M.R.O. 1—77,006—8-6-37.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 449, 12-0. 121	2872-73	Press / Mis.
Dated	6-12-1872.	

Not to be folded or roughly handled

No. 119. Read the following letter from the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 14th November 1872, No. 619:—

I HAVE the honour to submit the Chief Engineer's report for the quarter ending 30th September 1872 upon the progress of the works on the Southern Extension of the Great Southern of India Railway. The report is accompanied by a short letter* addressed by Mr. Logan to the Agent.

* No. 3,478, dated 8th October 1872.

2. I inspected the line of the extension during last month, and found the works in fair progress in Districts I. to VIII. between Trichinopoly and Teroomungalum. Along this part of the line the earthwork is well advanced. As a general rule it has been given on contract along with the masonry of each district, the rate for the earthwork being everywhere 2 Annas per cubic yard. The rate for masonry ranges from Rupees 8 to Rupees 9 per cubic yard. Of the large bridges, the one over the Corayaur river, 3½ miles from Trichinopoly, is the only one which has been begun. It is to consist of five 30 feet girder spans, and at the time of my visit the south abutment and two piers were nearly completed. Some difficulty had been experienced in getting down to the foundations, and a large steam pump had been brought from Negapatam for that purpose. Of the smaller masonry works a few are finished, and many are in progress; the collection of stone being pushed on as fast as possible. The quality of the masonry is in general very good.

3. From Teroomungalum southwards along Districts IX. to XIV., there had not been much progress made at the time of my visit. In many places the land had been only recently handed over by the Revenue Authorities, and beyond some earthwork and the collection of material nothing had been done. In Districts XI. to XIV. considerable difficulty has been experienced in procuring good stone, and it is probable that the rate for masonry will be higher than on the northern part of the line. This is especially the case in the neighbourhood of Tuticorin, and in order to secure good masonry it will probably be necessary to give from Rupees 12 to Rupees 15 per cubic yard.

4. District VII. which includes the Madura station and the bridge over the Vigay river is the only one in which the work is being carried on departmentally; in all the other districts the masonry and earthwork are done by contract. In District VII. the stone is brought from Skandamullay, a hill some five miles south of Madura. The masonry which has been executed in this district is of good quality, and has cost about Rupees 9 per cubic yard.

5. None of the station buildings have yet been commenced. The station grounds have been well chosen.

6. The temporary line of telegraph, the erection of which was sanctioned on the 9th September 1872,† is being pushed on as fast as possible. At the time of my inspection the wire was in working order at Culputty, thirty-nine miles from Trichinopoly.

† *Vide* G. O. No. 2,141.

From the Chief Engineer, to the Agent of the Great Southern of India Railway, dated 8th October 1872, No. 3,478.

HEREWITH I have the pleasure to send you my report for the quarter ending 30th ultimo.

2. *Construction* has been commenced on twelve districts out of the fourteen.

3. In *earthwork* about one-fourth of the estimated quantity for the entire line has been thrown up; we still await possession of land over the greater part of the Tinnevelly District, and I trust that something will be done to remedy this soon, or we shall be getting far behind with the work there.

4. In *masonry* the work of collection of material is going on as quickly as possible in all the districts. Considerable difficulty is met with, owing to the utter absence, in most parts of the line, of skilled labour which has to be imported, and it will be a work of time and patience to get the masonry done at reasonable rates.

5. More work than appears in the progress report has really been done; as, for instance, in the quarrying of stone by contract, only the stone delivered on the line is returned in the report.

6. The Engineers' temporary bungalows have been finished on Districts I to VII. and the remainder are in various stages of progress.

7. In the end of August I received sanction to start a temporary line of telegraph. The wire is now distributed along the line and the poles have been supplied as far as Madura. The first office, about seven and a half miles out of Trichinopoly, was opened on the 27th ultimo: the second, at Manaparay (twenty-four miles from Trichinopoly) will be open in two or three days, and I expect to open to Madura some time next month, if all goes well.

SOUTHERN EXTENSION.

General Progress Report for the quarter ending 30th September 1872.

