

(1) Number of pages _____

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 1311-1312 408, 410	Press Mis.
Dated 14 5 1872	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
14th May 1872.*

No. 408. Read the following letter from the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 8th May 1872, No. 226 :—

I HAVE the honour to forward, for submission to the Government of India, the Report of Progress made in the construction of the Madras Railway for the quarter ended 31st March 1872, accompanied by a brief descriptive report.

Brief Descriptive Report submitted with Progress Report for quarter ending 31st March 1872.

NEILGHERRY BRANCH LINE.

Earthwork.—This item refers to earthwork in cutting and embankments, including earthwork in connection with the doubling of the main line between Noyel bridge and Pothanore station.

Minor Bridges—Large Bridges.—Under these headings the expenditure on excavation of foundations and masonry is included.

Fencing.—The expenditure on ditch and mound fencing, planting aloes, thorn fence at the junction, and fence drains, is included under this head.

Other items.—These include Engineer's out-bungalow, Engineer's office, making petty roads, contingent establishment, extra earthwork in road approaches and in extra drains, pitching, road and stream diversion, metalling of roads, and gatekeeper's lodges.

Ballast.—This refers to the ballasting of the line, including ballasting in connection with the doubling of the main line between Noyel bridge and Pothanore station.

Permanent-way.—This refers to the leading and laying of the permanent-way of the line, including the doubling of the main line between Noyel bridge and Pothanore station.

Platforms.—This includes the platforms at Coimbatore, Tudialore, and Karamady Stations, and the back verandah and platform at Pothanore station.

Passenger Building.—This includes the station-houses and Native urinals at Coimbatore, Tudialore, and Karamady stations; also the extra accommodation for the Station Master at Coimbatore.

Watering arrangements.—This includes the well staging, water column, and taking up and relaying piping from tank-house to water column at Pothanore station; also the well staging, water column, and tank-house at Karamady station.

Small items.—These include the extra siding in the station yard at Pothanore station, and the miscellaneous works at Karamady, Tudialore, and Coimbatore stations.

SOUTH-WEST LINE.

Watering arrangements.—These include the well staging, piping and laying of do., the zinc shed over steam pump, and the boundary wall around zinc shed (Bangalore).

Small items.—This consists of the boundary wall and alteration of platform at new Central station.

NORTH-WEST LINE.

Large Bridges.—This refers to the new bridges over the Huggry and Cheyaur rivers and the bridge at the 286th mile, 14th Telegraph post.

Platforms.—This refers to the station-house platform, and covered platform at Raichore station, and the open platform at the Toongabudra river.

Passenger Buildings.—These include the station-house, European and Native urinals, refreshment-room and godown at Raichore station, and the station-house at the Toongabudra river.

Goods Shed.—The goods shed and platform and the salt godown at Raichore station are included in this item.

Watering arrangements.—These include the following works at Raichore station, namely, wash-out-cock in engine shed, well staging, water column, piping and laying do., and tank-house; also the additional well staging at Goondacul station.

Staff Quarters.—Under this item are included the following buildings at Raichore station, namely, Staff Bungalow, Station Master's Bungalow, Apothecary's, Double Engine Driver's, Single Engine Driver's, two Firemen's, Telegraph Signaller's, Guard's, and Permanent-way Inspector's bungalows; also the Sub-Inspector's bungalow at Ausprey, the Deputy Postmaster's bungalow at Raichore station, the dwelling-houses for the Native staff of the Traffic Department at Goondacul station, and the dwelling-houses for the Pointsmen and Porters of the Traffic Dept. at Raichore.

Engine Shed.—The engine and carriage sheds at Raichore are the works referred to herein.

Small items.—Under this heading are included the following works at Raichore, namely, shear legs, double engine pits, two blowing off pits, engine and carriage turntables, weigh-bridge, six Scotch blocks, eight signals, weigh-bridge office, cash godown and miscellaneous works; also signals at Goondacul Junction and Toongabudra river, and the weigh-bridge and office at Bellary.

MADRAS, 25th April 1872. (Signed) R. B. ELWIN, Agent and Manager. (Signed) B. ANDERSON, Chief Engineer.

Proceedings of the Madras Government.

