

(1) Number of pages _____

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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. 387-88 (Ry) Press
B.P. No. - Mis-

Dated 12-2-1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
12th February 1876.*

Nos. 215 & 216. Read the following letter from Lieutenant-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, dated Madras, 8th February 1876, No. 78 :—

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 1876, together with a summary for the whole line.

2. The sum set down as "Extraordinary" expenditure, amounting in gross to Rupees 66,617, includes the estimated outlay during the half-year of Rupees 30,000 on the restoration of the Pennar bridge damaged by the floods of October 1874, of Rupees 21,400 for converting six arched bridges between Madras and Arady into girder bridges, and of Rupees 3,000 for protective works to bridges, besides other minor works.

MADRAS RAILWAY.

Abstract of Estimates for Maintenance—Half-year ending 30th June 1876.

Proceedings of the Madras Government, Public Works Department,
12th February 1876.

Heads of Charges.	MADRAS RAILWAY.	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.	Per Mile.
	Whole length.	130½ Miles (single.)	130½ Miles (double.)	121½ Miles (single.)	130½ Miles (single.)	119½ Miles (single.)	111 Miles (single.)	108½ Miles (single.)	
	854½ Miles (single.)	84 Miles (double.)							
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Head No. I.	Ordinary	3,10,500	862	57,904	433	85,023	262	34,235	281
	Extraordinary	...	...	...	...	...	...	...	...
Head No. II.	Ordinary	74,910	87	21,400	160	6,850	61	8,860	32
	Extraordinary	60,513	71	24,400	183	...	...	...	...
Head No. IV.	Ordinary	45,180	53	19,150	143	5,000	38	3,420	28
	Extraordinary	6,104	7	2,049	15	...	...	3,850	32
Head No. V.	Ordinary	...	...	...	...	...	...	...	...
	Extraordinary	...	...	...	...	...	...	...	...
Head No. VI.	Ordinary	14,900	17	4,050	30	2,050	15	650	5
	Extraordinary	...	...	...	...	...	...	...	...
Total		5,12,107	507	1,29,953	963	45,923	366	46,015	373

MADRAS, (Signed) R. G. MACDONALD, (Signed) F. CHURCH, (Signed) R. B. ELWIN, (Signed) W. R. ROBINSON,
28th January 1876. Examiner of Railway Accounts. Chief Auditor. Agent and Manager. Acting Chief Engineer.

ings of the Madras Government, Public Works Department,
12th February 1876.

IMATE FOR MAINTENANCE—Half-year ending 30th June 1876.
1st Division, South west Line, from Madras to Jollarpett.

Miles maintained.	Departmentally.	By Contract.	Total.
Main Line ... { Double ...	8½	...	8½
Single ...	130½	...	130½
Sidings ...	23½	...	...
Total ...	...	...	138½

