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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.

805-806 (4)

Press

Mis.

Dated

8-3-

1877.

Not to be folded or roughly handled

c. 203. Read the following endorsement of the Consulting Engineer for Railways, dated Madras, 28th February 1877, No. 134 :—

A.
ORIGINAL ESTIMATE.
SOUTH INDIAN RAILWAY.

ENGINEERING DEPARTMENT.

Southern Extension—Madura, Tuticorin, and Tinnevely Section.
Statement showing the Sanctioned Works remaining to be completed on the 1st January 1877.

Description of Works.	SANCTIONED.			AMOUNT EXPENDED UP TO 31st DECEMBER 1876.			REQUIRED.	
	Cash.	Rs.	A. P.	Cash.	Rs.	A. P.	Cash.	Rs.
<i>District No. 7.</i>								
Stations and Buildings—								
1. Station and Offices, Tirupuramundram	5,524	3	11	1,568	12	9	3,000	...
2. Workshops and Store Buildings, do.	3,812	8	0	3,172	13	6	...	...
3. Staff Quarters do.	863	5	11	66	12	0	600	...
4. Station Machinery do.	1,110	14	5	...	...	...	...	750
Total	10,000	1	10	4,806	6	3	3,600	750
<i>District No. 8.</i>								
Construction of Line—								
1. Earthwork	42,342	4	0	38,784	1	1	...	...
2. Bridgework	25,026	0	0	20,551	8	6	1,000	...
3. Minor Bridges and Culverts	43,632	15	10	21,039	15	6	1,500	...
4. Large Bridges	7,921	15	10	2,507	9	7	4,500	...
5. Level Crossings	9,000	0	0	6,070	11	2	2,900	...
IV.—Ballast and Permanent-way—								
1. Ballasting	16,870	14	0	19,700	4	10	...	...
2. Permanent-way	54,137	1	7	13,702	11	7	...	...
V.—Stations and Buildings—								
1. Station and Offices, Tirumangulam	5,695	15	11	3,279	11	6	1,000	...
2. Workshop and Store Buildings, do.	...	...	...	...	...	...	...	...

*Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 806.*

continued on the 1st January 1877 — (Continued).

[illegible][illegible]

ENGINEERING DEPARTMENT.
Southern Extension, Madura, Tuticorin and Tinnevely Section.
General Summary of Estimate of the Sanctioned Works remaining to be completed on the 1st January 1877.

Particulars.	SANCTIONED.			AMOUNT EXPENDED UP TO 31st DEC. 1876.			REQUIRED.		
	To be expended Departmentally.			To be drawn from Stores.			To be expended Departmentally.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
III. Construction of Line—									
1—Earthwork ...	2,88,185	1	11	...	...	...	...	...	...
2—Bridgework ...	2,46,030	13	2	57,329	5	5	6,000	0	0
1—Minor Bridges and Culverts ...	3,20,838	4	7	2,60,913	7	2	10,252	0	0
2—Large Bridges ...	72,331	10	2	...	...	...	39,700	0	0
4—Level Crossings ...	69,000	0	0	...	...	...	32,800	0	0
5—Fencing ...	...	...	...	...	...	...	...	...	...
IV. Ballast and Permanent-way—	9,95,885	13	10	3,18,242	12	7	88,782	0	0
1—Ballasting ...	1,30,674	1	2	...	...	...	...	...	...
2—Permanent-way ...	2,44,265	14	7	17,23,266	4	3	...	...	...
V. Stations and Buildings—	3,74,939	15	9	17,29,266	4	3	...	...	...
1—Stations and Offices ...	1,90,813	4	2	784	9	10	36,300	0	0
2—Workshops and Store Buildings ...	65,720	14	1	16,089	6	2	21,500	0	0
3—Staff Quarters ...	88,091	14	10	...	...	...	45,400	0	0
4—Station Machinery ...	41,958	4	5	42,733	15	0	1,910	0	0
VII. Plant—	3,80,614	5	6	59,607	15	0	1,05,140	0	0
1—Engineering ...	67,485	0	0	...	...	...	150	0	0
4—Station and Office Furniture ...	41,890	0	0	52,219	0	0	150	0	0
	1,09,375	0	0	20,977	0	0	300	0	0
				73,196	0	0			

