 × 6 ..	15,228	‡12,614	
	Lorrymen	..	..	
	† Establishment at Rs. 1,670 × 6 ..	10,020	..	
	(2.)—Materials—			
	Ballast 18,000 C. yds. at 4 Annas ..	5,000	‡ 7,000	
	Rails	7,000	‡22,000	
	Sleepers	9,000	‡15,000	
	Total, Head II ..	46,248	56,614	

Establishment.

1 Sub-Inspector			50
1 Inspector's Assistant			40
2 Do. do.,	at Rs.	30 ..	60
4 Do. Writers,	at ,,	20 ..	80
4 Section Maistries,	at ,,	18 ..	72
5 Smiths,	at ,,	20 ..	100
5 Carpenters,	at ,,	20 ..	100
1 Time-keeper			20
5 Hammermen,	at Rs.	6 ..	30
5 Bellows Boys,	at ,,	5 ..	25
2 Engineers' Lascars,	at ,,	7 ..	14
4 Inspectors' do.,	at ,,	5 ..	20
6 Workshop Coolies,	at ,,	5 ..	30
147 Watchers,	at ,,	7 ..	1,029
† Total..			1,670

‡ Doubling line between Porambore and Ambatoor, Rupees 49,000. Extra gangs to meet the grain traffic, Rupees 7,614.

III.	*Repairs, Wages and Materials.*			
	(1.)— Bridges and culverts	5,100	§ 8,000	§ Reconstructing bridges at 17/32, 23/32, 24/32, 14/32, and 7/32 miles, Rupees 4,000; rekeying arches and rebuilding wing walls of bridges at 55/32, 58/32, 5/32, 77/32, 78/32, 14/32, and 3/32 miles, Rs. 3,000; doubling line, Rupees 1,000.
	Tunnels	..	..	
	(2.)— Earthwork	1,400	..	Making up bank and cess, Rupees 1,200; blasting rocks in cuttings, Rupees 200.
	Fences	4,000	..	Strengthening aloe fence, Rupees 1,000; cutting high grown fence and weeding aloes, Rupees 1,000; removing and burying prickly pear, Rupees 2,000.
	Roads and level crossings ..	1,000	..	
	Miscellaneous..	2,000	¶ 800	¶ Works at Ambatoor, Rupees 800.
	Total, Head II ..	13,500	8,800	
IV.	*Repairs, Wages and Materials.*			
	(1.)— Station buildings, yards, &c. ..	**15,000	††6,600	** General repairs, Rupees 3,000; terminal works, Rupees 12,000.
	Signals, gate lodges, &c. ..	150	..	
	(2.)— Staff quarters	1,000	‡‡3,400	†† Works at Ambatoor, Rupees 1,600; deepening wells at stations, Rupees 5,000.
	Total, Head IV ..	16,150	10,000	‡‡ Station-masters' house at Ambatoor, Rupees 3,400.
V.	Maintenance by contract	..	..	
	Total, Head V ..	..	..	
VI.	New Minor Works	..	1,200	
	Total, Head VI ..	..	1,200	
VII.	*Unclassified Expenditure.*			
	(1.)—Plantations	..	..	
	(2.)—Tools and Plant	4,000	..	Includes repairs to ballast wagons.
	(3.)—Loss on Stores	50	..	
	Total, Head VII ..	4,050	..	
	Grand Total ..	79,948	76,614	

ESTIMATE FOR MAINTENANCE OF HALF-YEAR ENDING 30TH JUNE 1877.

2nd Division, South-west Line, from Jolarpett to Mullapooram, including Bangalore Branch.

	Miles maintained.	Departmentally.	By Contract.	Total.
Main Line..	Double	....	....	....
	Single	132½	....	132½
Sidings		12½	....	....
	Total ..	....	....	132½