Head.	Description of Works.	Ordinary.	Extraordinary.	Remarks.
II.	Maintenance, Permanent-way.	Rs.	Rs.	One Gang consisting of—
(1) — Wages—				
• 54 Gangs, at Rs. 47 × 6 ...	15,228	...	...	1 Maistry ... 12
† 4 Extra Gangs, at „ 60 × 6 ...	1,440	...	...	10 Men at Rs. 5 ... 35
‡ Establishment, at „ 1,706 × 6 ...	10,236	...	...	1 Maistry ... 10
(2) — Materials—				10 Men at Rs. 5 ... 50
Ballast 20,000 at 4 As. per C. yard ...	5,000	...	...	* Total ... 47
Rails ...	12,000	...	...	† Total ... 60
Sleepers ...	14,000	...	...	
Total, Head II. ...	57,904	...	...	Establishment.
				2 Sub-Inspectors, at Rs. 50 ... 100
				3 Inspector's Assistants at „ 30 ... 90
				4 Do. Writers at „ 20 ... 80
				4 Section Maistries at „ 17 ... 68
				1 Time-keeper ... 20
				5 Smiths ... at „ 20 ... 100
				5 Carpenters ... at „ 20 ... 100
				5 Hammermen ... at „ 6 ... 30
				5 Bellows-boys ... at „ 5 ... 25
				2 Engineer's Lascars at „ 7 ... 14
				4 Inspectors do. at „ 5 ... 20
				147 Watchers at „ 7 ... 1,029
				6 Workshop Coolies at „ 5 ... 30
				† Total ... 1,706
III.	Repairs, Wages, and Materials.			
(1) — { Bridges and Culverts ...	5,650	\$ 24,400		\$ Protective Works, Rupees 3,000. Rebuilding
{ Tunnels ...	...	...		Bridges at Rs. 20, 15, 20, 10, and 1
{ Earthwork ...	7,000	...		Rupees 21,400.
{ Fences ...	5,750	...		
(2) — { Roads and Level Crossings ...	1,000	...		
{ Miscellaneous ...	2,000	...		
Total, Head III. ...	21,400	24,400		
IV.	Repairs, Wages, and Materials.			
(1) — { Station Buildings, yards, &c. ...	18,000	1,150		Including Terminal Works.
{ Signals, gate lodges, &c. ...	150	...		Alterations at Trivellore Station, Rs. 900
(2) — Staff Quarters ...	1,000	** 899		Do. at Vellore „ 250
Total, Head IV. ...	19,150	2,049		** Assistant Station Master's House, Gooriatum... „ 899
V.	Maintenance by contract ...	...	...	
Total, Head V. ...	...	...		
VI.	Unclassified Expenditure.			
(1) — Plantations ...	...	...		
(2) — Tools and Plant ...	4,000	...		Includes repairs to Ballast Wagons.
(3) — Loss on Stores ...	50	...		
Total, Head VI. ...	4,050	...		
Grand Total ...	1,02,504	26,419		

Proceedings of the Madras Government, Public Works Department,
12th February 1876.

ESTIMATE FOR MAINTENANCE—HALF YEAR ENDING 30TH JUNE 1876.
2nd Division, South-west Line, from Jollarepett to Mullapuram including Bangalore Branch.

Head.	Description of Works.	Ordinary.	Extraordinary.	Remarks.
II.	Maintenance, Permanent-way.	RS.	RS.	One Gang consisting of—
	(1.)—Wages—			RS. A. P.
	• 54 Gangs, at Rupees 38 × 6	12,312	...	1 Maistry ... 10 4 0
	5 Lorrymen at Rs. 7-10 × 6	228	...	6 Coolies at 4-10 ... 27 13 0
	† Establishment at „ 1,643 × 6	9,858	...	• Total ... 89 0 0
	(2.)—Materials—			Establishment.
	Ballast, 20,000 C. yards, at As. 4-6	5,625	...	1 Inspector of Night Watchmen 50 0 0
	Rails ...	5,000	...	5 Do. Assistants, at Rs. 30 150 0 0
	Sleepers ...	2,000	...	1 Store Writer ... 20 0 0
	Total, Head II. ...	35,023	...	5 Inspector's Writers, at „ 15 75 0 0
III.	Repairs, Wages, and Materials.			General repairs to bridges.
	(1.)—Bridges and Culverts ...	2,000	...	
	Tunnels ...	...	...	
	Earthwork ...	2,000	...	
	(2.)—Fences ...	2,000	...	
IV.	Repairs, Wages, and Materials.			General repairs, Rupees 1,100; turn-tables Rupees 200; Gardening in station compounds, Rupees 1,000.
	(1.)—Station buildings, yards, &c. ...	2,300	...	
	Signals, gate lodges, &c. ...	200	...	
	(2.)—Staff quarters ...	2,500	...	
	Total, Head IV. ...	5,000	...	
V.	Maintenance by contract	...	...	
	Total, Head V. ...	...	...	
VI.	Unclassified Expenditure.			Includes repairs to Ballast Wagons.
	(1.)—Plantations ...	...	...	
	(2.)—Tools and Plant ...	2,000	...	
	(3.)—Loss on Stores ...	50	...	
	Total, Head VI. ...	2,050	...	
	Grand Total ...	48,923	...	