Reference to heads of Estimate.		Total of sanctioned Estimate.		Actual Indian Expenditure.		Numbers.			Quantities.			Probable date		Remarks.
		Indian Expenditure.	English Expenditure.	During quarter.	Total up to end of quarter.	Total.	Finished	In hand.	Total as per Estimate.	Executed during quarter.	Executed end of quarter.	Of completion.	By which the Permanent-way could be laid if urgently required.	
		Rs.		Rs.	Rs.									
I.	Preliminary Expenses	2,46,500		...	2,22,564	...	...	...	...	...	...	...	.....	
II.	Land	...		...	...	...	...	...	...	...	...	...	.....	
III.	Construction of Line	22,50,000		66,184	78,546	...	...	...	...	...	...	...	.....	
	Earthwork. Cuttings and Embankments	...		54,288	59,191	Miles. ...	Miles. ...	Miles. ...	Cubic feet. ...	Cubic feet. ...	Cubic feet. 25,185,481	June 1873.	.....	6,047 Yards of stone delivered on the line. Amount disbursed on account of same Rupees 10,058-3-8.
	Earthwork. Rock Cuttings ...	...		...	...	215	29·83	21·13	100,145,565	19,171,305			.....	
	Small Bridges and Culverts ...	...		10,535	17,275	No. 503	No. 21	No. 31	...	...	...	...	.....	
	Large Bridges (as per Statement B).	...		1,337	2,056	30	...	1	...	...	...	June 1874.	.....	
	Fencing	...		21	21	Ms. 430	Ms. 44	...	...	...	...	Do.	.....	
	Other items... ...	...		3	3	...	...	...	...	...	...	...	.....	
IV.	Ballast and Permanent-way ...	33,25,000		...	...	...	...	...	...	...	...	...	.....	
	Ballast ... Collected ...	...		...	...	...	...	...	...	...	...	...	.....	
	Ballast ... Spread ...													
	Rails ... Lifted ...													
	Rails ... Linked in ...													
	Rails ... In Depôt ...													
	Sleepers ... Lifted ... Iron ...													
	Sleepers ... Lifted ... Wood ...													
	Sleepers ... Laid ... Iron ...													
	Sleepers ... Laid ... Wood ...													
	Sleepers ... In Depôt ... Iron ...													
	Sleepers ... In Depôt ... Wood ...													
V.	Stations and Buildings (Statement C)	8,63,000		8,300	21,902	...	...	...	...	...	...	...	.....	*a.* Temporary workshops. Three-fourths of the workshops sanctioned have been built. The remainder willbe taken in hand as required. *b.* Wire distributed for 100 miles, and posts almost ready for this length. *d.* Subject to adjustment with regard to direction. *e.* Do. do.
	a. Platform	...												
	b. Passengers' Buildings ...	...												
	c. Goods shed	...		44	5,613	...	...	...	...	...	...	...	.....	
	d. Watering arrangements ...	...				Rooms.	Rooms.	Rooms.						
	e. Staff quarters	...		7,554	12,630	178	90	39	...	...	...	...	.....	
	f. Engine sheds, etc. ...	...		*a* 702	3,659	...	...	...	...	...	...	...	.....	
	g. Small items	...		...	...	...	...	...	...	...	...	...	.....	
VI.	Telegraph Indian Expenditure ...	12,000		*b* 239	239	Ms. 215	Ms. 8·25	M.206·75	...	...	...	...	.....	
VII.	Plant	3,56,500		235	393	...	...	...	...	...	...	Mar. 1873.	.....	
VIII.	Rolling Stock (Statement D). ...	10,82,800		...	...	...	...	...	...	...	...	...	.....	
IX.	Maintenance	3,88,400		...	...	...	...	...	...	...	...	...	.....	
X.	Establishment	9,87,000		*d* 59,710	83,952	...	...	...	...	...	...	...	.....	
XI.	Contingencies	1,00,800		*e* 436	1,105	...	...	...	...	...	...	...	.....	

NEGAPATAM,
30*th October* 1872.

(Signed) J. SMITH,
Chief Auditor.

(Signed) S. M. JOHNSON,
Assistant Examiner.

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

Progress Report of large Bridges from O. M. to 215 miles, for quarter ending 30th September 1872.

—	Formation.	Abutments and Piers to Girder level.	Erection of Girders.	Other Items.	Remarks.
Coryaur Bridge at 3 miles 43 chains.					
Percentage done	39	26	...	...	Five spans of 30 feet.
Probable date of completion.	30th June 1873.	30th September 1873.	30th October 1873.	...	... .

Progress Report of Stations from O. M. to 215 miles, for quarter ending 30th September 1872.

