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(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. 2945-46 Press
~~B.P. No.~~ ~~Mis.~~

Dated 2-11- C876 195 .

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RAILWAY DEPARTMENT.

CONSULTING ENGINEER'S OFFICE,

Madras, 26th October 1876.

No. 518.

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 honour to
close herewith for transmissi
the Government of India in
P.W. Department statements
B, C, and D showing progres
made during the quarter
ended 30th September 1876 o
the construction works of
northern and southern
tensions, and in the erec
of the metre gauge rolli
stock, of the South I
Railway, together with
usual descriptive report.

I

Chief Engineer. ..

The particulars in regard to the estimate and expenditure on each main and sub head of the Capital Account for this period will be forwarded to you, as soon as they are received from the Agent.

I have the honour to be,
Sir,
Your Most Obedt. Servant,
C. Lewitt Major R.E
for Cons. Engr for Railways

P.W.D.
2800176
No. 1779

RAILWAY DEPARTMENT.

From

The Consulting Engineer
for Railways,

To

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

Dated 26 } October 1876.
Received

No. 518

Forwarding the progress report of the Northern and Southern Extensions for quarter ended 30th September 1876

2016-8-75 Lg 212.

Exd 30-10-76.

Form No. 52.

SOUTH INDIAN RAILWAY.

ENGINEERING DEPARTMENT.

General Progress Report of the Southern Extension from Trichinopoly to Tuticorin 215 Miles 1 Chains for the Quarter ending 30 September 1876.

Reference to heads of Estimate	DETAILS.	Total Estimate. Indian Expenditures.	Total Estimate. Value of English Stores.	Actual Indian Expenditures. During Quarter.	Actual Indian Expenditures. Total from commencement to end of Quarter.	Numbers. Total. Miles. Chains.	Numbers. Finished. Miles. Chains.	Numbers. In hand. Miles. Chains.	Quantities. Total as per Estimate. Cubic. Feet.	Quantities. Executed during Quarter. Cubic. Feet.	Quantities. Executed to end of Quarter. Cubic. Feet.	Probable date. Of completion.	Probable date. By which Permanent way can be laid if urgently required.	REMARKS.
III.	CONSTRUCTION OF LINE													
	Earthwork, Embankments, Cuttings, &c.					215 1	215 1	0 0	107,584,524	-	111,278,488			
	Minor Bridges and Culverts					590	590	-	1,285,557	-	1,071,475			
	Large Bridges (as per Statement B.)					31	31	-	599,967	-	473,842			
	Fencing					215 1	215 1	-	-	-	-			
	Other items					-	-	-	-	-	169,327			Culverts under Level crossings & Station Compounds &c
IV.	BALLAST AND PERMANENT WAY													
	Ballast — Collected					227 47	-	-	13,250,925	-	15,424,044			
	Ballast — Spread					-	-	-	-	-	-			
	Rails — Lifted					-	224 17	-	-	-	-			
	Rails — Linked in					-	224 17	-	-	-	-			
	Rails — In depôt					-	-	57	-	-	-			at Trichinopoly
	Wooden Sleepers — Lifted					-	224 17	-	-	-	-			
	Wooden Sleepers — Laid					-	224 17	-	-	-	-			
	Wooden Sleepers — In depôt					-	-	-	-	-	-			
V.	STATIONS AND BUILDINGS, (as per Statement C.)													
	(a) Platforms					42	41	-	-	-	-	31st December 1876		
	(b) Passenger Buildings					41	40	1	-	-	-			
	(c) Goods Sheds					18	16	1	-	-	-			
	(d) Watering Arrangements					19	15	3	-	-	-			
	(e) Staff Quarters, by rooms					399	192	a 104	-	-	-			
	(f) Engine Sheds					4	4	-	-	-	-			
	(g) Small Items					159	120	39	-	-	-			
	Temporary Workshop					-	80%	-	-	-	-			
	Do Staff Quarters					-	100%	-	-	-	-			

a. 60 now estimated last quarter.