Proceedings of the Madras Government, Public Works Department,
12th February 1876.

ESTIMATE FOR MAINTENANCE—HALF YEAR ENDING 30TH JUNE 1876.
3rd Division, South-west Line, from Mullupooram to Pothanore.

Head.	Description of Works.	Ordinary.	Extraordinary.	Remarks.
II.	Maintenance, Permanent-way.	RS.	RS.	One Gang consisting of—
	(1.)—Wages—			RS. A. P.
	• 36 Gangs, at Rs. 51-8-0 × 6	11,124	...	1 Maistry ... 11 0 0
	Lorrymen ...	...	...	8 Coolies, at Rs. 5-1-0 ... 40 8 0
	† Establishment, at Rs. 1,335½ × 6	8,011	...	• Total ... 51 8 0
	(2.)—Materials—			Establishment.
	Ballast, C. yds. 7,200, at 8 Annas...	3,600	...	1 Inspector of Night Watchmen... 12 0 0
	Rails ...	5,600	...	1 Sub-Inspector ... 50 0 0
	Sleepers ...	5,900	...	2 Inspector's Assistants, at Rs. 30-0-0 60 0 0
	Total, Head II. ...	34,235	...	4 Do. Writers, at „ 15-0-0 60 0 0
III.	Repairs, Wages, and Materials.			General repairs to bridges.
	(1.)—Bridges and Culverts ...	2,300	...	
	Tunnels ...	...	...	
	Earthwork ...	420	...	
	(2.)—Fences ...	900	...	
IV.	Repairs, Wages, and Materials.			† Reflooring goods shed, Salem ... Rs. 1,000
	(1.)—Station buildings, yards, &c. ...	2,100	3,850	Paving Erode Station Platform ... „ 2,850
	Signals, gate lodges, &c. ...	120	...	
	(2.)—Staff quarters ...	1,200	...	
	Total, Head IV. ...	3,420	3,850	
V.	Maintenance by contract	...	...	
	Total, Head V. ...	...	...	
VI.	Unclassified Expenditure.			
	(1.)—Plantations ...	...	...	
	(2.)—Tools and plant ...	600	...	
	(3.)—Loss on Stores ...	50	...	
	Total, Head VI. ...	650	...	
	Grand Total ...	42,165	3,850	

Proceedings of the Madras Government, Public Works Department,
12th February 1876.

ESTIMATE FOR MAINTENANCE—HALF-YEAR ENDING 30TH JUNE 1876.
4th Division, South-west Line, from Pothanore to Beypore including Nilgiri Branch.

Head.	Description of Works.	Ordinary.	Extraordinary.	Remarks.
II.	Maintenance, Permanent way.			
	(1.)—Wages—			
	• Forty-three Gangs, at Rs. 66 × 6 ...	17,028		One Gang consisting of—
	† Establishment, at Rs. 1,046 × 6 ...	6,276		1 Maistry ... 12 0 0
	9 Men, at Rs. 6 each ...			• Total ... 66 0 0
(2.)—Materials—	Ballast, cubic yards 20,000, at 6 annas	7,500		
	Rails ...	250		
	Sleepers ...	50,000		
	Total, Head II. ...	81,054		
III.	Repairs, Wages, and Materials.			
	(1.)—Bridges and Culverts ...	1,200		
	Tunnels ...			
	Earthwork ...	3,000		
	Fences ...	7,000		
(2.)—Roads and Level Crossings	Miscellaneous ...	350		
	Total, Head III. ...	11,850		
IV.	Repairs, Wages, and Materials.			
	(1.)—Station buildings, yards, &c. ...	2,500		
	Signals, gate lodges, &c. ...	250		
	Staff Quarters ...	2,000		
	Total, Head IV. ...	4,750		
V.	Maintenance by contract			
	Total, Head V. ...			
VI.	Unclassified Expenditure.			
	(1.)—Plantations ...			
	(2.)—Tools and Plant ...	2,000		
	(3.)—Loss on Stores ...	50		
	Total, Head VI. ...	2,050		
	Grand Total ...	99,704		Including repairs to Ballast Wagons.