MADRAS

A.—General Progress Report of Works on the Neilgherry

References to heads of Estimate.	Details.	TOTAL ESTIMATE.		ACTUAL INDIAN EXPENDITURE.	
		Indian Expenditure.	Value of English Stores.	During quarter.	Total from commencement to end of quarter.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I.	Preliminary Expenses ...				10,954 0 0
II.	Land ...				
III.	Construction of Line ...	7,11,622 0 0	1,01,918 0 0	1,01,320 0 0	3,33,559 0 0
	Earthwork. { Cuttings and embankments ...	2,25,728 0 0		33,951 0 0	1,27,705 0 0
	{ Rock Cutting ...				
	Small Bridges and Culverts ...	2,09,256 0 0	16,374 0 0	46,645 0 0	94,198 0 0
	Large Bridges (as per Statement D.) ...	1,45,665 0 0	89,144 0 0	21,684 0 0	43,414 0 0
	Fencing ...	36,427 0 0		1,725 0 0	2,729 0 0
	Other items ...	1,24,547 0 0		334 0 0	70,834 0 0
IV.	Ballast and Permanent-way ...	2,73,979 0 0	6,71,021 0 0	22,473 0 0	41,655 0 0
	Ballast { Collected. ...	71,726 0 0		10,018 0 0	14,358 0 0
	{ Spread ...				
	Rails { Lifted ...				
	{ Linked in ...				
	{ In Depôt. ...				
	Sleepers { Lifted { Iron ...	2,07,253 0 0	6,71,021 0 0	15,458 0 0	30,267 0 0
	{ Wood ...				
	Laid { Iron ...				
	{ Wood ...				
	In Depôt. { Iron ...				
	{ Wood ...				
V.	Stations and Buildings (as per Statement C.) ...	72,667 0 0	43,819 0 0	6,521 0 0	7,742 0 0
	a. Platforms ...	19,833 0 0	2,570 0 0	3,185 0 0	3,497 0 0
	b. Passenger buildings ...	21,933 0 0	1,401 0 0	3,224 0 0	3,985 0 0
	c. Goods shed ...				
	d. Watering arrangements ...	9,520 0 0	3,064 0 0		
	e. Staff Quarters by rooms ...				
	f. Engine shed ...				
	g. Small items ...	21,601 0 0	36,784 0 0	102 0 0	260 0 0
VI.	Telegraph ...				
VII.	Plant ...	2,639 0 0		0 15 0	0 15 0
VIII.	Rolling Stock (vide Statement D.) ...				
IX.	Maintenance ...	82,789 0 0			
X.	Establishment ...			6,214 0 0	28,015 0 0
XI.	Contingencies ...				

CHIEF ENGINEER'S OFFICE,
27th April 1872.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) C. M. MOBERLY,
Government

Public Works Department, 14th May 1872.

RAILWAY.

RAILWAY.
Branch Line for the quarter ending 31st March 1872.

[illegible]

Captain,
Examiner.

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

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

A.—General Progress Report of the South-

References to heads of Estimate.	Details.	TOTAL ESTIMATE.		ACTUAL INDIAN EXPENDITURE.	
		Indian Expenditure.	Value of English Stores.	During quarter.	Total from commencement to end of quarter.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I.	Preliminary Expenses ...				
II.	Land ...				
III.	Construction of Line ...				
	Earthwork { Cuttings and embankments ...				
	{ Rock Cutting ...				
	Small Bridges and Culverts ...				
	Large Bridges (as per Statement D.) ...				
	Fencing ...				
	Other items... ..				
IV.	Ballast and Permanent-way ...				
	Ballast ... { Collected ...	}			
	{ Spread ...				
	Rails ... { Lifted ...				
	{ Linked in ...				
	{ In Depôt ...				
	Sleepers ... { Lifted ... { Iron ...	}			
	{ Wood ...				
	{ Linked in ... { Iron ...				
	{ Wood ...				
	{ In Depôt ... { Iron ...				
	{ Wood ...				
V.	Stations and Buildings (as per Statement C.) ...	34,500 0 0	2,769 0 0	3,727 0 0	22,064 0 0
	a. Platforms ...				
	b. Passenger shed ...				
	c. Goods shed ...				
	d. Watering arrangements ...	5,147 0 0	2,769 0 0	180 0 0	180 0 0
	e. Staff Quarters by rooms ...				
	f. Engine shed ...				
	g. Small items ...	31,363 0 0		3,547 0 0	21,888 0 0
VI.	Telegraph ...				
VII.	Plant ...				
VIII.	Rolling Stock (vide Statement D.)	1,25,287 0 0		2,726 0 0	85,872 0 0
IX.	Maintenance ...				
X.	Establishment ...	3,25,500 0 0	}	69,380 0 0	3,54,390 0 0
XI.	Contingencies ...	12,000 0 0			

CHIEF ENGINEER'S OFFICE,
27th April 1872.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) C. M. MOBERLY,
Government

Public Works Department, 14th May 1872.

West Line for the quarter ending 31st March 1872.

[illegible]

Captain,
Examiner.

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

(Signed) B. ANDERSON,
Chief Engineer.