Chief Engineer's Office,
Trichinopoly
30th September 1876

William Bell
Agent

Acting
Dy Chief Engineer.

Form No. 52 B.

SOUTH INDIAN RAILWAY.

ENGINEERING DEPARTMENT.

PROGRESS REPORT of Large Bridges in Southern / Extension from Trichinopoly to Dindigul 215 Miles 1 Chains for Quarter ending 30th September 1876

	Names of Bridges.	Foundations.	Abutments and Piers up to springing or Girder level.	Arching or erection of Girders.	Other Items.	REMARKS.
District No. 1	Bridge at 0 M: 50 Chains					
	Per Centage done	100	100	100		5.20 Feet Girders
	Date of Completion	Completed	Completed	Completed		
No 1	Coriar Bridge at 3 M: 45 Chs					
	Per Centage done	100	100	100	100	5.30 Feet Girders
	Date of Completion	Completed	Completed	Completed	Completed	
No 1	Bridge at 4 M: 2 Chs: 61 Links					
	Per Centage done	100	100	100	100	4.20 Feet Girders
	Date of Completion	Completed	Completed	Completed	Completed	
No 2	Bridge at 7 M: 41 Chs					
	Per Centage done	100	100	100		4.20 Feet Girders
	Date of Completion	Completed	Completed	Completed		
No 2	Bridge at 9 M: 51 Chs					
	Per Centage done	100	100	100		3.20 Feet Girders
	Date of Completion	Completed	Completed	Completed		
No 3	Bridge at 11 M: 45 Chs					
	Per Centage done	100	100	100		5.20 Feet Girders
	Date of Completion	Completed	Completed	Completed		
No 3	Bridge at 13 M: 40 Chs					
	Per Centage done	100	100	100		1.70 Feet Girders
	Date of Completion	Completed	Completed	Completed		
No 3	Bridge at 14 M: 45 Chs: + 39 Links					
	Per Centage done	100	100	100		3.30 Feet Girders
	Date of Completion	Completed	Completed	Completed		
No 4	Bridge Kullar Nullah at 5 M: 70½ chs:					
	Per Centage done	100	100	100	100	2.30 Feet Girders
	Date of Completion	Completed	Completed	Completed	Completed	
No 4	Muduppadi River at 8 M: 42 Chs: + 70 Links					
	Per Centage done	100	100	100		5.30 Feet Girders
	Date of Completion	Completed	Completed	Completed	Completed	
No 5	Amavoolootham Nullah at 8 M: 8 Chs: + 96 Links					
	Per Centage done	100	100	100	100	2.30 Feet Girders
	Date of Completion	Completed	Completed	Completed	Completed	
No 7	Vygay Bridge at 6 M: 13 Chs: + 40 Links					
	Per Centage done	100	100	100		15.40 Feet Girders
	Date of Completion	Completed	Completed	Completed		

Form No. 52 B.

	Names of Bridges.	Foundations.	Abutments and Piers up to springing or Girder level.	Arching or erection of Girders.
District No. 8.	Sundar Bridge at 5 Mi: 57 Chs: 4 50 Links ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 8	Shevaraeday Bridge at 10 Mi: 46 Chs: 4 49 Links ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 8	Bridge at 14 Mi: 10 Chs: 4 50 Links ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 9	Virdupatti River at 7 Mi: 81 Chs: 4 68 Links ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 9	Valingapuri at 13 Mi: 72 Chs: ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 9	Vechaeerapatti at 14 Mi: 2 Chs: ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 10	Bridge at 2 Mi: 72 Chs: ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 10	Bridge at 6 Mi: 35 Chs: 4 46 Links ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 10	Bridge at 8 Mi: 31 Chs: 4 14 Links ✓			
	Per Centage done	100	100	100
	Date of Completion	Completed	Completed	Completed
No. 10	Bridge at 8 Mi: 64 Chs: ✓			
	Per Centage done	100	100	100

Form No. 52 B.)