Proceedings of the Madras Government, Public Works Department,
12th February 1876.

ESTIMATE FOR MAINTENANCE—HALF-YEAR ENDING 30TH JUNE 1876.
1st Division, North-west Line, from Arconum to Cuddapah.

Head.	Description of Works.	Ordinary.	Extraordinary.	Remarks.
II.	Maintenance, Permanent way.			
	(1.)—Wages—			
	• 44 Gangs, at Rs. 52 × 6 ...	13,728		One Gang consisting of—
	Lorrymen ...			1 Maistry ... 12
	† Establishment, at Rs. 2,029 × 6 ...	12,174		8 Coolies, at Rs. 5 ... 40
(2.)—Materials—	Ballast, 12,000 C. yds., at 4 Annas.	3,000		• Total ... 52
	Rails ...	2,500		
	Sleepers ...	2,000		
	Total, Head II. ...	34,402		
III.	Repairs, Wages, and Materials.			
	(1.)—Bridges and Culverts ...	5,000		
	Tunnels ...			
	Earthwork ...	2,000		
	Fences ...	1,500		
(2.)—Roads and Level Crossings	Miscellaneous ...	250		
	Total, Head III. ...	8,850		
IV.	Repairs, Wages, and Materials.			
	(1.)—Station buildings, yards, &c. ...	3,500		
	Signal, gate lodges, &c. ...	100		
	Staff Quarters ...	3,000		
	Total, Head IV. ...	6,600		
V.	Maintenance by contract			
	Total, Head V. ...			
VI.	Unclassified Expenditure.			
	(1.)—Plantations ...			
	(2.)—Tools and Plant ...	2,000		
	(3.)—Loss on Stores ...	50		
	Total, Head VI. ...	2,050		
	Grand Total ...	51,902		Includes repairs to Ballast Wagons.

Proceedings of the Madras Government, Public Works Department,
12th February 1876.

ESTIMATE FOR MAINTENANCE—HALF-YEAR ENDING 30TH JUNE 1876.
2nd Division, North-west Line, from Cuddapah to Goondacul.

Miles maintained.	Departmentally.	By Contract.	Total.
Main line { Double ... Single ...	...	...	...
Sidings ...	111	...	...
Total ...	7 1/2	...	111

Head.	Description of Works.	Ordinary.	Extra-ordinary.	Remarks.
II.	Maintenance, Permanent-way.	Rs.	Rs.	
	(1.)—Wages—			One Gang consisting of—
	* 41 Gangs, at Rs. 47 × 6	11,562	...	1 Maistry ... 13
	Lorrymen ...	...	...	7 Coolies, at 5 Rs. ... 35
	† Establishment, at Rs. 1,814 × 6	10,884	...	* Total ... 47
	(2.)—Materials—			Establishment.
	Ballast, C. yds. 32,832 at Rs. 3-8	7,524	...	1 Inspector of Night Watchmen ... 50
	Rails ...	100	...	6 Do. Assistants, at Rs. 30 ... 180
	Sleepers ...	2,500	...	1 Time-keeper ... 25
	Total, Head II. ...	32,570	...	4 Inspector's Writers, at Rs. 15 ... 60
III.	Repairs, Wages, and Materials.			
	(1.)—Bridges and Culverts ...	5,000	35,220	4 Section Maistries, at ,, 20 ... 80
	Tunnels ...	...	...	6 Store Watchers, at ,, 7 ... 42
	Earthwork ...	4,000	...	1 Carpenter Maistry ... 30
	Fences ...	3,500	...	1 Do. ... 23
	Roads and Level Crossings ...	750	...	1 Do. ... 23
	Miscellaneous ...	1,650	...	4 Carpenters, at Rs. 20 ... 80
	Total, Head III. ...	14,900	35,920	4 Blacksmiths, at ,, 20 ... 80
	Repairs, Wages, and Materials.			4 Hammermen, at ,, 8 ... 32
	(1.)—Station buildings, yards, &c. ...	950	...	4 Bellows-men, at ,, 6 ... 24
IV.	Signals, gate lodges, &c. ...	60	...	1 Tinker ... 20
	(2.)—Staff Quarters ...	750	...	1 Painter ... 20
	Total, Head IV. ...	1,750	...	2 Engineer's Lascars, at Rs. 7 ... 14
	Maintenance by contract ...	...	...	2 Store Coolies, at ,, 6 ... 12
	Total, Head V. ...	...	...	170 Watchmen, at ,, 6 ... 1,020
	Unclassified Expenditure.			† Total ... 1,814
	(1.)—Plantations ...	...	...	Protective Works to bridges ... 5,920
	(2.)—Tools and Plant ...	950	...	Repairs to Pennair bridge ... 30,000
	(3.)—Loss on Stores ...	50	...	
	Total, Head VI. ...	1,000	...	
	Grand Total ...	50,230	35,920	

