C№ 10677

Govt. of {18 } Madras.

PUBLIC WORKS.

Dated 15/11/90

Recd. Encl.

G.O., 14. XI. 18 90, No. 1785 R

South Indian Railway

Revised estimate for cost of a two 20 feet girder bridge in place of a 15 feet opening at 57/10 A miles — sanctioned —

10/11

C. 14 XI 90

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following paper:—

From the Consulting Engineer for Railways, dated Madras, 7th November 1890, No. 775.

Letter from the Agent, South Indian Railway, dated 1st October 1890, No. 1380, with enclosure.

Submitted for the sanction of Government.

2. The Agent, South Indian Railway, submits a revised estimate, amounting to Rs. 19,343, chargeable in the proportion of Rs. 4,528 to Capital and Rs. 14,815 to Revenue for constructing a two 20-feet girder bridge in place of a 15-feet opening at 57/10 A miles.

3. In G.O, No. 597 R., dated 30th April 1890, sanction was accorded to an estimated expenditure of Rs. 12,334 for this work, which sum has been exceeded by Rs. 7,009. The excesses are due principally to extra earthwork in the diversion, which was a very high one, and to its having to be brought by ballast train; to the cost of erection of the temporary opening which, on account of the softness of the banks, had to be protected with sand bags and boulders; to ballasting which was under-estimated in original estimate; to maintenance of the diversion not provided for previously; and to the provision of a bungalow for the accommodation of the Inspector in charge.

4. Provision has been made for the Capital portion from item 8, Schedule B, and for the Revenue portion from Schedule G, Budget, 1890-91.

5. The revised estimate is recommended for sanction.

ORDER—dated 14th November 1890, No. 1785 R., Public Works.

Sanctioned.

2. This sanction has been registered as No. 21 R. of 1890-91.

(True Extract.)

(Signed) T. GRACEY, Lieut.-Colonel, R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Railway Branch.

To the Consulting Engineer for Railways, with estimate.
„ Examiner, Guaranteed Railway Accounts.

Exd. T. K. Narayana Aiyangar.
Spare Copies

Original

South Indian Railway

Engineer Department

Comparative Statement of costs between the Estimate sanctioned as per Agents letter No. 7600/164 of 20-5-90 and the estimate as now submitted for sanction for Double 20 ft. Girder Bridge at A 57 Ms: 10 T. P.

Final head of account	Description	Estimate sanctioned as per Agents letter No 7600/164 of 20-5-90	Estimate as now submitted	Difference Increase	Difference Decrease	Explanation
	Temporary Diversion					
III	Construction of Line					
	1. Earthwork	1846 - 15252 - 13406				The excess under earthwork in diversion is due to a great deal more earthwork having been found necessary than estimated for and to some of it having been brought by ballast train.
	2. Bridge work					
	1. Minor Bridges and Culverts					
	Temporary 2-15 ft. Openings	151 - 1928 - 777				The cost of erection of the temporary opening has exceeded the estimate, the stuff of which the banks at the back of sleeper stacks was formed was very soft and stipped and extra protection in the shape of sand bags and boulder stones had to be provided.
	4 Level Crossings	11 - 11 -				
IV	Ballast and Permanent Way					
	1. Ballasting	247 - 1680 - 1433				Ballasting was much under estimated in the original estimate.
	2. Permanent Way	322 - 700 - 378				No provision was made in the original estimate for the cost of maintenance of the diversion, on account of the nature of the soil of which it was formed, a special gang had to be kept constantly on it.
V.	Stations and Buildings					
	3. Staff Quarters					
	Temporary Staff Quarter	- - 614 - 614				A bungalow for the accommodation of the Inspector in charge had to be built which was not provided for in the original estimate. The brickwork has cost rather more viz: 9 Rs per yard than (Rs 8-8-0) originally estimated for.
	4. Station Machinery					
	Switches and Crossings	105 - 105 - -				
	Carried over	2682 - 9290 - 6608				

Final head of account	Description	Estimate sanctioned as per Agent's letter No. 7600/164 of 20-5-90	Estimate as now submitted	Difference Increase	Difference Decrease	Explanation
	Brought forward	2682 . .	9290 . .	6608 . .	. . .	
	New Bridge					
III	Construction of Line					
	2. Bridge work					
	1. Minor Bridges and Culverts					
	Double 20 ft. Girder Bridge proposed to be built in place of existing 15 ft. Girder Bridge at A 57 Ms: 10 T.P.	9652 . .	10053 . .	401 . .	. . .	A little ~~more~~ June 71 dry rubble flooring has been found necessary than originally provided for.
		12334 . .	19343 . .	7009 . .	. . .	