Head.	Description of Works.	Ordinary.	Extra-ordinary.	Remarks.
	Maintenance, Permanent-way.	Rs.	Rs.	
II.	(1.)—Wages—			One gang consisting of— No. Rs. A. P.
	* 81 Gangs, at Rs. 40 4 0 × 6 ..	13,041	6,520	1 Maistry 11 0 0
	5 Lorrymen, at „ 7 10 0 × 6 ..	228	..	6 Coolies, at Rs. 5 .. .. 30 0 0
	‡ Establishment, at „ 1,637 0 0 × 6 ..	9,822	..	* Total .. 40 4 0
	(2.)—Materials—			*Establishment.* Rs.
	Ballast 25,000 C. yds., at Annas 4-6 ..	7,031	..	1 Inspector of Night Watchmen .. 50
	Rails	5,000	..	2 Inspectors' Assistant, at Rs. 40 .. 80
	Sleepers	2,000	..	2 Do. do. at „ 40 .. 80
	Total, Head II ..	37,122	† 6,520	5 Do. Writers, at „ 30 .. 150
				1 Store Writer 18
				2 Blacksmiths, at Rs. 20 .. 40
				2 Hammermen, at „ 6 .. 12
				2 Bellows boys, at „ 3 .. 6
				1 Carpenter 15
				2 Tinkers, at Rs. 15 .. 30
				2 Lascars, at „ 7 .. 14
				11 Store Watchers, at „ 7 .. 77
				193 Line Watchmen, at „ 6 .. 1,158
				‡ Total .. 1,637
				† Extra gangs to meet the grain traffic, Rupees 6,520.
	Repairs, Wages and Materials.			
III.	(1.)— Bridges and culverts	2,000	..	
	(1.)— Tunnels	..	..	
	(2.)— Earthwork	5,000	..	
	(2.)— Fences	3,000	..	
	(2.)— Roads and level crossings ..	600	..	
	(2.)— Miscellaneous	250	..	
	Total, Head III ..	10,850	..	
	Repairs, Wages and Materials.			
IV.	(1.)— Station buildings, yards, &c. ..	‖ 3,600	§ 5,000	‖ General repairs, Rupees 1,200; turn-tables, Rupees 300; paving loading platform at Bangalore, Rupees 1,300; gardening at stations, Rupees 800.
	(2.)— Staff quarters	200	..	§ Deepening wells at stations, Rupees 5,000.
	Total, Head IV ..	2,500	..	
		6,300	5,000	
V.	Maintenance by contract	..	..	
	Total, Head V ..	..	..	
VI.	New Minor Works	..	1,000	
	Total, Head VI ..	..	1,000	
	Unclassified Expenditure.			
VII.	(1.)—Plantations	..	..	
	(2.)—Tools and Plant	1,500	..	Includes repairs to ballast wagons.
	(2.)—Loss on stores	50	..	
	Total, Head VII ..	1,550	..	
	Grand Total ..	55,822	12,520	

Proceedings of the Madras Government, Public Works Department, 6th February 1877. No. 419.

ESTIMATE FOR MAINTENANCE OF HALF-YEAR ENDING 30TH JUNE 1877.

3rd Division, South-west Line, from Mullapooram to Pothanore.

	Miles maintained.	Departmentally.	By Contract.	Total.
Main Line..	Double	..	..	..
	Single	121½	..	121½
Sidings..		6	..	..
	Total ..	..	..	121½

Head.	Description of Works.	Ordinary.	Extra-ordinary.	Remarks.
	Maintenance, Permanent-way.	Rs.	Rs.	
II.	(1.)—Wages—			One gang consisting of— No. Rs. A. P.
	* 54 Gangs, at Rs. 51-8-0 × 6 ..	11,124	†5,562	1 Maistry 11 0 0
	Lorrymen	..	§2,000	8 Coolies, at Rs. 5-1-0 .. .. 40 8 0
	‡ Establishment, at Rs. 1,311-11-0 × 6 ..	7,870	..	*Total .. 51 8 0
	(2.)—Materials—			*Establishment.* Rs.
	Ballast 7,200 C. yds., at 8 Annas ..	3,600	§ 18,000	1 Inspector of Night Watchmen 12 0 0
	Rails	3,440		1 Inspector's Assistant, at .. 40 0 0
	Sleepers	3,984		3 Do. do. at 30-0-0 .. 90 0 0
	Total, Head II ..	30,018	25,562	4 Do. Writers, at 15-0-0 .. 60 0 0
				4 Section Maistries, at 18-0-0 .. 72 0 0
				1 Carpenter Maistry .. 30 0 0
				2 Carpenters, at 15-0-0 .. 30 0 0
				3 Blacksmiths, at 15-0-0 .. 45 0 0
				3 Hammermen, at 7-0-0 .. 21 0 0
				3 Bellows boys, at 3-8-0 .. 10 8 0
				1 Painter 19 0 0
				2 Engineers' Lascars, at 7-0-0 .. 14 0 0
				7 Store Lascars, at 7-0-0 .. 49 0 0
				3 Coolies, at 5-1-0 .. 15 3 0
				134 Watchmen, at 6-0-0 .. 804 0 0
				‡Total .. 1,311 11 0
	Repairs, Wages and Materials.			† Extra gangs to meet the grain traffic, Rupees 5,562.
III.	(1.)— Bridges and culverts	1,500	¶456	§ New permanent-way over girder bridges, Rupees 20,000.
	(1.)— Tunnels	..	..	¶ Raising parapet walls of several bridges, Rupees 456.
	(2.)— Earthwork	360	..	
	(2.)— Fences	1,560	..	
	(2.)— Roads and level crossings ..	120	..	
	(2.)— Miscellaneous	120	..	
	Total, Head III ..	3,660	456	
	Repairs, Wages and Materials.			
IV.	(1.)— Station buildings, yards, &c. ..	‖1,740	**1,500	‖ General repairs, Rupees 1,740.
	(1.)— Signals, gate lodges, &c. ..	120	..	** Deepening wells at stations, Rupees 1,500.
	(2.)— Staff quarters	††900	‡‡300	†† General repairs, Rupees 900.
	Total, Head IV ..	2,760	1,800	‡‡ Deepening wells, Rupees 300.
V.	Maintenance by contract	..	..	
	Total, Head V ..	..	..	
VI.	New Minor Works	..	1,000	
	Total, Head VI ..	..	1,000	
	Unclassified Expenditure.			
VII.	(1.)—Plantations	..	..	
	(2.)—Tools and Plant	1,200	..	Includes repairs to ballast wagons.
	(3.)—Loss on stores	50	..	
	Total, Head VII ..	1,250	..	
	Grand Total ..	37,688	28,818	