9

	Names of Bridges.		Foundations.	Abutments and Piers up to springing or Girder level.	Arching or erection of Girders.	Other Items.	REMARKS.
Wistrict No. 12.	Bridge at 3 M: 24 Chs: 415 Links						3.20 Feet Girders.
	Per Centage done		100	100	100		
	Date of Completion		Completed	Completed	Completed		
No. 15	Kurthapilli Nuttum Nullah at 2 M: 45 Chs: 4	98 Links					3.50 Feet Girders.
	Per Centage done		100	100	100		
	Date of Completion		Completed	Completed	Completed		
No. 13	Shoriammungalum Nullah at 8 M: 66 Chs: 75 Links						4.50 Feet Girders.
	Per Centage done		100	100	100		
	Date of Completion		Completed	Completed	Completed		
No. 14	Chittanur Bridge at 5 M: 9 Chs:						10.70 Feet Girders.
	Per Centage done		100	100	100		
	Date of Completion		Completed	Completed	Completed		
No. 14	Bridge at 2 M: 45 Chs: 469 Links						3.20 Feet Girders.
	Per Centage done		100	100	100		
	Date of Completion		Completed	Completed	Completed		
No. 14	Bridge at 13 M: 69 Chs: 466 Links						2.50 Feet Girders.
	Per Centage done		100	100	100		
	Date of Completion		Completed	Completed	Completed		

Chief Engineers Office
Trichinopoly 30th September 1875

Sd/- [illegible]
Ag: Chief Engr.

No. 52.

SOUTH INDIAN RAILWAY.

ENGINEERING DEPARTMENT.

Quarterly Progress Report of the Northern Extension from Madras to Mayaveram 217 Miles 0 Chains for the Quarter ending 30 September 1876.

No. of Statement	DETAILS.	Total Estimate. Indian Expenditures.	Total Estimate. Value of English Stores.	Actual Indian Expenditures. During Quarter.	Actual Indian Expenditures. Total from commencement to end of Quarter.	Numbers. Total.	Numbers. Furnished.	Numbers. In hand.	Quantities. Total as per Estimate.	Quantities. Executed during Quarter.	Quantities. Executed to end of Quarter.	Probable Date. Of completion.	Probable Date. By which Permanent way can be laid if urgently required.	REMARKS.
						Miles. Chains.	Miles. Chains.	Miles. Chains.	Cubic. Feet.	Cubic. Feet.	Cubic. Feet.			
	CONSTRUCTION OF LINE													
	Earthwork, Embankments, Cuttings, &c.					217. 0	209. 77	7. 3	122,733,603	7,767,623	108,599,069			
	Minor Bridges and Culverts					90	690	123	2,195,181	175,598	1,553,921			
	Large Bridges (as per Statement B.)					42	16	23	2,066,691	126,346	892,772			
	Fencing					217. 0	158. 59	58. 21	"	"	"			
	Other items					"	"	"	"	75,029.	217,412.			Platelayers huts & Gate Lodges Culverts under Level Crossings Compound walls &c
	BALLAST AND PERMANENT WAY						0							
	Ballast — Collected					"	"	"	"	"	"			
	Ballast — Spread					240. 37.	"	"	17,936,578	2,464,169.	10,150,542			
	Rails — Lifted					"	184. 25	"	"	"	"			Rails in Depot.
	Rails — Linked in					"	184. 25	"	"	"	"			at Perambore. 387
	Rails — In depôt					"	"	1860	"	"	"			" Trivalore. 59
	Wooden Sleepers — Lifted					"	184. 25	"	"	"	"			" Madanumgalam. 49
	Wooden Sleepers — Laid					"	184. 25	"	"	"	"			" Solamungalam. 2.
	Wooden Sleepers — In depôt					"	"	29373	"	"	"			" Madras 1363.
V.	STATIONS AND BUILDINGS, (as per Statement C.)													Total 1860
	(a) Platforms					61	19	18	"	"	"			Sleepers in Depot.
	(b) Passenger Buildings					80	24	22	"	"	"			At Madras. 110
	(c) Goods Sheds					18	4	7	"	"	"			" Trivalore. 50
	(d) Watering Arrangements					32	6	6	"	"	"			" Cuddalore 29213.
	(e) Staff Quarters, by rooms					460	60	46	"	"	"			Total 29373
	(f) Engine Sheds					4	"	2	"	"	"			
	(g) Small Items					"	b 6	c 7	"	"	"			
	Temporary Workshop					"	100%	"	"	"	"			
	Do Staff Quarters					"	91 Rooms	"	"	"	"			

