

(1) Number of pages _____

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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. 1990-91 Press
B.P. No. _____ Mis. _____

Dated 23-7-48 1954

Not to be folded or roughly handled.

*Proceedings of the Madras Government, Public Works Department,
23rd July 1874.*

No. 518. Read the following letter from Lieutenant-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, 15th June 1874, No. 352 :—

I HAVE the honor to enclose, herewith, for transmission to the Government of India, Statements A, B, C, and D showing the progress on works in connection with the Southern Extension of the Great Southern of India Railway during the quarter ended 31st March last, together with a brief descriptive report by the Chief Engineer of that Company.

From the Chief Engineer, to the Agent of the Great Southern of India Railway, dated Trichinopoly, 15th April 1874, No. 1,857.

I SEND, herewith, my report for the quarter ending 31st March last.

2. You will observe that the earth-work and masonry is gradually drawing to a close, and I expect that after the end of the current quarter there will remain very little to do in these items beyond training and turfing when the weather becomes favorable for these operations, and in finishing up copes and parapets of bridges and culverts.

3. The large bridges are well forward, and with the exception of two on District 10 and one on District 14 are all founded; of the two on District 10, one is the five 70 feet spans at 2 miles 23 chains in which one abutment and two piers still remains to be got in; and the bridge on District 14 is the one of ten 70 feet spans over the river Chittaur in which two piers are still to be founded.

4. The girders for bridges are being led to the respective sites, and I am preparing to send a gang along to revet up and fix the iron work of these structures.

5. The permanent-way material is being led on to the ground as quickly as we receive it from England, and the platelaying is being pushed as energetically as the means at our command admit.

6. The station works, gate lodges and platelayers' huts started generally all along and before the end of the current quarter will, I expect, be well in land.

A.
GREAT SOUTHERN OF INDIA RAILWAY.
ENGINEERING DEPARTMENT.

General Progress Report of Southern Extension from Trichinopoly to Tuticorin, 215 Miles 1 Chain, for the Quarter ending 31st March 1874.

*Proceedings of the Madras Government, Public Works Department,
23rd July 1874.*

Refer- ence to heads of Esti- mate.	Details.	TOTAL ESTIMATE.		ACTUAL INDIAN EXPENDITURE.		NUMBERS.		QUANTITIES.		PROBABLE DATE.	
		Indian Expendi- ture.	Value of English Stores.	During Quarter.	Total from com- mencement to end of Quarter.	Total.	Finished in hand.	Total as per Estimate.	Executed during Quarter.	Executed to end of Quarter.	Of completion. By which the Permanent-way could be laid if urgently required.
I.	Preliminary Expenses ...	...	...	...	...	...	...	...	...	...	...
II.	Land ...	...	...	...	...	...	...	...	...	...	...
III.	Construction of Line ...	...	...	...	...	...	...	...	...	...	...
	<i>Embarkments</i> ...	7,01,991	...	61,181	4,54,008	...	M. CHS. 201 0 15 1	Cubic feet. 107,584,624	...	Cubic feet. 100,027,709	...
	Minor Bridges and Culverts ...	5,63,654	1,02,960	47,690	8,09,980	No. 690	No. 339	1,239,643	...	1,181,165	June 1874...
	Large Bridges ...	4,08,319	3,90,903	30,223	1,84,700	31	M. CHS. 109 81	610,497	58,042	374,355	Aug. 1874...
	Fencing ...	1,40,000	...	7,064	11,875	215 1	...	...	...	...	...
	Other items ...	1,47,454	...	3,491	6,685	...	...	...	...	...	...
IV.	Tiering ...	...	...	...	...	...	...	...	...	...	...
	Ballast and Permanent-way ...	...	...	...	...	...	...	...	...	...	...
	Ballast ...	2,57,657	...	2,670	3,624	M. CHS. 215 1	M. CHS. 21 40	...	...	...	...
	Rails ...	5,33,738	133,77,890	8,763	84,815	7,434	No. 11,117	...	...	...	...
	Wooden Sleepers ...	...	...	...	...	...	No. 72,750	...	...	...	...
	Stations and Buildings (as per State- ment C) ...	7,50,437	1,50,203	...	...	...	...	...	...	...	...
V.	Platforms ...	5,71,482	1,50,203	7,235	18,450	...	...	...	...	...	...
	Passengers' Buildings ...	...	...	...	...	...	...	...	...	...	...
	Good-sheds ...	...	...	...	...	...	...	...	...	...	...
	Watering arrangements ...	...	...	...	...	...	...	...	...	...	...