Proceedings of the Madras Government, Public Works Department,
12th February 1876.

ESTIMATE FOR MAINTENANCE—HALF-YEAR ENDING 30TH JUNE 1876.
3rd Division, North-west Line, from Goondacul to Raichore including Bellary Branch.

Miles Maintained.	Departmentally.	By Contract.	Total.
Main Line. { Double ... Single ...	108 1/2	...	108 1/2
Sidings ...	11 1/2	...	...
Total ...	...	...	108 1/2

Head.	Description of Works.	Ordinary.	Extra-ordinary.	Remarks.
II.	Maintenance, Permanent-way.	Rs.	Rs.	One Gang consisting of—
	(1.)—Wages—			1 Maistry ... 13 0 0
	* 58 Gangs, at Rs. 55 × 6	19,140	...	7 Coolies at Rs. 6 each ... 42 0 0
	Lorrymen ...	...	...	* Total ... 55 0 0
	† Establishment, at Rs. 1,112 × 6	6,672	...	Establishment.
	(2.)—Materials—			1 Inspector's Assistant ... 40 0 0
	Ballast 30,000 cubic yards at Rs. 4	7,500	...	4 Do. Assistants, at Rs. 30-0-0 120 0 0
	Rails ...	700	...	1 Time-keeper ... 20 0 0
	Sleepers ...	1,800	...	3 Writers, at Rs. 20-0-0 60 0 0
	Total, Head II. ...	35,312	...	1 Writer ... 15 0 0
III.	Repairs, Wages and Materials.			
	(1.)—Bridges and Culverts ...	2,000	...	3 Maistries, at Rs. 18-0-0 54 0 0
	Tunnels ...	...	...	1 Carpenter ... 27 0 0
	Earthwork ...	2,000	...	3 Carpenters, at Rs. 20-0-0 60 0 0
	Fences ...	2,000	...	1 Carpenter ... 10 0 0
	Roads and Level Crossings ...	300	...	1 Blacksmith ... 23 0 0
	Miscellaneous ...	900	193	2 Blacksmiths, at Rs. 20-0-0 40 0 0
	Total, Head III. ...	7,200	193	3 Hammermen, at ,, 8-0-0 24 0 0
	Repairs, Wages and Materials.			3 Bellows-boys, at ,, 5-0-0 15 0 0
	(1.)—Station buildings, yards, &c. ...	2,800	87	1 Tinker ... 14 0 0
IV.	Signals, Gate Lodges, &c. ...	200	...	1 Painter ... 20 0 0
	(2.)—Staff Quarters ...	1,500	118	10 Store Watchers, at Rs. 7-0-0 70 0 0
	Total, Head IV. ...	4,500	205	2 Lascars, at ,, 7-0-0 14 0 0
	Maintenance by Contract ...	...	...	62 Watchmen, at ,, 7-0-0 434 0 0
	Total, Head V. ...	...	...	8 Coolies, at ,, 6-8-0 52 0 0
	Unclassified Expenditure.			† Total ... 1,112 0 0
	(1.)—Plantations ...	...	...	† Well at Goondacul Junction Rs. 193.
	(2.)—Tools and Plant ...	3,000	...	
	(3.)—Loss on Stores ...	50	...	
	Total, Head VI. ...	3,050	...	
	Grand Total ...	50,062	898	

CHIEF ENGINEER'S OFFICE,
28th January 1876.