IX. Maintenance...	...	...	1,33,035	0	0	...	...	83,821	3	5	1,986	7	7	67,800	0	0	...		
X. Establishment—	...	...	3,79,416	0	0	...	...	4,69,918	10	6	...	...	...	42,100	0	0	...		
2—Engineering	...	...																	
XI. Contingencies—	...	...	35,507	0	0	11,070	0	9,178	12	6	15,244	8	7	2,700	0	0	10,000	0	0
2—Engineering	...	...																	
Total ...			24,14,773	3	1	21,91,382	15	17,16,229	11	7	21,73,317	1	8	3,06,822	0	0	56,550	0	0

(Signed) W. S. BETTS,
Agent.

(Signed) R. CUNNINGHAM,
Acting Chief Engineer.

TRICHINOPOLY,
19th February 1877.

Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 806.

C.
ENGINEERING DEPARTMENT.

Northern Extension—Madura, Tuticorin and Tinnerelly Section.
Statement of Unsanctioned Works necessary to complete the Line.

Description of Works.	AMOUNT.		Total.	
	Cash.	Stores.		
<i>Tiruparangundram Station.</i>	RS. A. P.	RS.	RS. A. P.	
C class waiting shed ..	443 0 0	429	872 0 0	Estimate sent to Agent with letter No. 10,899 of 6th December 1876.
Roof over dry-earth bins for 3rd-class urinal.	6 0 0	22	28 0 0	
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
Total ..	6,507 0 0	3,100	9,607 0 0	
<i>Tirumangalam Station.</i>	RS. A. P.	RS.	RS. A. P.	
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul. Estimate sent to Agent with letter No. 10,899 of 6th Dec. 1876.
A class waiting shed ..	939 0 0	907	1,846 0 0	
Roof over dry-earth bins for 3rd-class urinal.	6 0 0	22	28 0 0	
Total ..	7,003 0 0	3,578	10,581 0 0	
<i>Kullygoody Station.</i>				
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
Ticket Office ..	1,073 0 0	..	1,073 0 0	
Latrine ..	487 0 0	..	487 0 0	No estimate submitted. Same as sanctioned for Kolattur.
Platform ..	925 0 0	..	925 0 0	
Loading bank and godown	1,527 0 0	..	1,527 0 0	
Approaches ..	1,424 0 0	..	1,424 0 0	
Station-master's bungalow	1,000 0 0	..	1,000 0 0	
Semaphore signals ..	269 0 0	399	668 0 0	
Switches and crossings ..	98 0 0	712	810 0 0	
Total ..	12,861 0 0	3,760	16,621 0 0	
<i>Thoslookapatti Station.</i>				
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
Ticket Office ..	1,073 0 0	..	1,073 0 0	
Latrine ..	487 0 0	..	487 0 0	No estimate submitted. Same as sanctioned for Kolattur.
Platform ..	925 0 0	..	925 0 0	
Loading bank and godown	1,527 0 0	..	1,527 0 0	
Approaches ..	1,424 0 0	..	1,424 0 0	
Station-master's bungalow	1,000 0 0	..	1,000 0 0	
Semaphore signals ..	269 0 0	399	668 0 0	
Switches and crossings ..	98 0 0	712	810 0 0	
Total ..	12,861 0 0	3,760	16,621 0 0	
<i>Satur Station.</i>				
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
B class waiting shed ..	715 0 0	608	1,323 0 0	
Roof over dry-earth bins for 3rd-class urinals.	6 0 0	22	28 0 0	Estimate sent to Agent with letter No. 10,899 of 6th Dec. 1876.
Additional sidings (1 chain) and approaches.	37 8 0	154	191 8 0	
Total ..	6,816 8 0	3,493	10,309 8 0	Estimate not submitted.
<i>Kovilpatti Station.</i>				
B class waiting shed ..	715 0 0	608	1,323 0 0	Estimate sent to Agent with letter No. 10,899 of 6th Dec. 1876.
Roof over dry-earth bins for 3rd-class urinals.	6 0 0	22	28 0 0	
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
Total ..	6,779 0 0	3,339	10,118 0 0	

Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 806.