A.—General Progress Report of the North-

A.—General Progress Report of the North-									
References to heads of Estimate.	Details.	TOTAL ESTIMATE.				ACTUAL INDIAN EXPENDITURE.			
		Indian Expenditure.		Value of English Stores.		During quarter.		Total from commencement to end of quarter.	
		RS.	A. P.	RS.	A. P.	RS.	A. P.	RS.	A. P.
I.	Preliminary Expenses ...								
II.	Land ...								
III.	Construction of Line ...	5,15,300	0 0	6,07,190	0 0	4 0 0	1,07,393	0 0	
	Earthwork. { Cuttings and embankments ...								
	{ Rock Cutting ...								
	Small Bridges and Culverts ...								
	Large Bridges (as per Statement D)	5,15,300	0 0	6,07,190	0 0	4 0 0	1,07,393	0 0	
	Fencing ...								
	Other items ...								
IV.	Ballast and Permanent-way ...								
	Ballast { Collected ...								
	{ Spread ...								
	Rails { Lifted ...								
	{ Linked in ...								
	{ In Depot ...								
	Sleepers { Lifted { Iron ...								
	{ Wood ...								
	{ Linked in { Iron ...								
	{ Wood ...								
	{ In Depot { Iron ...								
	{ Wood ...								
V.	Stations and Buildings (as per Statement C.) ...	3,30,612	0 0	1,35,572	0 0	20,725	0 0	2,47,623	0 0
	a. Platforms ...	29,263	0 0	8,600	0 0			14,646	0 0
	b. Passenger buildings ...	39,427	0 0	3,090	0 0	5,527	0 0	35,542	0 0
	c. Goods shed ...	38,746	0 0	12,120	0 0	6,989	0 0	35,968	0 0
	d. Watering arrangements ...	12,709	0 0	4,913	0 0	857	0 0	10,114	0 0
	e. Staff Quarters ...	66,190	0 0			2,736	0 0	52,888	0 0
	f. Engine shed ...	51,338	0 0	23,840	0 0	3,308	0 0	35,032	0 0
	g. Small items ...	92,939	0 0	83,009	0 0	1,308	0 0	63,473	0 0
VI.	Telegraph ...								
VII.	Plant ...								
VIII.	Rolling Stock (vide Statement D.) ...								
IX.	Maintenance ...	3,81,116	0 0			41,353	0 0	3,70,703	0 0
X.	Establishment † ...								
XI.	Contingencies † ...								

CHIEF ENGINEER'S OFFICE (S...)

CHIEF ENGINEER'S OFFICE,
27th April 1872.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) C. M. MOBERLY,
Government

Public Works Department, 14th May 1872.

West Line for the quarter ending 31st March 1872.

[illegible]

Captain,
Examiner.

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

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

B.—Progress Report of large Bridges on the Neilgherry Branch from 0 Mile to 25 Miles 14 Chains for quarter ending 31st March 1872.

*Proceedings of the Madras Government, Public Works Department,
14th May 1872.*

Names.	Foundations.	Abutments and Piers up to springing or Girder level.	Arching or erection of Girders.	Other items.	Remarks.
At 5 miles 68 chains	Laid	S. abutment foundations laid from bottom 12½ feet. N. abutment foundations laid from bottom 16½ feet. 60			Four 64 feet openings with wrought-iron girders.
a. Per-centage done b. Date of completion At 19 miles 4 chains					
a. Per-centage done b. Date of completion At 11 miles 7 chains	Foundations of piers not yet laid.	Abutments ready to girder stone level. 51 31st December 1872. Both abutments laid to the top of the girder stone level. 60			Do. do. do.
a. Per-centage done b. Date of completion At 10 miles 11 chains	Laid	31st December 1872. Both abutments laid to the top of the girder stone level. 43			Do. do. do.
a. Per-centage done b. Date of completion At 12 miles 3 chains		31st December 1872. S. abutment to be top of girder stone level. Pier laid 3 feet below top of girder stone level. 37			Double 64 feet openings do. do.
a. Per-centage done b. Date of completion	Laid	31st December 1872.			Do. do. do.

B.—Progress Report of large Bridges on the Neilgherry Branch, etc.—(Concluded.)

*Proceedings of the Madras Government, Public Works Department,
14th May 1872.*

Names.	Foundations.	Abutments and Piers up to springing or Girder level.	Arching or erection of Girders.	Other items.	Remarks.
At 5 miles 29 chains	Laid	S. abutment and 1 pier to the bottom of girder stone level. N. abutment 3 feet below top of girder stone level. 68			Double 64 feet openings with wrought-iron girders.
a. Per-centage done b. Date of completion At 6 miles 46 chains		31st December 1872. S. abutment laid to the bottom of girder stone level. N. abutment foundations 4' 4" laid. 64			Triple 30 feet openings do. do.
a. Per-centage done b. Date of completion At 24 miles 34 chains		31st December 1872.			Single 12 feet arch.
a. Per-centage done b. Date of completion	Not commenced as yet.				31st Dec. 1872. { Girders not expected from England for some months.

