1. Number of pages. 16
2. Date of [illegible] 15-7-37
3. [illegible]

4

M.R.O. 1—82,409—22-11-50.

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Govt 22-6-57

G.O. No. 1185	Press Mis.
33-86	
Dated 18-6-	18 57

Not to be folded or roughly handled

Fort Saint George, Public Works Consultation of 23rd June 1857.

No. 33. Read the following Extract from the Proceedings of the Chief Engineer, dated 6th June 1857, No. 984.

Read the following letter from Lieutenant E. A. FOORD, District Engineer South Arcot; to Colonel C. E. FABER, Chief Engineer, dated Cuddalore, 21st April 1857, No. 71.

SIR,

With reference to Extract from the Minutes of Consultation, under date the 10th March 1857, No. 449, I have the honor to forward an Estimate amounting to Rupees 850 for putting up eight strong props for the support of the lattice bridge at Mercanum, I suggested to Mr. Wright, who prepared the Plan and estimate, that the props should rest on flat stones, bedded in wells, as I considered that if the piles were simply driven into the ground, and that operation were performed imperfectly, they would soon cease to answer the purpose for which they were intended. Still as the latter is much the cheaper plan, I should be inclined to adopt it, if good Superintendence is available at the time of the work being carried on, in order to avoid the expense of well sinking and temporary bunds.

2. I have also prepared a second Plan and estimate, which I do not forward at present, for building four Masonry piers for the support of the timber work. The cost of these piers will of course be much greater than that of the wooden piles, but besides answering the purpose more effectually, they will, when the timber work is decayed, be ready to carry brick arches. I have always thought it was a mistake to put up a timber bridge at Mercanum as the first cost is greater than that of a Masonry bridge and the durability less.

3. I examined the bridge after its completion in January, and I then directed the Overseer to insert to some extra diagonal pieces over the pier, when there was some appearance of the framing tearing asunder. This must have added to the strength of the work but Mr. Wright in his letter does not allude to its present state, but only mentions that the bridge is carefully watched and over-crowding prevented.

4. The Estimate for piers only amounts to Rupees 3,220 and for piers and arches to Rupees 5,320 but I would not recommend the present bridge being taken down until it shows decided symptoms of failure, and until the strengthening by wooden props has been tried and found not to answer.

From Major E. LAWFORD, Superintending Engineer Southern Circle; to Colonel C. E. FABER, Chief Engineer, dated Camp Calicut 11th May 1857, No. 134.

SIR,

In returning the papers received with your proceedings of the 2nd May 1857, No. 30. I have the honor to state that I consider the construction of wooden props resting on wells, at a cost of Rupees 850 preferable to that of Masonry piers costing 3,220 Rupees for the security of the Lattice Bridge at Mercanum.

2. The total cost of this bridge will thus be about 12,000 Rupees or 66 Rupees per running foot for 9 feet of roadway; a circumstance worthy of record.

Resolved, with reference to para. 3, of Extract from the Minutes of Consultation No. 449, dated 10th March 1857, to direct the District Engineer, to carry into execution his estimate amounting to Rupees (850) eight hundred and fifty, and providing for erecting props under the Lattice Bridge at Mercanum.

2. Resolved also to forward the estimate together with the letters No. 71, dated 21st April 1857, from the District Engineer, and No. 131, dated 11th May from the Superintending Engineer, Southern Circle to Government for information.

(Signed) C. E. FABER, Colonel,
Chief Engineer.

Fort Saint George, Public Works Consultation of 23rd June 1857.

No. 34.

ORDER THEREON, No. 1185; dated 18th June 1857.

In pursuance of the order contained in para. 3 of Extract Minutes of Consultation dated 10th March last, No. 419, the Chief Engineer submits an estimate for the erection of wooden props for the support of the Lattice bridge at Mercanum in the District of South Arcot, amounting to Rupees 850. The urgent necessity for securing the stability of this bridge has already been considered by Government in the above Minutes of Consultation on Major Lawford's representation regarding its dangerous condition; and as it is probable that delay in the execution of the work now estimated for might lead to the fall of the structure and thereby cut off the means of communication with the salt pans of Mercanum, and stop the trade in that direction during the monsoon, the Right Honorable the Governor in Council sanctions the estimate of Rupees (850) eight hundred and fifty, for execution on emergency.

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

No. 984.