—	*a.*	*b.*	*c.*	*d.*	*e.* Staff Quarters by rooms.	*f.*	*g.* Temporary Workshops.
Trichinopoly.							
Percentage done	...	...	...	...	...	...	-
Staff Quarters, temporary, percentage done	...	...	...	...	59	...	*75
Probable date of completion ...	...	...	...	...	April 1873.	...	...

* Being extended as required.

TRICHINOPOLY,
8th October 1872.

(Signed) D. LOGAN,
Chief Engineer.
(,,) W. S. BETTS,
Agent and Traffic Manager.

General Progress Report of work in Erecting and Building Locomotive and Rolling Stock for quarter ending 30th September 1872.

NEGAPATAM,
28th October 1872.

Nil.

(Signed) E. G. SHEWARD,
Locomotive and Carriage Superintendent.
(Signed) W. S. BETTS,
Agent.

No. 120. ORDER THEREON, 6th December 1872, No. 2,872.

RAILWAY, No. 27.

ORDERED that this progress report and the explanatory letters by which it is accompanied be forwarded to the Government of India.

(Here enter No. 2,873, dated 6th December 1872.)

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Consulting Engineer for Railways.

Exd. E. C. Shunker.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, *6th December* 1872.

No. 121.

No. 2.873.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

RAILWAY, No. 28.

SIR,—In continuation of my letter No. 2,570, dated 1st November 1872, I am directed to forward herewith reports of the progress of the works on the Southern Extension of the Great Southern of India Railway for the quarter ending 30th September 1872. The line was inspected by the Consulting Engineer during the month of October, and in the accompanying letter* Lieutenant-Colonel Shaw-Stewart submits his observations on the works, which appear to be proceeding in a generally satisfactory manner.

* No. 619, dated 14th November 1872.

I have the honour to be,
Sir,
Your most obedient servant,

Colonel, R.E.,
Secretary to Government.

Exd. E. C. Shunker.

Railway Department.

CONSULTING ENGINEER'S OFFICE,

No. 619.

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 submit the Chief Engineer's Report, for the quarter ending 30th September 1872, upon the progress of the works on the Southern extension of the Great Southern of India Railway.

The Report is accompanied by a short letter addressed by Mr Logan to the Agent.

2 I enclosed the Line of

No 3478 dated 8th October 1872.

of the extension during last month, and found the work in fair progress in district I to VIII, between Trichinopoly and Devanungalum. Along that part of the line the earthwork is well advanced.

As a general rule it has been given on contract along with the masonry of each district, the rate for the earthwork being averaged here 9 annas per cubic yard. The rate for masonry ranges from Rs: 8 to Rs: 9 per cubic yard. Of the large bridges, the one over the Coleroon River, 3/4 miles from Trichinopoly is the only one which has been

begun. It is to consist of five 30 feet girder spans, and will be time of my visit, the abutments and two piers were nearly completed. Some difficulty had been experienced in getting down to the foundations, and a large steam pump had been brought for the purpose. Of the smaller masonry works a few are finished, and many are in progress, the collection of stone being pushed on as fast as possible. The quality of the masonry is in general very good.

3 From Devanungalum southwards, along district IX to XIV, there had not been

much

made becoz so made at the time of my visit. In many places the land had been only recently handed over by the Revenue Authorities, and beyond mere earthwork and the collection of material nothing had been done. In distts XI to XIV considerable difficulty has been experienced in procuring good stone, and it is probable that the rate for masonry will be higher than in the northern part of the line. This is especially the case in the neighbourhood of Dutteerin, and in order to secure good masonry it will probably be necessary to give from Rs: 12 to Rs: 15 per cubic yard.

4 Distt VII which includes the Madura station and the bridge over the Vigay River, is the only one in which the work is being carried on departmentally: in all the other districts the masonry and earthwork are done by contract. In distt VII the stone is brought from Kandanellay, a hill some nine miles south of Madura. The masonry which has been executed in this district is of good quality, and has cost about Rs: 9 per cubic yard.

5 None of the station buildings have yet been commenced. The station grounds have been well laid out.

6 The temporary Civil

P. W. 1872 1 Report
P to: of Goods for December

RAILWAY DEPARTMENT.

1872
From No. 5620.

The Consulting Engineer
for Railways,

To

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

Dated 14th November 1872.
Recd. 15th

Encl. 4. ✓

No. 619.

Submitting
Chief Engineer's report
for quarter ending 30th
September 1872 on
progress of works on
execution of the
G. I. P. Ry and furnishing
a report upon this
Case
No. 2872-2873 - 5th Dec/72.