CHIEF ENGINEER'S OFFICE,
27th April 1872.

(Signed) B. ANDERSON,
Chief Engineer.

B.—Progress Report of large Bridges on the South-West Line for the quarter ending 31st March 1872.

CHIEF ENGINEER'S OFFICE,
27th April 1872.

Nil.

(Signed) B. ANDERSON,
Chief Engineer.

*Proceedings of the Madras Government, Public Works Department,
14th May 1872.*

B.—Progress Report of large Bridges on the North-West Line for the quarter ending 31st March 1872.

Names.	Foundations.	Abutments and Piers up to springing or Girder level.	Arching or erection of Girders.	Other items.	Remarks.
New Cheyaur Bridge at 135 miles 50 chains. a. Per-centage done ... b. Date of completion ...	Not commenced as yet.				Excavation of foundations begun in April.
Bridge at 286 miles 14 Telegraph Post. a. Per-centage done ... b. Date of completion ...	Not commenced as yet.				Girders delivered; work put in hand in April.
Huggry Bridge at 297 miles 13 chains ...		9 Screw pile piers on Bellary side are finished; the remaining piers are waiting for cylinders from England. 10	7 sets of girders riveted on Bellary bank, and 6 sets of girders riveted on Madras bank.		
a. Per-centage done ... b. Date of completion ...	 Nil.				

CHIEF ENGINEER'S OFFICE,
27th April 1872.

(Signed) B. ANDERSON,
Chief Engineer.

*Proceedings of the Madras Government, Public Works Department,
14th May 1872.*

C.—Progress Report of Stations for the Neilgherry Branch Line for the quarter ending 31st March 1872.

Names of Stations.	A. Platforms.	B. Passenger Buildings.	C. Goods Shed.	D. Watering arrangements.	E. Staff Quarters (by rooms.)	F. Engine Shed.	G. Small items.	Remarks.
Tudialore at 9 miles 5 chains. a. Per-centage done ... b. Date of completion ...	92 30th June 1872.		 Nil.	 Nil.	 Nil.	 Nil.		
Karamady at 20 miles 43 chains. a. Per-centage done ... b. Date of completion ...	79 30th June 1872.		 Nil.	 Not commenced.	 Nil.	 Nil.		
Coimbatore at 2 miles 77 chains. a. Per-centage done ... b. Date of completion ...	 }	Not commenced	as yet.					Pending sanction to the complete estimate.
Pothanore at 301 miles 69 chains. a. Per-centage done ... b. Date of completion ...	 }	Not commenced	as yet.					Put in hand in April.

CHIEF ENGINEER'S OFFICE,
27th April 1872.

(Signed) B. ANDERSON,
Chief Engineer.

CHIEF ENGINEER'S OFFICE,
27th April 1872.

Nil.

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

*Proceedings of the Madras Government, Public Works Department,
14th May 1872.*

C.—Progress Report of Stations on the North-West Line for the quarter ending 31st March 1872.

Names of Stations.		A. Platform.	B. Passenger Buildings.	C. Goods Shed.	D. Watering arrange- ments.	E. Staff Quar- ters (by rooms.)	F. Engine Shed.	G. Small items.	Remarks.
Toongabudra Station at 332 miles 71 chains.									
a. Per-centage done ...	...	} Finished.	Finished.	...	...	...	...	...	
b. Date of completion...	...	}							
Raichore Station at 350 miles 33 chains.									
a. Per-centage done ...	...	* }	Finished. {	95-00 30th June 1872.	+ 90-00 30th Sep- tember 1872.	Finished. {	80 00 30th Sep- tember 1872.	+ 90-00 30th Sep- tember 1872.	* Station-house platform com- pleted. Covered platform work stopped. †Awaiting sanction for altera- tion proposed. Wash-out-cock in engine shed not put in. ‡Shear legs not erected. Ash- pit under shear legs not con- structed.
b. Date of completion...	...	}							

CHIEF ENGINEER'S OFFICE,
27th April 1872.

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

D.—General Progress Report of Work in erecting and building Locomotive and Rolling Stock for quarter ending 31st March 1872.