Chief Engineer's Office
Tuticorin 19th August 1890.

compd by AA

Duncan F. Smith
for Chief Engineer

Wallace J. Hooper
for Agent.

Ref to R. in No 2220 dt 6-10-90

No. 1380

South Indian Railway,

AGENT'S OFFICE,

1st October 1890.

Vide letter to A no 1163 17-10-90

From

The AGENT,

SOUTH INDIAN RAILWAY

To

The CONSULTING ENGINEER FOR RAILWAYS,

MADRAS

Sir,

Adverting to the Correspondence ending with my letter No 785 dated 2. 6. 90 I beg to forward herewith in duplicate, for the Sanction of Government a revised estimate, No 1244, of the Cost, Rs. 19,343, of Constructing 2. 20 ft. girder bridge in place of existing 15 ft girder bridge at 57 A Mile 10 T. P. Of the amount, Rs. 4528 is allocated to Capital and Rs. 14815 to Revenue.

The estimate is accompanied by a detailed Comparative Statement showing the differences between the Original and the revised estimates and the causes thereof.

I am,
Sir
Your most Obedient Servant

Walter J. Hooper
for Agent.

4 Enclosures.

Ab

REGISTER
No. 1288
FILE
No.

P.W. Encl 10677/90

1785 R.

From

The Agent,

South Indian Railway,

Negapatam.

To

The Consulting Engineer for

Railways,

Madras.

C R

Dated 1 Dec 1890

Received 4 " "

No. 1380

Enclosure

2

Form No. 2.

Public Works Department.

Office of Consulting Engineer for Railways,

Madras, 4th November 1890.

Letter from the Agent South Indian Railway No 1380 dated 1st October 1890 with enclosure.

No. 775

Submitted for the Sanction of Government.

2. The Agent South Indian Railway, submits a revised estimate amounting to Rs 19,343 chargeable in the proportion of Rs 4,528 to Capital and Rs 14,815 to Revenue for constructing a two 20 feet girder bridge in place of a fifteen feet opening at 57/10 A miles.

3. In G.O No 594 R dated 30 April 1890 Sanction was accorded to an estimate

expenditure of Rs 12,334 for this work which sum has been exceeded by Rs 7009. The excesses are due principally to extra earth-work in the diversion which was a very high one, and to its having to be brought by ballast tram, to the cost of erection of the temporary opening which on account of the softness of the banks had to be protected with sand bags and boulders; to ballasting which was under estimated in original estimate; to maintenance of the diversion not provided for previously; and to the provision of

2

accommodation of the Inspectors in charge

4. Provision has been made for the capital portion from item 8 Schedule B and for the Revenue portion from Schedule G Budget 1890-91.

5- The revised estimate is recommended for Sanction.

Sidney Smith
Lieutenant
for Officiating Engineer for Rajputana

P.W.C. No. 1067

Form No. 3.

A
No. 1785 R dy 14th Nov 90.

24/12/11 (90)
Sanctioned.

2. This sanction has been registered as No 21 R of 1890-91

11/12 11/12
Dy: R

From

THE CONSULTING ENGINEER
FOR RAILWAYS,
MADRAS.

No. 775

Dated 7th
Received } November 1890.

No. of Enclosures.

Subject.

Submitting, for the sanction of Govt., a revised estimate for constructing a two 20' girder bridge in place of a 15' opening at $\frac{57}{10}$ miles, S. D. Ry.

A
No. 1785 R dy 12th Nov/90.

P 11/12

To the Commissioner for Rys
with estimate.
— Exr Govt. Rys (Secl).