Statement of Unsanctioned Works necessary to complete the Line—(Continued).

Description of Works.	AMOUNT.		Total.	Remarks.
	Cash.	Stores.		
<i>Kadambur Station.</i>	RS. A. P.	RS.	RS. A. P.	
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul. Estimate sent to Agent with letter No. 10,899 of 6th December 1876.
C class waiting shed ..	443 0 0	429	872 0 0	
Roof over dry-earth bins for 3rd-class urinals.	6 0 0	22	28 0 0	
Total ..	6,507 0 0	3,100	9,607 0 0	
<i>Maniachi Station.</i>				
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
Additional sidings ..	7,200 0 0	9,379	16,579 0 0	
Platform and verandah ..	2,450 0 0	933	3,383 0 0	Estimate sent to Agent with letter No. 12,039 of 20th December 1876.
Approaches ..	1,053 0 0	..	1,053 0 0	
Switches and crossings ..	567 0 0	2,373	2,940 0 0	
Total ..	17,328 0 0	15,333	22,661 0 0	
<i>Thattaparai Station.</i>				
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
Ticket Office ..	1,073 0 0	..	1,073 0 0	
Latrine ..	487 0 0	..	487 0 0	No estimate submitted. Same as sanctioned for Kolattur.
Platform ..	925 0 0	..	925 0 0	
Loading bank and godown	1,527 0 0	..	1,527 0 0	
Approaches ..	1,424 0 0	..	1,424 0 0	
Station-master's bungalow	1,000 0 0	..	1,000 0 0	
Semaphore signal ..	269 0 0	399	668 0 0	
Switches and crossings ..	98 0 0	712	810 0 0	
Total ..	12,861 0 0	3,760	16,621 0 0	
<i>Tuticorin Station.</i>				
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
Cotton shed ..	2,274 0 0	1,008	3,282 0 0	
Lengthening goods shed ..	6,099 0 0	3,553	9,652 0 0	Estimate sent to Agent with letter No. 12,089 of 21st December 1876.
Do. loading bank ..	996 0 0	..	996 0 0	
Approaches ..	263 0 0	..	263 0 0	
Coal shed ..	2,886 0 0	14,530	17,416 0 0	
Switches and crossings ..	236 0 0	1,076	1,312 0 0	
Total ..	18,812 0 0	22,816	41,628 0 0	
<i>Gengundan Station.</i>				
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
C class waiting shed ..	443 0 0	429	872 0 0	
Roof over dry-earth bins for 3rd-class urinals.	6 0 0	22	28 0 0	Estimate sent to Agent with letter No. 10,899 of 6th December 1876.
Total ..	6,507 0 0	3,100	9,607 0 0	
<i>Tinnerelly Station.</i>				
Salt godown loading bank approaches and sidings.	6,058 0 0	2,649	8,707 0 0	No estimate submitted. Same as sanctioned for Dindigul.
Lengthening goods shed ..	5,089 0 0	6,023	10,112 0 0	
Total ..	11,147 0 0	7,672	18,819 0 0	Estimate sent to Agent with letter No. 12,032 of 20th December 1876.
Grand Total ..	1,25,589 8 0	76,811	2,02,800 8 0	

TRICHINOPOLY,
7th February 1877.

(Signed) R. WHITE,
Acting Chief Engineer

(Signed) W. S. BETTS,
Agent.

*Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 803.*

*Schedule of works required to complete the Madura—Tuticorin and Tinnevely Section of
the South Indian Railway drawn up in accordance with the Order of Govern-
ment, dated 10th August 1874, No. 2,200.*

SUBMITTED for the approval of the Government of India.

2. This portion of the southern extension was opened for public traffic on 1st January 1876, and the original sanction lapsed therefore on 31st December 1876. Some months prior to the latter date an inspection was made by the Consulting Engineer in company with the Railway officials, and the schedule now forwarded is recommended for sanction subject to certain alterations hereafter specified.