I have the honor to acknowledge the receipt of your letter No. 2141 dated 6th instant, forwarding the Chief Engineer's report on the progress of the Great Indian Peninsula Railway during the quarter ending 30th September 1872.

2. In reply I am directed to state that the report is satisfactory.

3. I am also to request that you will submit a statement showing the number of miles of the Great Indian Peninsula Railway opened for traffic.

I have &c.
(Signed) J. Adam for Secretary to Government.

Fort St. George
14th November 1872.

No. 619

Copy forwarded for information to the Chief Engineer, Great Indian Peninsula Railway.

(Signed) W. Huddleston
Secretary to Government.

Fort St. George
20th Nov. 1872.

Great Southern of India Railway

Progress Report of Large Bridges from 0 Mls to 215 Miles for Quarter ending 30th September 1872

	Formation	Abuts & Piers to Girder level	Erection of Girders	Other Items	Remarks
Coorayaur Bridge at 3 Mls 4 Chs					
Percentage done	39	26	0	—	5 Spans of 30 Feet
Date of Completion	30th June 1873	30th Sept 1873	October 1873	—	

Chief Engineers Office
Trichinopoly 8th October 72

Signed / D Logan
Chief Engineer

Countersigned
Agent and Traffic Manager

P. W. 561/72.
Secd. C.E. 3/72 2. [illegible]

Great Southern of India Railway

Copy of letter from the Chief Engineer to the Agent, No. 3478. dated 8th October 1872.

Herewith I have the pleasure to send you my report for the Quarter ending 30th ultimo

Construction has been commenced on 12 Districts out of the 14.

In **Earthwork**, about ¼ of the estimated quantity for the entire line has been thrown up. We still await possession of land over the greater part of the Dimmerelly District and I trust that something will be done, to remedy this soon, or we shall be getting far behind with the work there

In **Masonry**, the work of collection of material is going on as quickly as possible in all the Districts. Considerable difficulty is met with, owing to the utter absence in most parts of the line, of skilled labor which has to be imported: and it will be a work of time and patience, to get the masonry done at reasonable rates.

Here work, than appears in the progress report, has really been done, as for instance

instance, in the quarrying of stone by contract; only the stone delivered on the line is returned in the report.

The Engineers temporary Bungalows have been finished on District 15 and the remainder are in various stages of progress

In the end of August, I received sanction to start a temporary line of Telegraph. The wire is now distributed along the line and the poles have been supplied, as far as Madeira. The first office, about 7½ miles out of Teichmiopoly was opened on the 27th ultimo; the second at Manapparay (24 miles from Teichmiopoly) will be open in two or three days - and I expect to open to Madeira some time next month, if all goes well.

True copy.
Leo. O. Kolmeman
A.A. Clerk

I.S.R. 5620/72.
Engg. Deptt. Letter

Public Works Department

No. 2852.

25

Proceedings of the Madras Government

Read the following

From The Consulting Engineer for Railways. } H. E. No. 619 of 14th Nov 1872

Ordered that this Progress Report and the explanatory letters by which it is accompanied be forwarded to the Government of India.

To
The Consulting Engineer
for Railways
Dept. 7/12/72

No. 2873.

To
The Secretary to the
Government of India
P.W.D.

Sir,

I am continuation of
my

my letter No 2570 dated 1st November 1872. I am directed to forward herewith reports of the progress of the works on the Southern Extension of the Great Southern of India Railway for the quarter ending 30th September 1872. The line was inspected by the Consulting Engineer during the month of October, and in the accompanying letter Lieutenant Colonel Shaw Stewart submits his observations on the works, which appear to be proceeding in a generally satisfactory manner.

I.S.
G.W.

No 619 of 14th November 1872.

Desp 7/12/72 Letter 35 Public Dept of Govt 28/12/72

6 20 Rosser

letter No. 2570 dated

No. 5620

Govt. of [1872] Madras.

PUBLIC WORKS.

To The Consulting Engr for Railways and To the Secretary to the Govt of India

Dated

Recd. Encl. 4-V

G. O. 6th Decr 1872 2872-2873.

Nos. 119-120 121

Southern Extension of the G. S of I. Railway Co.

Resp reports, transmitted by the Engrs., of the works on the Southern Extension for the quarter ending 30th September 1872 with, ordered to be forwarded to the Govt of India.

Forwarding Respy reports of the works on the Southern Extension of the G S of I Ry for the Quarter ending 30th Sept. 1872.