Proceedings of the Madras Government, Public Works Department, 6th February 1877. *No.* 419.

ESTIMATE FOR MAINTENANCE OF HALF-YEAR ENDING 30TH JUNE 1877.

4th Division, South-east Line, from Pothanore to Beypore, including Nilgiri Branch.

	Miles maintained.	Departmentally.	By Contract.	Total.
Main Line..	Double	..	..	..
	Single	130½	..	130½
Sidings..	.. .. ..	14	..	..
	Total ..	..	..	130½

Head.	Description of Works.	Ordinary.	Extraordinary.	Remarks.
	Maintenance, Permanent-way.	Rs.	Rs.	
II.	(1.)—Wages—			One gang consisting of—
	* 43 Gangs, at Rs. 60 × 6	15,480	..	No. Rs.
	Lorrymen	..	†2,000	1 Maistry 12
	‡ Establishment, at Rs. 998 × 6 ..	5,988	..	8 Men, at 6 Rs. 48
	(2.)—Materials—			* Total .. 60
	Ballast 15,000 C. yds., at 4 Annas ..	3,750	† 18,000	
	Rails	300		*Establishment.*
	Sleepers	28,000		1 Sub-Inspector 50
	Total, Head II ..	53,518	20,000	3 Inspectors' Assistants at Rs. 30 .. 90
				2 Section Maistries at ,, 15 .. 30
				5 Inspectors' Writers at ,, 15 .. 75
				1 Carpenter 25
				4 Do., at Rs. 20 80
				4 Smiths, at ,, 25 80
				4 Hammermen, at ,, 8 32
				4 Fitters, at ,, 10 40
				4 Bellows boys, at ,, 4 16
				80 Watchmen, at ,, 6 480
				†Total .. 998
	Repairs, Wages and Materials.			†New permanent-way over girder bridges, Rupees 20,000.
III.	(1.)— Bridges and culverts	1,500	..	
	Tunnels	..	..	
	Earthwork	2,000	..	Repairing bunds, making up embankments and building drains.
	(2.)— Fences	2,500	..	Repairing aloe fence and building stone wall.
	Roads and level crossings ..	150	..	
	Miscellaneous	500	..	
	Total, Head III ..	6,650	..	
	Repairs, Wages and Materials.			
IV.	(1.)— Station buildings, yards, &c. ..	2,000	..	General repairs to station buildings.
	Signals, gate lodges, &c. ..	200	..	
	(2.)— Staff quarters	2,000	..	General repairs to bungalows.
	Total, Head IV ..	4,200	..	
V.	Maintenance by contract	..	..	
	Total, Head V ..	..	..	
VI.	New Minor Works	..	1,000	
	Total, Head VI ..	..	1,000	
	Unclassified Expenditure.			
VII.	(1.)—Plantations	..	..	
	(2.)—Tools and Plant	1,800	..	Includes repairs to ballast wagons.
	(3.)—Loss on Stores	50	..	
	Total, Head VI ..	1,850	..	
	Grand Total ..	66,218	21,000	

Proceedings of the Madras Government, Public Works Department, 6th February 1877. *No.* 419.

