(1) பக்கங்களின் எண்ணிக்கை ~~(6+5=2)~~ 14 12

(2) புதுக்கித் திருப்பிய நாள் 8 அக்டோபர் 90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

189

P.W.D துறை

அரசாணை எண்.	3427 W
மு. கோப்புத் தாள் எண்.	

அச்சகம் பலவகை

நாள் : 18 - 12 - 1891

~~198~~ .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

5 sheets

(5+1)

இவண. கா-1—18,006—15-6-87.

10

3427/2/1

Report to accompany the Revised Estimate for renewing the Bachappa Bridge, situated in the 52nd mile of Road No 5 in the Udipi Taluq, South Canara, substituting an Iron Superstructure, and executing Sundry Repairs to the existing Masonry Piers and abutments, and rebuilding the Western abutment from formdation.

A Revised Estimate for the renewal of the Bachappa Bridge, has been necessitated, by the fall of the old western abutment; this happened toward the latter end of November last, on the removal of the old loose Stone Revetment, which was taken down in order to rebuild it substantially with rough stone, set in mortar. The breach was inspected by the undersigned, on the 7th Ultimo, and on a careful examination of the work, it was found that the workmanship, as well as the material used, was bad.

Some

Some of the interstices between the stones, had not even been filled up with mortar, and I was able to insert my riding cane right, into several of the seams, it meeting with no obstruction; the wonder is, that this abutment has stood as long as it has, viz: since 1868-69. the year in which it was built, but it was provided with a loose stone revetment laid against it, for about half its height, and this was about 4 feet thick.

With this experience before us, it has been decided, to increase the height of the masonry revetment, to be built round the Eastern abutment, in order to ensure its stability, the amount provided originally for revetting the Western abut-ment, will be utilized for this.

In the Revised Estimate, hereto attached, it has been proposed to replace the old laterite abutment, by one of hammer dressed stone in mortar, and it will be seen from the Plan that the proportions, allowed to both abutment and wingwalls, are in harmony with the weight, they have to sustain. In order to secure symmetry, after the work is completed, granite parapet walls, are provided for, for the Eastern abutment. wing walls, as well.

District Engrs Office
South Canara
Mangalore 24th January 1891

Signed/ John B. Macfarlane
Engineer.

Signed/ V.A. Brodie.
President
Dtt Board S. Canara.

(True Copy)

Rudrath. Buchanan
Lt. Col. R.E.,
Superintending Engineer, IV Circle.

No 651/10

Supg. Engineer's Office, IV Circle,
Coimbatore 14th December 1891.

3427/N2

From

Lt-Col: R. R. C. Drake-Brockman R.E.,
Superintending Engineer,
Fourth Circle.

To

The Chief Engineer,
P. W. Department.

Sir,

With reference to your Memorandum No 4079C of 17th September 1891, I have the honor to forward a Comparative Statement for the renewal of the fallen abutment of the Bachappa Bridge, and to state that the per centage charge for scrutinizing the revised estimate should be on Rs. 2000, being the difference between the original and revised estimates, due chiefly to certain items omitted in original estimate & to the increased rate allowed for rubble in Mortar.

I have the honor to be,
Sir,
Your most obedt. Servt.,

Brockman Lt-Col: R.E.
Superintending Engineer 4th Circle.

Enclosure
1 Copy of Comparative Statement with a report.

scrutinizing

Comparative Statement shewing the difference between the Original & Revised Estimate in renewing the fallen abutment of Backappa Bridge, situated in the 52½ mile of Road No 5 in Adipi Taluq, substituting an Iron Superstructure, and executing Sundry Repairs to the existing Masonry piers and abutments.

Description of work.	Per	Original estimate Quantity	Original estimate Rate	Original estimate Amount	Revised Estimate Quantity	Revised Estimate Rate	Revised Estimate Amount	Difference Quantity	Difference Increase Rate	Difference Increase Amount	Difference Decrease Quantity	Difference Decrease Rate	Difference Decrease Amount	Net amount requiring Sanction	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Iron work in Rolled Iron girders, flooring plates &c &c	Tn	21·37	250	5342 8	21·37	250	5342 8								
Cast Iron Bed plates	Cwt.	24	12	288	24	12	288								
Earthwork in excavating foundation	Cyds				667	3 3	135 79	667	3 3	135 79					
Concrete work in foundation	100 cft				670	35	2348	670	35	2348					
Rubble in Mortar	Rds	3490	15	523 8	6979	20	1395 12 9	3489	5	8724 9					
Granite Chiselled work	Cft				413½	1 8	623 4	413½	1 8	623 4					
Dressed stones on piers and abutments	Rs	108	2	216	108	2	216								
Laterite in mortar	100 cft	114¾	16	18 5 9	114¾	16	18 5 9								
Plastering with Cement	Sq yds	2840	10	284	2840	10	284								
Flooring Bricks	1000	1530	40	61 3 2	1530	40	61 3 2								
Concrete over flooring plates	Sq yds	155¼	6	58 3 6	155¼	6	58 3 6								
Metalling over Concrete	Rds	138	3	25 14	138	3	25 14								
Balls over pillars	Each				8	4	32	8	4	32					
Granite Guard stones octagonal	do				8	4	32	8	4	32					
Cartage of Ironwork to the Site				250			250								
Baling water							30				30				
Erection Sundries & Superintendence				432 5 7			472 13 1				40 7 6				
Total Estimate Rupees				7,500			9,500			2000					
Deduct amount sanctioned in G.O No 921 Dtd 3rd April 1890							7,500								
Net amount requiring Sanction Rupees														2000	

Dist Engr's Office
Dist Board South Canara
Mangalore 24th January 1893

Signed/ V. A. Brodie
President Dist Board
S. Canara

(True Copy)

Signed/ John B. Macfarlane
Engineer.

Rivedales, Brechanan, Lt Col. R.E.,
Supt. Engineer IV Circle.

Vide Report of 3/27 Sept

3427
ملک

W. CURRENT No. (3127)

From

The Supg. Engineer,
4th Circle

No. 3427 W dy 18th Dec/91

B/

Dated 14th
Despatched 14th } Decemb/91.

No. 651
W.
Enclosures. 2

Subject

Comparative statement for the removal of the fallen abutment of Pachaha-ppa Bridge. —

Forwarded a — with a report.

(5)

Water Order

Communicated to
[redacted] Local and Municipal Department with reference to remark 1, of the proceedings in that Department No. 1794L dy 27 July 1891 (G.O. No. 2291 W dy 25th August 1891)

2. The percentages shewn be calculated on Rs 200 and not on Rs 980 as originally proposed by the Supdg Engineer

D 17.12.

OWS
17.12.91

To The S.E. III Circle
" Exec. E. W. Accts
Local & Municipal Dept with statement returned

J.C. 19/12

attached to G.O. No. 2291 W dy 25.8.91