Description	Number Sanctioned.	Number erected up to 31st March 1871.	NUMBER ERECTED DURING CURRENT YEAR.		Building or under erection at end of quarter.	Arrived at Shops during quarter.	Arrived at Port during quarter.	Balance to arrive in Port.	Remarks.
			During quarter.	To end of quarter.					
Locomotives	126	126							
Tenders	106	106							
Sleeping carriages	4	4							
First-class do.	22	15							
Second-class do.	57	55							
Second-class do. brakes	5								
Third do. do.	30	30							
Do. do. do.	207	146		25	10				
Coaly class or covered carriages	25	25							
Third do. upper-storied carriages	2	2							
Composite carriages	31	26							
Night do. do.	16	6			10				
Engineer's Inspection carriage with brake	1	1							
Passengers' luggage vans	25	25							
Carriage trucks	30	20							
Horse-boxes	50	30			10				
Ballast waggons	244								
Open-sided goods waggons	293								
Open goods waggons	30	302							
High-sided open goods waggons	50	50							
High open goods waggons	2,152	1,860							
Road waggons with brake	5	5							
Covered goods waggons	25	22							
Coke waggons	75	28							
Timber trucks	360	440							
Gun-powder vans	130	144							
Oil Store vans	3	3							
Water trucks	4	4							
Cattle waggons	35	35							
Platform trucks		56							
Goods brake vans	69	41							
Road waggons	7	7							
Travelling cranes	4	4							
Fire-engine trucks	2								
Buffer springs									
Carriage and wagon springs									
Draw springs									
Axles									
Wheels, pairs of									
Sets of iron work carriages									
Do. do. waggons									
	8,772	8,553	95	95	30				

* Sanction received in Government Order Nos. 272 and 3,004, dated 22nd January and 12th December 1870, for conversion of two of these vehicles into fire-engine trucks, 293 into high-sided open goods waggons, and 10 into carriage trucks.

† Sanction received from Consulting Engineer, No. 397, dated 14th May 1864, for conversion of three of these vehicles into road brake waggons.

‡ Sanction received in Government Order No. 3,004, dated 12th December 1870, for conversion of fifty of these vehicles into covered goods waggons.

§ Sanction received from Consulting Engineer, No. 397, dated 14th May 1864, for conversion of these six vehicles into timber trucks.

• PERAMBORE,
23rd April 1872.

Certified as to number sanctioned and number erected.

CHURCH,
Chief Auditor.

(Signed) W. B. WRIGHT,
Locomotive Superintendent.

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*Proceedings of the Madras Government, Public Works Department,
14th May 1872.*

No. 409.

ORDER THEREON, 14th May 1872, No. 1,311.

RAILWAY, No. 60.

ORDERED that this Report be forwarded to the Government of India.

(True Extract.)

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

No. 410.

DOCKET No. 1,312, dated 14th May 1872.
Copy of the above forwarded to the Government of India.

(True Extract.)

Colonel, R.E.,
Officiating Secretary to Government.

Gobt. of 1872 Madras

PUBLIC WORKS.

To

THE SECRETARY TO THE GOVERNMENT

OF INDIA

Dated May, 14th.

Recd.

Encl.

G. O., 14th May 1872, No. 1,312.

MAY.

Nos. 403 410

FORWARDING report of the progress made in the construction of the Madras Railway for the quarter ending 31st March 1872.

Railway Department Consulting Engineer's Office
N^o 226

From
Lieut. Col. J. H. M. Shaw Stewart R.E.
Cons Engrs for Railways
To

The Secretary to Government
Public Works Department
Fort St George.

Sir,

I have the honour to forward, for submission to the Government of India, the report of progress made in the construction of the Madras Railway for the quarter ended 31st March 1872, accompanied

accompanied by a brief descriptive
report -

I have the honour to be,
Sir,

Your most obedient servant,

Madras
8th May 1872
W. Muntz
Cons Eng. for Railways
Leint Hill P.C.

PM 2328/92

B

Madras

Progress Report of Large Bridges on the South

Names	Foundations	Abutments or Piers up to springing or guide level
	Nil	

Madras Railway
Chief Engineer's Office
27th April 1872

Railway

B

West Line for the Quarter ending 31st March 1872

Arching or erection of piers	other items	Remarks
Nil		

Shepherd Archibald
Chief Engineer
R.R.

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B. Madras
Progress Report of Large Bridges on the

Names	Foundations	Structures & Piers up to springing or 4 piers level
New Cheyair Bridge at 135 Ms. 50 Chs. a. Percentage done b. Date of completion	Not commenced	
Bridge at 286 Miles, 14 Telegraph Post. a. Percentage done b. Date of completion		do
Huggay Bridge at 297 Ms. 13 Chs. a. Percentage done b. Date of completion	Nil	9 screw Pile Piers on Bellary side are finished the remaining Piers are waiting for Cylinders from England. 10

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Madras Railway
Chief Engineer's Office
27 April 1872

Railway B.
North West Line for the Quarter ending 31st March 1872.

Anchoring or erection of Girders	Other items	Remarks.
as yet		Excavation of foundations begun in April.
do.		Girders delivered, work put in hand in April
7 sets of Girders rivetted on Bellary Bank and 6 sets of Girders rivetted on Madras Bank		

8

5

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Chief Engineer -
Chief Engineer.
R.R.