ESTIMATE FOR MAINTENANCE OF HALF-YEAR ENDING 30TH JUNE 1877.

1st Division, North-west Line, from Arconum to Cuddapah.

	Miles maintained.	Departmentally.	By Contract.	Total.
Main Line..	Double	..	..	..
	Single	119½	..	119½
Sidings..	.. .. ..	13½	..	..
	Total ..	..	..	119½

Head.	Description of Works.	Ordinary.	Extraordinary.	Remarks.
	Maintenance, Permanent-way.	Rs.	Rs.	
II.	(1.)—Wages—			One gang consisting of—
	* 66 Gangs, at Rs. 52 × 6 ..	13,728	†6,864	No. Rs.
	Lorrymen	..	..	1 Maistry 12
	‡ Establishment at Rs. 1,878 × 6 ..	11,268	..	8 Coolies, at Rs. 5 40
	(2.)—Materials—			* Total .. 52
	Ballast 32,000 C. yds., at 4 Annas ..	8,000	..	
	Rails	2,000	..	*Establishment.*
	Sleepers	3,000	..	1 Sub-Inspector 50
	Total, Head II ..	37,996	†6,864	3 Inspectors' Assistants, at Rs. 30 .. 90
				1 Do. Writer 20
				3 Do. do., at Rs. 15 .. 45
				2 Section Maistries, at ,, 18 .. 36
				3 Do. do., at ,, 15 .. 45
				1 Timekeeper 25
				1 Blacksmith 30
				3 Do., at Rs. 17 51
				4 Hammermen, at ,, 6 24
				4 Bellows men, at ,, 5 20
				1 Carpenter 20
				3 Do., at Rs. 17 51
				1 Tinker 15
				2 Painters, at Rs. 15 30
				1 Sawyer 10
				1 Do. 7
				2 Lascars, at Rs. 7 14
				1 Store Watchman 8
				6 Do. do., at Rs. 7 .. 42
				4 Store Coolies.. at ,, 5 .. 20
				80 Day Watchmen, at ,, 7 .. 560
				90 Night do., at ,, 7 .. 630
				5 Bridge do., at ,, 7 .. 35
				‡ Total .. 1,878
	Repairs, Wages and Materials.			†Extra gangs to meet the grain traffic .. 6,864
III.	(1.)— Bridges and culverts	3,000	§69,177	§ Bridge at 130/8 miles 2,482
	Tunnels	..	..	Do. at 116/5 ,, ... 3,058
	Earthwork	2,000	..	Do. at 131/3 ,, ... 3,637
	(2.)— Fences	1,000	..	New Cheyair bridge 60,000
	Roads and level crossings ..	250	..	¶ General repairs to station buildings 4,000
	Miscellaneous	200	..	General repairs to bungalows.
	Total, Head III ..	6,450	69,177	‖ Deepening wells at stations .. 5,000
	Repairs, Wages and Materials.			
IV.	(1.)— Station buildings, yards, &c. ..	¶4,000	‖5,000	
	Signals, gate lodges, &c. ..	100	..	
	(2.)— Staff quarters	2,500	..	
	Total, Head IV ..	6,600	5,000	
V.	Maintenance by contract	..	..	
	Total, Head V ..	..	..	
VI.	New Minor Works	..	1,600	
	Total, Head VI ..	..	1,600	
	Unclassified Expenditure.			
VII.	(1.)—Plantations	..	..	
	(2.)—Tools and Plant	2,600	..	Includes repairs to ballast wagons.
	(3.)—Loss on stores	50	..	
	Total, Head VII ..	2,650	..	
	Grand Total ..	53,696	82,641	

ESTIMATE FOR MAINTENANCE OF HALF-YEAR ENDING 30TH JUNE 1877.

2nd Division, North-west Line, from Cuddapah to Goondacul.