*Proceedings of the Madras Government, Public Works Department,
23rd July 1874.*

a. Staff Quarters ...	1,78,055	...	...	...	...	...	...	...	...	...	...
f. Engine-sheds, Workshops, etc...	Included in estimate for a, b, c, d.	...	...	...	...	...	...	...	...	...	...
g. Small Items ...	12,000	...	...	...	...	...	...	...	...	...	...
VI. Telegraph ...	3,46,500	...	...	...	...	...	...	...	...	...	...
VII. Plant ...	3,16,850	7,66,450	1,938	...	...	...	...	...	...	...	...
VIII. Rolling stock (Statement D)	2,58,015	...	...	...	...	...	...	...	...	...	...
IX. Maintenance ...	9,87,000	...	...	...	...	...	...	...	...	...	...
X. Establishment ...	1,00,800	...	...	...	...	...	...	...	...	...	...
XI. Contingencies ...	...	...	...	...	...	...	...	...	...	...	...

* This date refers to completion to girder bed level.

† Rails in Depot—	...	No. 701
At Tuticorin ...	...	...
" Trichinopoly ...	...	446
...	...	...
...	...	1,147

‡ Sleepers in Depot—

At Trichinopoly ...	...	No. 14,915
" Tuticorin ...	...	8,729
...	...	...
...	...	18,644

§ Temporary erections.
|| Permanent do.

NEGAPATAM,
11th May 1874.

(Signed) J. SMITH,
Chief Auditor.

(Signed) S. M. JOHNSON.
Asst. Examiner of Railway Accts.

(Signed) W. S. BETTS,
Agent and Traffic Manager.

ENGINEERING DEPARTMENT.

B.—Progress Report of large Bridges in Southern Extension from Trichinopoly to Tuticorin, 215 Miles 1 Chain, for quarter ending 31st March 1874.

Proceedings of the Madras Government, Public Works Department,
23rd July 1874.

Names of Bridges.	Founda- tions.	Abutments and Piers up to springing or girder level.	Arching or erection of Girders.	Other items.	Remarks.
District No. 1—Corayaur Bridge at 3 miles 43 chains. Percentage done Date of completion	100 ...	95 ...	...	...	5-30 feet girders. } Date of completion depends upon date of arrival of girders. 4-20 feet girders.
Do. 1—Bridge at 4 miles 2 chains 61 links. Percentage done Date of completion	100 ...	95 ...	...	...	5-30 feet girders. } Date of completion depends upon date of arrival of girders. 4-20 feet girders.
Do. 2—Bridge at 9 miles 51 chains Percentage done Date of completion	100 ...	100 ...	...	85	3-20 feet girders. } Date of completion depends upon date of arrival of girders. 4-20 feet girders.
Do. 2—Bridge at 2 miles 41 chains Percentage done Date of completion	100 ...	95 ...	...	...	5-20 feet girders. } Date of completion depends upon date of arrival of girders. 4-20 feet girders.
Do. 3—Bridge at 1 mile 43 chains Percentage done Date of completion	100 ...	97 ...	...	...	1-70 foot girder. } Date of completion depends upon date of arrival of girders. 3-30 feet girders.
Do. 3—Bridge at 9 miles 40 chains Percentage done Date of completion	100 ...	84 ...	...	...	3-30 feet girders. } Date of completion depends upon date of arrival of girders. 2-30 feet girders.
Do. 3—Bridge at 14 miles 45 chains 89 links. Percentage done Date of completion	100 ...	85 ...	...	...	2-30 feet girders. } Date of completion depends upon date of arrival of girders. 6-30 feet arches.
Do. 4—Cullar Nullah at 5 miles 70½ chains. Percentage done Date of completion	100 ...	95 ...	...	...	6-30 feet arches.
Do. 4—Mooloopady river at 8 miles 42 chains. 70 links. Percentage done Date of completion	100 ...	95 ...	...	...	6-30 feet arches.
Do. 5—Anavoorlothan Nullah at 3 miles 8 chains 96 links. Percentage done Date of completion	100 ...	95 ...	...	...	6-30 feet arches.