13.

Madras.

Progress Report of Large Bridges on the Kelgherry

Names	Foundations	Abutments & Piers up to springing or under level.
At 5 Miles 68 chains ✓ A. Percentage done ✓ B. Date of completion ✓	Laid	Substructure foundations laid from bottom of 1st pier to abutment 172 ft 60. ✓ 31 st December 1872. ✓
At 19 Miles 4 chains ✓ A. Percentage done ✓ B. Date of completion ✓	Foundations of Pier not yet laid.	Abutments & piers to grade alone level. ✓ 51 ✓ 31 st December 1872. ✓
At 11 Miles 7 chains ✓ A. Percentage done ✓ B. Date of completion ✓	Laid	Both abutments laid to the top of the girder 110 ft 60 ✓ 31 st December 1872. ✓
At 10 Miles 11 chains ✓ A. Percentage done ✓ B. Date of completion ✓	Laid	Both abutments laid to the top of the girder alone level. ✓ 143 ✓ 31 st December 1872. ✓
At 12 Miles 3 chains ✓ A. Percentage done ✓ B. Date of completion ✓	Laid	Substructure laid to the top of girder alone level. Pier laid 5 ft below top of girder alone level. ✓ 37 ✓ 31 st December 1872. ✓
At 5 Miles 29 chains ✓ A. Percentage done ✓ B. Date of completion ✓	Laid	Substructure & pier to the bottom of girder alone level. Substructure 3 ft below top of girder alone level. ✓ 88 ✓ 31 st December 1872. ✓
At 6 Miles 46 chains ✓ A. Percentage done ✓ B. Date of completion ✓	Laid	Substructure laid to the bottom of girder alone level. Substructure 3 ft below top of girder alone level. ✓ 64 ✓ 31 st December 1872. ✓
At 24 Miles 34 chains ✓ A. Percentage done ✓ B. Date of completion ✓	Not commenced as yet.	

Madras Railway

Chief Engineer's Office

27 April 1872

Railway

13.

Branch from 0 Mile to 25 Mo. 14 Chs. for quarter ending 31st March 1872.

Arching or section of bridge	Other items.	Remarks.
		Four 64 ft openings with wrought-iron girders
		8° ——— 8° ——— 8° ———
		8° ——— 8° ——— 8° ———
		Double 64 ft Opening — 8° ——— 8° ———
		8° ——— 8° ——— 8° ———
		8° ——— 8° ——— 8° ———
		Triple 30 ft Opening — 8° ——— 8° ———
		Single 12 ft Arch. —
		31 st Dec 1872 { Girders not expected from England for some months

Wm. A. A. A. A.
Chief Engineer
R. E.

C Madras
Progress Report of Stations on the South

Stations	A Platforms	B Passenger Buildings	C Goods Shed
	Nil		

Madras Railway
Chief Engineer's Office
27. April 1842

Railway.

West Side for the Quarter ending 31st March 1874

d	e.	f.	g.	
Watering arrangement	Staff Quarters (by room)	Engine Room	Small items.	Remarks.
	NB			

Wesford Anderson -
Chief Engineer

Madras

Progress Report of Stations on the North

Name of Stations	a Platform	b Passenger buildings	c Goods Shed
Tongabiedra Station at 332 M. 71 Ch.			
a. Percentage done			
B. Date of Completion	Finished	Finished	"
Raichur Station at 350 M. 33 Ch.			
a. Percentage done			
B. Date of Completion	*	Finished	95.00 30 th June 1872

Madras Railway
Chief Engineer's Office
27th April 1872

Railway

West Line for the quarter ending 31st March 1872

d. watering arrangements	e Staff quarters by Rooms	f. Engine Shed	g. Small items	Remarks
90.00 30 th Septemb 72	Finished	80.00 30 th Septemb 72	90.00 30 th Septemb 72	* Station house Platform completed Covered Platform work stop for awaiting puncture for all traction proposed. Wash out track in engine Shed not put in. Shear legs not erected. Asb pit under shear legs not constructed.

Respect Anshu -
Chief Engineer
R

M 1328/72

C. Madras
Progress Report of Stations for the Neilgherry

Names of Stations	A. Platforms	B. Passenger Buildings	C. Goods shed
Indialoor at 9 Miles 5 chains	A. Percentage done 92 B. Date of completion 30 June 77		Nil
Karamadyal 20 Miles 45 chains	A. Percentage done 79 B. Date of completion 30 June 77		do.
Perambalur at 21 Miles 77 chains	A. Percentage done B. Date of completion	Not commenced	
Pothanur at 30 Miles 69 chains	A. Percentage done B. Date of completion		do.