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

Proceedings of the Madras Government, Public Works Department,
12th February 1876.

No. 217.

ORDER THEREON, 12th February 1876, No. 387.

RAILWAY, No. 26.

ORDERED to be forwarded to the
Government of India.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

No. 218.

(DOCKET No. 388, dated 12th February 1876.)
Copy of the above forwarded to the Government of India.
(True Extract.)

Major-General, R.E.,
Secretary to Government.

Ed. S. T. Austin.
Spare Copies

RAILWAY DEPARTMENT

CONSULTING ENGINEER'S OFFICE.

Madras, 1876

No. 78

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 sanction 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
30 June 1876, together with a
summary for the whole line.

2.

The sum set down as
"Extraordinary" expenditure

Amounting

amounting in gross to Rs. 66,614 in-
cludes the estimated outlay
during the half year of Rs. 30,000
on the restoration of the Pennair
bridge damaged by the floods
of October 1874, of Rs. 2,400 for
converting six arched bridges
between Madras and Arcady
into girder bridges, and of
Rs. 3,000 for protective works
to bridges besides other minor
works.

I have the honor to

be

Yours most respectfully

W. L. S.

R. S. S.

per J. S. S.

Handwritten notes and signatures in the top right margin, including the word "March" and several illegible signatures.

50.10.1874

Handwritten notes at the bottom right, including the date "1874" and several lines of text.

Ob. 603.605. 23 July 1875

No. 387-12 July 1875

Ordered to be forwarded
to the Govt. of India
C.E. for Rs.
No. 388 7/12 July 1875

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G.M.W.

Recd. 29. 2. 76

No. 215 @ 218

Forwarding list
showing the amount
for maintenance of
ways works and other
from Revenue fund
in each division
of the R. W. and R. W. &
1st. half of 1876 by the
with a summary of
the whole line.

Dated 8th February 1876.
Recd. 10th February 1876.
No. 1/8

RAILWAY DEPARTMENT.
The Consulting Engineer
for Railways,
To
The Secretary to Government,
P. W. Department,
Fort Saint George.

No. 104

MADRAS

Abstract of Estimates for Maintenance

HEADS OF CHARGES.	Madras Railway		1st Division S. W. Line.		2nd Division
	Total length.		Madras to Sollapet		Sollapet including Branch.
	86 1/2 miles (single) 3 1/2 --- (double)		130 1/2 miles (Single) 3 1/2 --- (Double)		133 1/2 miles
	Amount	Per mile	Amount	Per mile	Amount
Head No. II. { Ordinary.	3,10,500	362	57,904	433	3502
{ Extraordinary.	...	...	"	"	"
Head No. III. { Ordinary.	74,910	87	21,400	160	685
{ Extraordinary.	60,513	71	24,400	183	"
Head No. IV. { Ordinary.	48,180	53	19,150	143	500
{ Extraordinary.	6,104	7	2,049	15	"
Head No. V. { Ordinary... ..	...	...	"	"	"
{ Extraordinary,	...	...	"	"	"
Head No. VI. { Ordinary.	14,900	17	4,150	30	205
{ Extraordinary.	...	...	"	"	"
Total -	5,12,107	597	1,28,953	964	48,91

Chief Auditor

MADRAS RAILWAY,
Chief Engineer's Office,
25th January 1876.
H. G. M. C.
Examined

174 ✓ 116
Sob. of 1876 Madras.

PUBLIC WORKS.

To

14/5
Comg. Supr for Ry.
Govt of Madras

Dated

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G. O 12 Feb. 1876. No.

357
358

Nos. 215 @ 218

122
Sanctions
Madras (P.W.)
1875

that the Sanctions
be for-
warded to the Govt of
Madras

Sanctions
one of
Mr and Mr
James
decision
and Mr
P.W.
of 1876
university
line.