Proceedings of the Madras Government, Public Works Department,
23rd July 1874.

Names of Bridges.	Founda- tions.	Abutments and Piers up to springing or girder level.	Arching or erection of Girders.	Other items.	Remarks.
Do. 7—Vyagay Bridge at 5 miles 13 chains. Percentage done Date of completion	100 ...	100 ...	100	...	Completed with the exception of some of the coping. 15-70 feet girders.
Do. 8—Goondar Bridge at 5 miles 51 chains 50 links Percentage done Date of completion	100 ...	100 ...	...	...	7-30 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 8—Shivicotay Bridge at 10 miles 40 chains 49 links Percentage done Date of completion	100 ...	64 June 1874	...	...	6-30 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 8—Bridge at 14 miles 10 chains 80 links Percentage done Date of completion	100 ...	50 ...	...	...	2-30 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 9—Viruputty River at 7 miles 31 chains 58 links Percentage done Date of completion	100 ...	95 ...	...	...	9-30 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 9—Kalingapoor at 13 miles 72 chains ... Percentage done Date of completion	100 ...	90 ...	...	...	4-20 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 9—Vuchacarpatty at 14 miles 2 chains. Percentage done Date of completion	100 ...	90 ...	...	...	3-20 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 10—Bridge at 6 miles 35 chains 46 links. Percentage done Date of completion	100 ...	17 May 1874	...	...	5-50 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 10—Bridge at 2 miles 23 chains Percentage done Date of completion	50 May 1874	17 July 1874	...	...	5-70 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 10—Bridge at 8 miles 31 chains 14 links Percentage done Date of completion	62 June 1874	...	...	...	12-70 feet girders. } Date of completion depends upon date of arrival of girders.
Do. 10—Bridge at 8 miles 64 chains Percentage done Date of completion	100 ...	...	...	...	1-70 foot girder. } Date of completion depends upon date of arrival of girders.

Progress Report of large Bridges in Southern Extension from Trichinopoly to Tuticorin, etc. (Concluded.)

Names of Bridges.		Founda- tions.	Abutments and Piers up to springing or girder level.	Arching or direction of Girders.	Other items.	Remarks.
District No. 10.—	Bridge at 12 miles 35 chains 52 links.	100	100			3-20 feet girders.
	Percentage done	100				Date of completion depends upon date of arrival of girders.
Do. 11.—	Nelli Bridge at 0 miles 73 chains 25 links					
	Percentage done	100	90			4-30 feet girders.
Do. 12.—	Bridge at 2 miles 2 chains 37 links	100	100			Date of completion depends upon date of arrival of girders.
	Percentage done	100	100			3-20 feet girders.
Do. 12.—	Bridge at 3 miles 27 chains 15 links	100	100			Date of completion depends upon date of arrival of girders.
	Percentage done	100				3-20 feet girders.
Do. 13.—	Kurtapillee Nuttum Nullah at 2 miles 45 chains 78 links	100	95			Date of completion depends upon date of arrival of girders.
	Percentage done	100				3-50 feet girders.
Do. 13.—	Shonamungalum Nullah at 3 miles 66 chains 75 links	100	100			Date of completion depends upon date of arrival of girders.
	Percentage done	100	100			4-50 feet girders.
Do. 14.—	Bridge at 2 miles 45 chains 69 links	100	100			Date of completion depends upon date of arrival of girders.
	Percentage done	100				3-20 feet girders.
Do. 14.—	Chittaur Bridge at 5 miles 9 chains	82				Date of completion depends upon date of arrival of girders.
	Percentage done		30th June 1874.			10-70 feet girders.
Do. 14.—	Bridge at 13 miles 69 chains 66 links	100	83			
	Percentage done	100				2-30 feet girders.
	Date of completion		30th April 1874.			Date of completion depends upon date of arrival of girders.