Madras Railway
Chief Engineer's Office
27 April 1872

C. 14
Railway
Branch Line for the Quarter ending 31st March 1872.

A. Watering arrangements	B. Staff Quarters	C. Engine shed	D. Small items	E. Remarks
Nil	Nil	Nil		
Not commenced	do	do		
as yet				pending sanction to the complete Estimate.
do.				put in hand in April.

Stiefel and Sons
Chief Engineer
Rt

Pr 2328/72

Reference to heads of Estimate	Details	Total Estimate		Actual Indian Expenditure	
		Indian Expenditure	Value English Pounds	During Quarter	Total from Commence- ment of Quarter
I	Preliminary Expenses				
II	Land				
III	Construction of Line Earthwork { Cuttings & Embankments Rock Cutting	515,300	607,190	14	107,393
	Small Bridges & Culverts				
	Large Bridges (as per Statement II)	515,300	607,190	14	107,393
	Fencing other items				
IV	Ballast and Permanent Way				
	Ballast { Collected Spread Lifted				
	Rails { Linked in In Depot				
	Sleepers { Lifted { Iron Wood Linked in { Iron Wood In Depot { Iron Wood				
V	Stations & Buildings (as per Statement II)	330,612	135,572	20,725	247,663
	a. Platforms	29,263	8,800	"	14,648
	b. Passenger Buildings	39,427	3,090	5527	35,542
	c. Goods Shed	38,746	12,120	6,989	35,968
	d. Watering arrangements	12,709	4,913	857	10,114
	e. Staff Quarters	66,190	"	2,736	52,888
	f. Engine Shed	51,338	23,840	3,308	35,032
	g. Small items	92,939	83,009	1,308	63,473
VII	Telegraph				
VIII	Rolling Stock (vide Statement II)				
IX	Maintenance	3,81,116	"	4,1353	37,0708
X	Establishment	x			
XI	Contingencies	x			

Madras Railway }
Chief Engineer's Office }
27 April 1872 }
Wm. J. Fox }
Chief Auditor of }
Accounts }

[illegible]

Respectfully
Yours
Wm. H. Miller
Chief Engineer
U. S. Fish Commission

Madras Railway

General Progress Report of Works on the Kilghery Branch Line for Quarter ending 31st March 1872

Reference to heads of estimate	Details	Total Estimate		Actual Indian Expenditure		Numbers			Quantities			Quantities Remaining		Probable date of completion		Remarks
		Indian Expenditure	Value of English Stores	During Quarter	Total from Commencement to end of Quarter	Total	in hand	In hand	Total as per estimate	Executed during Quarter	Executed to end of Quarter	Total arrived in Port	Arrived during Quarter		By which the Branch may finally be laid off unrequited	
I	Preliminary Expenses				10,954											
II	Land				Nil.											
III	Construction of Line	741,623	105,518	104,339	338,880				Cyds 821,794	Cyds 902,666	Cyds 566,994					31 st March 72
	Earthwork { Cuttings & Embankments Rock Cutting	225,728	"	33,951	127,705	100	100	100								31 st March 72
	Small Bridges & Culverts	209,256	16,374	46,645	94,198	100	100	100								31 st March 72
	Large Bridges (as per statement)	145,615	89,144	21,684	43,414	Mile	Mile	Mile								
	Trenching	36,427	"	17,25	2,729	50.18	5.35	8.21								
	Other Items	124,547	"	334	70,834	8	8	8								31 st March 72
IV	Ballasts Permanent Road	278,979	67,102	25,476	44,625											
	Ballast { Collected Spread	71,726	"	10,018	14,358	25.09	5.52	19.57								31 st March 72
	Rails { Lifted Laid down In depot					25.09	3	22.09				10,901				
	Sleepers { Lifted { Saw Laid { Wood	207,253	67,102	15,458	30,267	25.09	"	"				59,464				31 st March 72
	Sleepers { Laid { Saw In depot { Wood															31 st March 72
V	Stations & Buildings (as per statement)	42,937	43,819	651	7742	14	"	14								
	a. Platforms	19,853	2,570	3,185	3,497	4	"	4								31 st March 72
	b. Passenger buildings	21,983	14,01	3,224	3,915	4	"	4								
	c. Goods shed					2	"	2								
	d. Watering arrangements	9,520	3,064	"	"	"	"	"								
	e. Staff Quarters & By-rooms					"	"	"								
	f. Engine shed					"	"	"								
	g. Small items	21,601	36,784	102	260	4	"	4								
VI	Telegraph															
VII	Signal	1639	"	" 15 "	" 15 "											
VIII	Rolling Stock (vide statement)															
IX	Maintenance	82,789														
X	Establishment			6,214	28,015											
XI	Contingencies															

Madras Railway
Chief Engineer's Office
27 April 1872

Wm. W. W. W.
Chief Auditor

W. W. W. W.
Chief Engineer

31 3

Brief descriptive report submitted with Progress Report for quarter ending 31st March 1872.

