1. Number of pages. 16
2. Date of [illegible] 14.8.3
3. Initials of Reference

M.R.O. 1—38,000—16-10-29.

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons. 6.10.57

G.O. No. 1860 Press / Mis.

8—9

Dated 30 — 9 — 1985

Not to be folded or roughly handled

No. 8. Read the following letter from Colonel C. E. FABER, Chief Engineer; to H. FORBES, Esq., Acting Secretary to Government, dated 21st September 1857, No. 3848.

SIR,

1. have the honor to forward a Plan and estimate prepared by Lieutenant Law, late an Executive Engineer in Canara, for constructing a Bridge of one elliptical arch of 30 feet span, across the Mungalpaddy stream, on the road from Mangalore to Cavoy.

2. The estimate amounts, to Rupees (2,250) two thousand, two hundred and fifty, comprising the items shown in the accompanying abstract.

3. The bed of the steam is of hard gravel, and has a fall of 10 feet ₱ mile.

4. The foundations of the Bridge are to be of laterite in chunam resting on gravel.

5. The abutments of the Bridge are to be connected with each other by retaining walls in front and rear, built of laterite in chunam, 6 feet deep, and the flooring under the arch is to be rough stone covered with jelly $1\frac{1}{2}$ feet in thickness. In rear of the Bridge to prevent scour, is to be a rough stone apron 12 feet broad, and 3 feet thick.

6. The abutments are to be raised to a uniform height of 6 feet, the versed line of the arch being 12 feet, giving a total height of 18 feet to its soffit, and allowing a clear height of 5 feet above the highest floods for the passage of trees, or other floating bodies, the Bridge will provide $462\frac{3}{4}$ square feet of water way, the section of the river during its highest floods being $435\frac{1}{2}$ square feet.

7. The superstructure of the Bridge is to be of laterite in chunam.

8. The parapets are to have no interior cornices, and the road way over the Bridge is to be made horizontal, as well as the approaches to it. Over the arch its clear width between parapets will be 18 feet, and between the wing walls 21 feet.

9. Lieutenant Law in the accompanying letter No. 59, dated 21st July 1857, reports, that the Mangalpaddy stream, as to be inferred by fall of beds, is very rapid, and constantly overflows its banks, and that from want of a Bridge, the road is at times entirely deserted, the traffic following the track along the sea shore. Further that several temporary Bridges have been constructed across the stream by the Revenue authorities, all of which have been carried away by floods.

10. The Plan now submitted is fully approved, and the estimate being prepared on moderate, and sufficient data I beg to recommended it for entry in the Budget of 1858-59.

No. 9. ORDER THEREON, No. 1860; dated 30th September 1857.

Agreeably to the recommendation of the Chief Engineer, the Right Honorable the Governor in Council sanctions for entry in the Budget of 1858-59, the estimate submitted with the foregoing letter, amounting to Rupees (2,250) two thousand, two hundred and fifty, for constructing a bridge of one elliptical arch of 30 feet span across the Mungalpaddy stream on the road from Mangalore to Cavoy in the District of Canara.

(Signed) H. FORBES,
Acting Secretary to Government.

Public. [roads] [New Work]

Abstract of Estimate No. of 185 .5

Road No.

District Canara.

Work. Constructing a Laterite Bridge of One Arch 3 feet Span, over the Mangalhavre Nullah on the Road from Mangalore to Cavay—

Quantities	Description of Work	Rate			Amount	Amount for each part
C. Yds		Rs	as	P.	Rupees	Rupees
1436 1/2	Cft. Laterite in Chunam ... Cft. 100 Cft.	9	"	"	1292	
2115	Do. Brickwork Laterite in Do. ... Do.	12	"	"	254	
53	Squares of Pointing ... to Do.	"	8	"	25	
11 1/2	Cft. Rough Stone flooring covered with 3 Inches of Tally and Chunam ... Cft. 100 Cft.	4	"	"	47	
40	Cyd. Rough Stone apron in rear ... Cyd.	"	4	"	10	
39360	Cft. Earth work ... Cft.	"	"	1	205	
200	Forming the water course by a dam and Channel ... Each	"	1	"	75	
	Centering				60	
	Baling				50	
	Superintendence and Sundries				232	
	Total Contract Rupees Two thousand Two Hundred and Fifty					2250

Central Office of the D. W.
Fort Saint George
21st Sept. 1857

Alex. Taylor Colonel
Chief Engineer D. P. W.