TRICHINOPOLY,
14th April 1874.

(Signed) W. S. BETTS,
Agent.

(Signed) D. LOGAN,
Chief Engineer.

C.—Progress Report of Stations of the Southern Extension from Trichinopoly to Tuticorin, 215 miles 1 chain, for quarter ending 31st March 1874.

ENGINEERING DEPARTMENT.

Names of Stations.		a. Platforms.	b. Passengers' Buildings.	c. Goods Sheds.	d. Watering arrangements.	e. Staff Quarters (by rooms.)	f. Engine Sheds.	g. Small Items.	Remarks.
District No. 1.—	Trichinopoly Station—	90	30		20		Excavation commenced.	10	
	Percentage done								
Do. 1.—	Collathoor Station—	90	50		20			10	
	Percentage done		30th May 1874.						
Do. 2.—	Manapara Station—	25	10	10					
	Percentage done								
Do. 4.—	Dindigul Station—	96	45						
	Percentage done	30th April 1874.	30th June 1874.						
Do. 5.—	Ammanarkayoor Station—	75							
	Percentage done	15th April 1874.							
Do. 7.—	Madura Station—								
	Percentage done								
Do. 7.—	Tripunavandam Station—								
	Percentage done								
Do. 13.—	Tuticorin Station—								
	Percentage done								
Do. 6.—	Sholavandam Station—	62							
	Percentage done								
	Date of completion								

TRICHINOPOLY,
14th April 1874.

(Signed) W. S. BETTS,
Agent.

(Signed) D. LOGAN,
Chief Engineer.

*Proceedings of the Madras Government, Public Works Department,
23rd July 1874.*

D.

*General Progress Report of Work in Erecting and Building Locomotive and Rolling
Stock for quarter ending 31st March 1874.*

	Number sanctioned.	Number erected up to	NUMBER ERRECTED 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.					
Locomotive Engines and Tenders ...	30	}							
Composite Carriages.	8								
2nd Class do. ...	...								
3rd do. do. ...	50								
Passengers Brake Vans ...	12								
Horse Boxes ...	6								
Carriage Trucks ...	2								
Goods Brake Vans ...	6								
Covered Goods Wagons ...	150								
Ballast Wagons ...	50								
Open Goods do. ...	...								
Timber Trucks ...	9								
Gunpowder Vans ...	1								
Salt Trucks... ..	40								
High Sided open Trucks ...	100								
Sets of Iron work (Carriages) ...	...								
Do. (Wagons) ...	...								
Cotton Trucks ...	100								
Five-ton travelling Crane ...	1								

NEGAPATAM,
13th May 1874.

(Signed) W. S. BETTS,
Agent.

No. 519.

ORDER THEREON, 23rd July 1874, No. 1,990.

RAILWAY, No. 57.

His Excellency the Governor in Council observes that unexplained delay appears to have taken place in the submission to Government of the Progress Reports of the Southern Extension for the quarter ending 31st March 1874.

2. Parts B and C, prepared by the Chief Engineer, appear to have been promptly submitted on the 15th April, but A and D seem to have been delayed till the 11th and 13th May respectively, though the latter is little more than a blank

*Proceedings of the Madras Government, Public Works Department,
23rd July 1874.*

Return. The statements did not, however, leave the Consulting Engineer's office till the 15th June.

3. The statements will be forwarded to the Government of India.

(True Extract.)

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

No. 520.

(DOCKET No. 1,991, dated 23rd July 1874.)

Copy of the above forwarded to the Government of India.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

Exd. T. O'Connor.

13
 C.A. No 365^x sent to Press on
 the 1st July 1874 - proof sent up
 on the 22 July 1874 - numbered
 and printed on the 23 July.

x Delay in printing brought
 to the notice of the Chief Asst &
 Registrar on the 22 July 1874.
 R

Railway Department.

CONSULTING ENGINEER'S OFFICE.