Miles maintained.		Departmentally.	By Contract.	Total.
Main Line..	Double	..	..	..
	Single	111	..	111
Sidings		7¼	..	..
Total ..		..	..	111

Head.	Description of Works.	Ordinary.	Extra-ordinary.	Remarks.
	Maintenance, Permanent-way.			
II.	(1.)—Wages—			
	* 63 Gangs, at Rs. 47 × 6 ..	11,844	†5,922	One gang consisting of— No. Rs. A. P.
	Lorrymen	..	..	1 Maistry 12 0 0
	‡ Establishment at Rs. 1,882 × 6 ..	11,292	†500	7 Coolies, at Rs. 5 35
	(2.)—Materials—			*Total .. 47
	Ballast 21,888 C. yds., at As. 3-3	5,016	†4,500	*Establishment.*
	Rails	300		1 Sub-Inspector 50
	Sleepers	3,500		6 Inspectors' Assistants, at Rs. 30 .. 180
	Total, Head II ..	31,952	10,922	1 Inspector of Night Watchmen .. 50
				4 Inspectors' Writers, at Rs. 15 .. 60
				4 Section Maistries, at „ 20 .. 80
				1 Timekeeper 25
				1 Carpenter Maistry 30
				1 Carpenter 23
				1 Do. .. .. ..
				4 Do., at Rs. 20 ..
				4 Blacksmiths, at „ 20 .. 8[illegible]
				4 Hammermen, at „ 20 .. 80
				4 Bellows men, at „ 8 .. 32
				1 Tinker 24
				1 Bellows man 20
				1 Painter 4
				2 Engineers' Lascars, at Rs. 7 .. 20
				8 Store Watchers, at „ 7 .. 14
				2 Do. Coolies, at „ 6 .. 56
				170 Watchmen, at „ 6 .. 1,020
				§Total .. 1,882
	Repairs, Wages and Materials.			
III.	(1.)—Bridges and culverts	5,000	‖10,000	
	(1.)—Tunnels	..	..	
	(2.)—Earthwork	3,000	..	
	(2.)—Fences	4,000	..	
	(2.)—Roads and level crossings ..	450	..	
	(2.)—Miscellaneous	650	..	
	Total, Head III ..	13,100	10,000	
	Repairs, Wages and Materials.			
IV.	(1.)—Station buildings, yards, &c. ..	1,000	¶5,000	
	(2.)—Signals, gate lodges, &c. ..	100	..	
	Staff quarters	750	..	
	Total, Head IV ..	1,850	5,000	
V.	Maintenance by contract	..	..	
	Total, Head V ..	..	..	
VI.	New Minor Works	..	1,000	
	Total, Head VI ..	..	1,000	
	Unclassified Expenditure.			
VII.	(1.)—Plantations	..	..	
	(2.)—Tools and Plant	2,000	..	Includes repairs to ballast wagons.
	(3.)—Loss on stores	50	..	
	Total, Head VII ..	2,050	..	
	Grand Total ..	‡8,952	26,922	

†Extra gangs to meet the grain traffic, Rupees 5,922.

‡New permanent-way over girder bridges, Rupees 5,000.

‖ Bridge at 197-9 miles, Rupees 4,000; borings at Chittravutty, Rupees 6,000.

¶ Deepening wells at stations Rs. 5,000.

Proceedings of the Madras Government, Public Works Department,
6th February 1877. *No.* 419.

ESTIMATE FOR MAINTENANCE OF HALF-YEAR ENDING 30TH JUNE 1877.

3rd Division, North-west Line, from Goondacul to Raichore, including Bellary Branch.

Miles maintained.		Departmentally.	By Contract.	Total.
Main Line..	Double	108¾	..	108¼
	Single	11¼	..	..
Sidings		..	..	..
Total ..		..	..	108¼