Quantities	Description of Work	Rate			Amount	Amount for each part
C. Ft's.		Rs	As	P.	Rupees	Rupees

Enclosure

No. 1 to

From

The Chief Engr

To

The Secretary to G

Dated 2nd Septr 1837

Received 7th Novr 1837

No. 3848

Abstract Estimate
Constructing a Laterite
of one Arch 30 feet span
the Mangalcharra Anicut
Road from Mangalore
in the District of Canara
Amounting to Rs 2250

Central Office 21st September 1837.

No. 3848

From

The Chief Engineer

To

The Secretary to Government,
P.W. Department.

Publics
Bridges

Sir,

Encls: 4 for particulars
Vide Govt Letter

1. I have the honor to forward a Plan and Estimate prepared by Lieutenant Laws, late an Executive Engineer in Canara for constructing a Bridge of one Elliptical arch of 30 feet span across the Mangalcharra Anicut on the road from Mangalore to Cavoy.-

2. The Estimate amounts to Rupees (Rs. 2,250) Two thousand, two hundred and fifty, comprising the items shown in the accompanying Abstract

3. The bed of the stream is of hard gravel, and has a fall of 10 feet 7 miles.-

4. The foundations of the Bridge are to be of laterite in Chunam resting on gravel.-

5. The abutments of the bridge are to be connected with each other by retaining walls in front and rear, built of laterite in Chunam, 6 feet deep, and the flooring under the Arch is to be rough stone covered with jelly 1½ feet in thickness. In rear of the Bridge to

present

prevent scour, is to be a rough stone apron 12 feet broad, and 3 feet thick.

6. The Abutments are to be raised to a uniform height of 6 feet, the versed line of the Arch being 12 feet, giving a total height of 18 feet to its soffit, and allowing a clear height of 5 feet above the highest floods for the passage of trees, or other floating bodies. The bridge will provide 462½ square feet of water way. The section of the river during its highest floods being 435½ square feet.

7. The superstructure of the Bridge is to be of laterite in Chunam.

8. The parapets are to have no interior cornices, and the road way over the bridge is to be made horizontal, as well as the approaches to it. Over the Arch its clear width between parapets will be 18 feet, and between the wing walls 21 feet.

9. Lieutenant Lawrie the accompanying letter No 59, dated 21st July 1837, reports, that the Manoel Hardy stream, as it is inferred by fall of beds, is very rapid, and constantly overflows its banks, and that from want of a bridge, the road is at times entirely deserted, the traffic following the track along the sea shore. further that several temporary bridges have been constructed

constructed across the stream by the Revenue authorities, all of which have been carried away by floods.

10. The Plan now submitted is fully approved, and the Estimate being prepared on moderate, and sufficient data I beg to recommend it for entry in the Budget of 1838/39.

I have the honor to be
Sir,
Your most Obed.t Servant

Central Office of Rly.
Fort St George
21st September 1837.

A.H. Taber Colonel
Chief Engineer

Aide Engr H.C.

List of Enclosures.

1 Letter from Lt Lawrie, Asst Engr No 59 dated 21 July 1837
1 Abstract Estimate } 2nd with D Engr Letter No 205 3 Aug 1837
1 Plan.

Public Works 1837 Detail
Dy. to Cons. 6th October
No. 1884

No. 1860

From
The Chief Engineer
To The Secretary to Government
P. W. Department

Dated 21st September 1837.
Read 22nd

4 Encls. No. 3848

Forwards a Plan and Estimate of Rupees 2250 prepared by Lieut. Law late an Executive Engineer in Canara for constructing a Bridge of one Elliptical arch of 30 feet span across the Mungalpaddy stream on the road from Mangalore to Cavoy. and recommends the same for entry in the Budget of 1858/59.

30th Septr
No. 1860 Wilkinson

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Agreeably to the recommendation of the Chief Engineer the Right Honorable the Governor in Council sanctions, for entry in the Budget of 1858/59, the Estimate submitted with the foregoing letter, amounting to Rupees (2250) Two thousand two hundred and fifty, for constructing a Bridge of one Elliptical arch of 30 feet span across the Mungalpaddy stream on the road from Mangalore to Cavoy in the District of Canara.

Fort St. George
30th Sept 1857

To the Chief Engr with 5 Encls

Dispd 1st Oct.

No. 8-89

C25 Sep. R28th