Tindevanam to Cuddalore 1st January 1877.
Cuddalore to Mayaveram 1st January 1878
Mayaveram to Tanjore 1st January 1877

Chief Engineer's Office,
Trichinopoly
30 September 1876.

a. 2. over estimated last quarter.
b. 32 do do.
c. 13 do do.

William Betts.
Agent

Substitute
Dy Chief Engineer.

Form No. 52 B.

SOUTH INDIAN RAILWAY.

PROGRESS REPORT of Large Bridges in Northern Extension from Madras to Mangalore 217 Miles 0 Chains for Quarter ending 30th September 1870

Names of Bridges.	Foundations.	Abutments and Piers up to springing or Girder level.	Arching or erection of Girders.	Other Items.	REMARKS.
District No 1 Coum River Bridge at 2 M: 76 Chains					
Per Centage done	✓	✓	✓		5.140 Feet Girders.
Date of Completion	100	100	100	0	
No 1 Adyar River Bridge at 6 M: 50 Chs:	Completed.	Completed.	Completed.		
Per Centage done	✓	✓	✓		6.66 Feet Girders.
Date of Completion	100	100	100	0	
No 2 Poraparkum Bridge at ~~22~~ 21 M: ~~74~~ 75 Chs: ~~66~~ 64 Links	Completed.	Completed.	Completed.		
Per Centage done	✓	✓	✓		5.20 Feet Girders
Date of Completion	100	100	100	0	
No 3 Gudivancheri River Bridge at 23 M: ~~52~~ 51 Chs:	Completed.	Completed.	Completed.		
Per Centage done	✓	✓	✓		4.20 Feet Girders
Date of Completion	100	100	100	0	
No 3 Chingleput Tank Bridge at 33 M: ~~74~~ 73 Chs: ~~60~~ 2 Links	Completed.	Completed.	Completed.		
Per Centage done	✓	✓	✓		6.20 Feet Girders
Date of Completion	100	100	100	0	
No 4 Bridge at 42 M: 8 Chs: ~~66~~ Links	Completed.	Completed.	Completed.		
Per Centage done	✓	✓	✓		4.20 Feet Girders
Date of Completion	100	100	100	0	
No 4 Palar River Bridge at 42 M: 65 Chs: ~~44~~ Links	Completed.	Completed.	Completed.		
Per Centage done	(a) 95.	20.	0	0	18.120 Feet Girders. (a) 6% overestimated last quarter
Date of Completion					
No 4 Bridge at 46 M: 69 Chs:	✓	✓	✓		6.25 Feet Girders.
Per Centage done	100	100	100	0	
Date of Completion	Completed.	Completed.	Completed.		
~~Per Centage done 47 M: 30 Chs: 88 Links~~	✓	✓	✓		4.20 & 1.25 Feet Girders.
Date of Completion	100	100	100	0	
No 4 Nazianguli River Bridge at 49 M: ~~72~~ 71 Chs: 52	Completed.	Completed.	Completed.		
Per Centage done	✓	✓	✓		11.40 Feet Girders.
Date of Completion	100	100	100	0	
No 5 Bridge at 63 M: 58 Chs:	Completed.	Completed.	Completed.		
Per Centage done	✓	✓	✓		4.20 Feet Girders.
Date of Completion	100	100	100	0	
No 5 Bridge at 64 M: ~~44~~ 45 Chs:	Completed.	Completed.	Completed.		
Per Centage done	✓	✓	✓		3.25 Feet Girders.
Date of Completion	100	100	100	0	
	Completed.	Completed.	Completed.		