No. 352.

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,

I have the honour to
enclose herewith, for transmission to
the Government of India, statements
A, B, C, and D showing the progress
of works in connection with the
southern extension of the Great
Southern of India Railway during the
quarter ended 31st March last, together
with a brief descriptive report by the
Chief Engineer of that Company.

I have the honour to be
^{Sir}
your most obedient servant
W. M. M. M. M.

Consulting Engineer for Ry

Madras
15th June 1874
R. B. B.

Great Southern of India Railway

Letter from Chief Engineer to Agent
dated Trichinopoly 15th April 1874. to 1857.

I send herewith my report for the quarter
ending 31st March last.

You will observe that the earthwork and
Masonry is gradually drawing to a close and I expect
that after the end of the current quarter there will remain
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when the weather becomes favorable for these operations
and in finishing up cohes & parapets of bridges and culverts.

The large bridges are well forward and with the
exception of two on District 10 and one on District 14 are
all founded. Of the two on District 10, one is the 5.70 feet
span at 2 miles 23 chains in which one abutment and
two piers still remains to be got in; and the bridge on
District 14 is the one of 10.70 feet span over the river Shitala
in which 2 piers are still to be founded.

The girders for bridges are being led to the
respective sites and I am preparing to send a gang
along to erect up and fix the iron work of these structures.

The Permanent way material is being led
on to the ground as quickly as we receive it from Eng-
land and the platelaying is being pushed as energetically
as the means at our command admit.

The station works, gate lodges and plate-
layers huts started generally all along and before
the end of the current quarter will I expect be well under
way.

I am Sir,

Wm. Callaghan
Chief Clerk

P. W. 1874. 25/4
S. W. 1874. 25/4
RAILWAY DEPARTMENT.

No. 3657

The Consulting Engineer
for Railways,

To

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

Dated 15th June 1874.
Recd. 16th June 1874.

No. 352.

Forwarded to

the S. D. 6. 18

showing the progress

on works in connection

with the Southern Co.

of the G. S. & R. during

the quarter ended 31st

March 1874.

G. D. No. 1990. 23-7-74.

Page 6 of 11

1874

Public Works
 Proceedings of the ^{Board} ^{Members}
 Read the ^{minutes} ^{of} ^{the} ^{meeting}
 Show the ^{County} ^{Engine}
 for Railway (H & Co. 10-38 2-10-1874)
 15 June 1874

1990.

His Excellency the
 Governor in Council
 observed that ^{unexplained} ^{delays}
 a delay appears
 when taken place
 in the submission
 of the Progress
 Reports of the Southern
 Extension for the
 quarter ending 31st
 March 1874.

Part B & C pre-
 pared by the Chief

40-21990-1991-23-7
 M 2657/94
 16, 23 July 1874
 1874

11/11/1874

papers appear to have
been promptly sub-
mitted on the 15th April
but A & D seem to have
been delayed till
the 11th and 13th June
respectively, though
the latter is little
more than a blank
return. The state-
-ments did not how-
-ever leave the
Consulting Engineer's
Office till the 15th
June. [His Excellency
in Council to note
that some better
arrangements will
in future be made
for ensuring sub-
mission of

Documents - the
return will
be supplied from
the papers of
the person to whom

- mission of all
papers within a
reasonable time
after they fall due.

The statements will
be forwarded to the
Govt of India.

30
To, Consulting Engineer H. E. Secy 1991. 7
for Railways
S. Copies despatched 31/7/74.

Copy of the above
forwarded to the
Govt of India.

C. W. W.

30 S. Copies despatched 31/7/74.

518-520

6/74
Cir 23/6/74 Rth 24/6/74

3657

Govt. of 1874 Madras.

PUBLIC WORKS.

To

*Mr. Cunningham
Secy. of India*

Recd.

Encl. 5-

G. O. 23rd July 1874, No.

1996
1991

Nos 518-520/1

Secy. of India Ry

Noting the delay
in the submission of the
Congress Reports of the Secy
of India Ry for the Session
of March 1874, and for
forwarding the statements to
the Secy of India