3. Three statements are submitted:—

- (a.)—Expenditure up to 31st December 1876 on, and amount required to complete, works included in the sanctioned estimates for the southern extension.
- (b.)—Works sanctioned subsequently to the general estimates, and the amounts required to complete them.
- (c.)—Unsanctioned works necessary to complete the line.

4. The total amount required for the completion of sanctioned works, as shown in statements A and B, is Rupees 4,40,897, and this expenditure is being incurred on the sanctions already conveyed. Of the additional works, it is recommended that the salt godowns be omitted for the present at all stations excepting Sattur and Tinnevely; this will reduce the total amount of the schedule from Rupees 2,02,800 to Rupees 1,15,730. Similar accommodation for all stations was included in the schedule for the Trichinopoly—Madura Section; but, with reference to the Order of Government, No. 360, dated 2nd February 1877, it may here be remarked that, although the provision of salt godowns at many of the stations may be postponed, it is probable that increased accommodation for goods in some form or other will be required at several of the stations as the traffic develops. It is proposed that the three new stations for which provision is made shall be built only in the event of the experience gained in working them as trial stations, for a sufficient length of time, being such as to render the expenditure desirable. The extra accommodation at the Maniachee junction has been represented as necessary for working the traffic with reasonable punctuality. The goods sheds at Tinnevely and Tuticorin will probably require to be lengthened at no distant date. Waiting sheds for the accommodation of third-class passengers are considered very desirable. The coal shed at Tuticorin is proposed as an experiment; it is generally thought that fuel deteriorates considerably when exposed to sun and rain for any length of time.

5. The following summary shows that after providing for all additional works there will still be a saving on the engineering portion of the sanctioned estimates.

*Proceedings of the Madras Government, Public Works Department,
8th March 1877. No. 806.*

	Sanctioned Estimate.	Expenditure up to 31st Dec. 1876.	Amount required to complete sanctioned works.	Amount required for unsanctioned works.	Total of Columns 2, 3 and 4.
	RS.	RS.	RS.	RS.	RS.
Construction of line	13,14,129	10,14,765	98,782	..	11,13,547
Ballast and permanent-way	21,04,206	18,93,556	..	..	18,93,556
Stations and buildings	4,46,222	3,39,119	1,09,190	1,15,730	5,64,039
Plant	1,82,571	61,957	32,800	..	94,757
Maintenance	1,33,035	85,808	67,800	..	1,53,608
Establishments	3,79,416	4,69,919	42,100	..	5,12,019
Contingencies	46,577	24,423	12,700	..	37,123
	46,06,156	38,89,547	3,63,372	1,15,730	43,68,649
Other sanctioned works, B	86,827	6,693	77,525	..	84,218
	46,92,983	38,96,240	4,40,897	1,15,730	44,52,867

6. The detailed comparative statement promised in this office No. 12 of 9th January 1877 is not yet ready and shall be submitted later on. As in the Trichinopoly—Madura Section, the saving appears to be chiefly under bridgework, ballasting, leading and laying permanent-way and plant. A large excess occurs under establishment.

(Signed) W. H. COAKER, Captain, R.E.,
for Consig. Engr. for Railways.

No. 204.

ORDER THEREON, 8th March 1877, No. 805.

RAILWAY, No. 30.

ORDERED to be forwarded for the approval of the Government of India.

2. The proposed coal shed at Tuticorin seems a costly work and should be reconsidered.

3. His Excellency the Governor in Council would suggest an experiment being tried with two tons of coal, one ton exposed for six months and the other secured under covering. The result will determine whether coal sheds are necessary.

(True Extract.)

(Signed) J. H. M. SHAW-STEWART, Lt.-Col., R.E.,

Joint Secy. to Govt., P.W.D.,
Railway Branch.

No. 205.

DOCKET No. 806, dated 8th March 1877.

COPY of the above forwarded for the approval of the Government of India.

(True Extract.)