Neilgherry Branch Line.

Earthwork. This item refers to Earthwork in cutting and embankments and ~~road cutting of the line~~ including earthwork in connection with the doubling of the main line between Noyel Bridge and Pothanore Station.

Minor Bridges } Under these headings the expenditure on excavation
Large Bridges } of foundations and masonry is included.

Fencing } The expenditure on ditch and mound fencing, planting allos, thorn fence at the junctions, and fence drains, is included under this head.

Other items. These include Engineer's out bungalow, Engineer's office, making petty roads, Contingent Establishment, Extra Earthwork on road approaches and in extra drains, Pitching, Road & stream diversion, metalling of roads and Gatekeepers' lodges.

Ballast This refers to the ballasting of the line including ballasting in connection with the doubling of the main line between Noyel Bridge and Pothanore Station.

Permanent way. This refers to the leading and laying of the permanent way of the line, including the doubling of the main line between Noyel Bridge and Pothanore Station.

Platforms. This includes the Platforms at Coimbatore, Indialore and Karamady Stations and the back Verandah and Platform at Pothanore Station.

Passenger building. This includes the station houses and native Urinals at Coimbatore, Indialore, and Karamady Stations; also the extra accommodation for the Station Master at Coimbatore.

Watering Arrangements. This includes the Well-staging, water column, and taking up and relaying piping from tank house

to water Column at Pothanore Station, also the well staging, water Column and tank house at Karamady Station.
Small items. These include the extra piping in the station yard at Pothanore Station, and the miscellaneous works at Karamady, Indialore and Coimbatore Stations.

South West Line.

Watering arrangements. These include the well staging, piping and laying of - do -, the zinc shed over steam pump, and the boundary wall around zinc shed (Bangalore).
Small items. This consists of the Boundary wall and Alteration of platform at Sub Central Station.

North West Line.

Large Bridges. This refers to the new Bridges over the Angary and Cheppar Rivers and the Bridges at the 280 mile 14 Telegraph post.

Platforms. This refers to the station house Platform, and Covered Platform at Raichore Station, and the open Platform at the Longabudra river.

Passenger Buildings. These include the station house, European and Native Urinals, Refreshment room and Godown at Raichore Station and the station house at the Longabudra river.

Goods Shed. The Goods shed and platform and the salt godown at Raichore Station are included in this item.

Watering arrangements. These include the following works at Raichore Station, viz. Wash out. Coek in Engine shed, well staging, water Column, Piping and laying - do -, and Tank house, also the additional well staging at Gondaenul Station.

Staff Quarters. Under this item are included the following buildings at Raichore Station, viz. Staff Bungalow.

Station Master's Bungalow, Apothecary's, Double Engine Driver's, Single Engine Driver's, 2 Firemen's, Telegraph Signaller's, Guards, and Permanent Way Inspectors bungalows also the Subinspectors Bungalow at Anuprey, the Deputy Post Master's Bungalow at Raichore Station, the dwelling houses for the Patrio Staff of the Traffic Department at Gondal Station, and the dwelling houses for the Porters and Posters of the Traffic Department at Raichore.

Engine sheds. The Engine and Carriage sheds at Raichore are the works referred to herein.

Small items. Under this heading are included the following works at Raichore, viz. Shear legs, Double Engine Rigs, 2 Blowing off pits, Engine and Carriage Sprints, Weigh Bridge, 6 Section blocks, 8 signals, Weigh bridge Office, Check platform and miscellaneous works; 1 also signals at Gondal Junction, and Longabudra River, and the Weigh bridge and Office at Bellary.

Mahar Railway Co.
Chief Engineer's Office.
Mahar, 25 April, 1872.

W. P. Anand
Chief Engineer.

[Signature]
Agent & Manager

Handwritten signature: *Wm. D. Lusk*

[Illegible handwritten signature]

Annual Progress Report of Works in Preaching and Building (commencing and closing 31st March 1872).

[illegible]

Wm. Thompson
14 April 1890

certified to have been examined and found correct.

James W. Johnson
Chief Auditor

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Bernardino Fernandez

2/2328 .

1. of 1872. Madras.

PUBLIC WORKS. V

to Consulting Eng^r for
Railways
and
Sec^y to the Govt
of India

Encl. 11.

14th May 1872. 1311-
1312.

Nos. 408 409 & 410

on Railway Report.

submitted by the Eng^r to the
the progress made in
the construction of the
Madras Ry for the
quarter ended 31st

1872. Ordered to be
sent to the Govt. of India.