Head.	Description of Works.	Ordinary.	Extra-ordinary.	Remarks.
	Maintenance, Permanent-way.			
II.	(1.)—Wages—			
	* 45 Gangs, at Rs. 58×6 ..	10,440	†5,220	One gang consisting of— No. Rs. A. P.
	Lorrymen	..	..	1 Maistry 12 0 0
	‡ Establishment, at Rs. 1,490-8-0×6 ..	8,943	..	2 Head Coolies, at Rs. 6-8-0 .. 13 0 0
	(2.)—Materials—			6 Coolies, at „ 5-8-0 .. 33 0 0
	Ballast 20,000 C. yds., at 4 Annas ..	5,000	..	*Total .. 58 0 0
	Rails	500	..	
	Sleepers	1,000	..	*Establishment.*
	Total, Head II ..	25,883	5,220	1 Inspector's Assistant .. 40 0 0
				4 Do. do., at Rs. 30-0-0 120 0 0
				1 Writer 20 0 0
				3 Do., at Rs. 15-0-0 .. 45 0 0
				1 Timekeeper 20 0 0
				1 Carpenter 27 0 0
				2 Do., at Rs. 20-0-0 .. 40 0 0
				1 Blacksmith 27 0 0
				2 Do., at Rs. 20-0-0 .. 40 0 0
				3 Hammermen, at „ 8-0-0 .. 24 0 0
				3 Bellows boys, at „ 5-0-0 .. 15 0 0
				1 Tinker 16 0 0
				1 Painter 20 0 0
				2 Lascars, at Rs. 7-0-0 14 0 0
				10 Store Watchers, at „ 7-0-0 70 0 0
				3 Maistries, at „ 18-0-0 54 0 0
				9 Coolies, at „ 6-8-0 58 8 0
				120 Watchmen at „ 7-0-0 840 0 0
				‡Total .. 1,490 8 0
	Repairs, Wages and Materials.			
III.	(1.)—Bridges and culverts	1,000	..	
	(1.)—Tunnels	..	..	
	(2.)—Earthwork	2,000	..	
	(2.)—Fences	1,500	..	
	(2.)—Roads and level crossings ..	500	..	
	(2.)—Miscellaneous	500	..	
	Total, Head III ..	5,500	..	
	Repairs, Wages and Materials.			
IV.	(1.)—Station buildings, yards, &c. ..	§4,800	¶5,000	
	(1.)—Signals, gate lodges, &c. ..	200	..	
	(2.)—Staff quarters	1,500	..	
	Total, Head IV ..	6,500	5,000	
V.	Maintenance by contract	..	..	
	Total, Head V ..	..	..	
VI.	New Minor Works	..	1,200	
	Total, Head VI ..	..	1,200	
	Unclassified Expenditure.			
VII.	(1.)—Plantations	..	..	
	(2.)—Tools and Plant	2,300	..	Includes repairs to ballast wagons.
	(3.)—Loss on stores	50	..	
	Total, Head VI ..	2,350	..	
	Grand Total ..	40,233	11,420	

†Extra gangs to meet the grain traffic, Rupees 5,220.

§ General repairs to station buildings, Rupees 4,800.

¶ Deepening wells at stations, Rs. 5,000. General repairs to bungalows.

MADRAS,
6th December 1876.

(Signed) W. R. ROBINSON,
Chief Engineer.

Proceedings of the Madras Government, Public Works Department,
6th February 1877. *No.* 419.

Nos. 202 & 203. ORDER THEREON, 6th February 1877, No. 418.

RAILWAY, No. 13-B.

ORDERED to be forwarded to the Government of India.

(True Extract.)

(Signed) J. H. M. SHAW-STEWART, Lieut.-Colonel, [redacted]
Joint Secretary to Gove[redacted]

No. 204. (DOCKET No. 419, dated 6th February 1877.)

COPY of the above forwarded to the Government of India.

(True Extract.)

Lieut.-Colonel, R.E.
Joint Secretary to Government.

RAILWAY DEPARTMENT.

CONSULTING ENGINEER'S OFFICE,

Madras, 5th Feby 1877.

No. 87

From

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

To

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

SIR,

I have the honor to enclose herewith, for transmission to the Government of India, lists showing the sanctions for maintenance of the Way, Works, and Stations, from Revenue Funds in each division of the South-west and North-west lines of the Madras Railway, during the half-year ending 30th June 1877, together with a summary for the whole line.

I

I have the honour to be,

Sir,

Your most Obedt Servant,

[illegible] Lt Col R.E.

Supt Eng Fort Railways

RECEIVED
OFFICE
No. 1237

No 410 of 6 Feb/77

Ordered to be forwarded to the Govt of India.

Docket No 419 of 6 Feb/77

Copy of the above forwarded to the Govt of India

RAILWAY DEPARTMENT.

From

The Consulting Engineer
for Railways,

To

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

Dated 5 Feb 1877

Received

No,

Enclosure

Enclosure in Consulting Engineer for Railways Letter No dated

Submitted for the orders of Government

Fort St George 30th January 1877

No 1235

Govt. of 1877 Madras.

PUBLIC WORKS.

To

The Chief Engr for Wks

Dated

Issued

Read.

Encl.

G. O. No. 1877. No.

Nos. 201-204

7-2-77

Forwarding list of Maintenance Sanctions of

Sanction of the Madras Railway for the

year ending 30 June —— submitted by the

Engineer for the

ending 30 June

ordered to be forwarded

Government of India