(Signed) J. H. M. SHAW-STEWART, Lt.-Col., R.E.,

Joint Secy. to Govt., P.W.D.,
Railway Branch.

Ed. E. C. Shunker.

Spare Copies

Read the following:-

*Notice to Consulting Engineers
for Railways No: 134 of 28th Feb: 1877*

FOR ORDERS.

*Sanction as per
Instruction (see 3)
note - B.C.*

W. M. M. M.

W. Secy to Govt (Hy Dept)

FOR ORDERS.

245 Ry

PUBLIC WORKS DEPARTMENT

Railway Branch.

Consulting Engineer's Office,

Madras, 28th February 1877.

Schedule of works required to complete the
Madras - Saticore and Tinnivelly section
of the South Indian Railway drawn up in
accordance with the Order of Government
dated 10th August 1874 No. 2200.

No. 134

SUBMITTED

for the approval of the Government of India.
This portion of the Southern
Extension was opened for public
traffic on 1st January 1876, and the
original sanction lapsed therefore on
31st December 1876. Some months
prior to the latter date an inspection
was made by the Consulting En-
gineer in company with the Railway
officials, and the schedule now for-
warded is recommended for sanc-
tion subject to certain alterations
hereafter specified.
3. These statements are submitted
A. - Expenditure up to 31st December
1876 on, and amount required to
complete

complete, works included in the sanctioned estimates for the Southern Extension.

B. Works sanctioned subsequently to the general estimates, and the amounts required to complete them.

C. Unsanctioned works necessary to complete the line.

4. The total amount required for the completion of sanctioned works as shown in statements A and B is Rs. 4,40,897, and this expenditure is being incurred on the variations already conveyed. Of the additional works, it is recommended that the salt godowns be omitted for the present at all stations excepting Pattur and Tinnevely; this will reduce the total amount of the schedule from Rs. 3,02,800 to Rs. 1,15,730. Similar accommodation for all stations was included in the schedule for the Trichinopoly-Madurai section, but, with reference

19 9
to the Order of Government No. 360 dated 2nd February 1877, it may here be remarked that, although the provision of salt godowns at many of the stations may be postponed, it is probable that increased accommodation for goods in some form or other will be required at several of the stations, as the traffic developed. It is proposed that the three new stations for which provision is made shall be built only in the event of the experience gained in working them as trial stations, for a sufficient length of time, being such as to render the expenditure desirable. The extra accommodation at the Maniache junction has been represented as necessary for working the traffic with reasonable punctuality. The goods sheds at Tinnevely and Tuticorin will probably require to be lengthened at

2.2.77. No 560
10.8.74. 2200
1.3.71. 1895

F.W.D.
2. MAR 77
2246

From
The Com^{rs} Gen^l for Railways

Dated 2nd February 1877

Encls: 3. 1462 25. 1344

No 805

371 B
Public Works Department

PROCEEDINGS OF THE MADRAS GOVERNMENT

Under date the 8 March 77

Read the following—

From

The Com^{rs} Gen^l H.E. 134 d/28 Feb/77
for Railways

Ordered to be for-
warded for the approval
of the Govt of India.

The ^{proposed} Coal shed
at Tuticorin seems
a costly work, and
should be reconsidered.

H.E. The Com^{rs} Gen^l
would suggest an ex-
periment being tried
with ^{two} 8 tons of coal—
one ton supposed for
six months & the other
secured under cov-
ering. The result
will determine whether
coal sheds are neces-
sary.

By 2nd March

A.E. No 806 a f 8 March 11/77
Copy of the above
forwarded for the
approval of the
Government of India

1877
Govt. of 1877 India.
PUBLIC WORKS.
To *The Commr of Mysore*
Dated _____
Issued _____
Recd. _____ Encl. _____
G. O., 8th March 1877, No. 806/1806
Nos. 203-204-205

Madama. Interior and
ministry section of the
S. Ry. - The schedule
works required to complete
the line, guaranteed to the
S. Ry. India, and a sugges-
tion offered for experiment
with the view of determining
whether coal sheds are
necessary.
W. P. M. J.