Extract from the Proceedings of the Chief Engineer in the Department of Public Works, dated the 6th June 1857.

From Read the following letter
To the Chief Engineer &c &c
Fort Saint George

Public

Sir,

With reference to Extract from the Minutes of Consultation under date the 10th March 1857 No. 419, I have the honor to forward an Estimate amounting to Rupees 850 — for putting up eight strong props for the support of the lattice bridge at Mercanum. Suggested to Mr. Wright, who prepared the plan and estimate, that the props should rest on flat stones, bedded in mortar, as I considered that if the piles were simply driven into the ground, and that operation were performed imperfectly, they would soon cease to answer the purpose for which they were intended. Still as the latter is much the cheaper plan, I should be inclined to adopt it, if good Superintendence is available at the time of the

the work being carried on, in order to avoid the expense of well sinking and temporary bunds.-

2. I have also prepared a second plan and Estimate, which I do not forward at present, for building four Masonry piers for the superstructure timber work. The Cost of these piers will of Course be much greater than that of the wooden piles, but besides answering the purpose more effectually they will, when the timber work is decayed, be ready to carry brick arches. I have always thought it was a mistake to put up a timber bridge at Meeanee as the first Cost is greater than that of a Masonry bridge and the durability less.-

3. I examined the bridge after its completion in January, and then directed the Overseer to insert some extra diagonal pieces over the piers where there was some appearance of the framing tearing asunder. This must have added to the strength of the work but Mr. Wright in his letter does not allude to its present state, but only mentions that the bridge is carefully watched and

and over crowding prevented.- 3

4. The Estimate for piers only amounts to Rs. 3,220-- and for piers and arches to Rs. 5,320-- but I would not recommend the present being taken down until it shows decided symptoms of failure, and until the strengthening by wooden props has been tried and found not to answer.-

Hyderabad
21st April/57

I have &c.
Lt. R.E.
D. Sup. Arch.

No 134.

Sukkur Supn Office 1st Circle
Camp Meeanee 11th May/57.

From Major J. Lawford
Supd. Sup 1st Circle

To Colonel C.E. Fabre
Chief Supr N.F.B.
Hyderabad

Sir, dated [illegible] 1857

In returning the papers received with your Proceedings of the 2nd May 857 No 30, I have the honor to state that I Consider the Construction of wooden

props

proper Casting on measurement at Cost of Rs 850. prepared & Part of masonry piers Casting 3220 Rupees for the security of the Lattice Bridge at Mercanum.

2. The total Cost of this bridge will thus be about 12,000 Rs or 65 Rs per running foot for 7 feet of Roadway, a Circumstance worthy of record.

I have &c
Sd/ G. Lindsay
Supy Genl Circle

Resolved, with Reference to Para 3 of Pt Supn the Mins of Cons: No 449 dated 16th March 1857, the Dirs to the Districh Engineer to carry into execution the Estimate amounting to Rupees 850/ eight hundred and fifty, and providing for erecting posts under the Lattice Bridge at Mercanum.

2 Resolved also to forward the Estimate together with the Letter as per dated 24th April 1857 from the Districh Engineer, and No 134 dated 11th May from the Superintending Engineer

Engineer Southern Circle for Government for information.

J C

Chief Secy

No 1 To Secy to Govt

Copy

Public [roads] [New Work]

Abstract of Estimate No. of 185 /5

Road No.

District. South Street.

Work. Erecting 8 strong props to support the Lattice Bridge

at Maraimmo.

Quantities	Description of Work	Rate Rs.	As.	P	Amount Rupees	Amount for each p. Rupees
C. Yds						
189/4	Cubic ft. of Teak Wood @ 1 ft.	1	12	"	331	
8	Granite stones @ each	3	"	"	24	
8	Wells of 4½ feet diameter outside to be sunk 6 feet each	18	"	"	144	
	Iron bolts straps &c.				50	
8	Probable cost of fixing each post @ each	10	"	"	80	
	One Maistry for 4 Months @ Month	14	"	"	56	
	Constructing and removing dams, baling &c.				150	
						835
	Sundries					15
	Total Company's Rupees Eight hundred & fifty					850.

Central Office of Public Works
Fort St George
6th June 1857.

(Signed) W. Caldwell Colonel
Chief Engineer &c. &c.

Public Works Dept. Received 23rd June 1857. No. 1163

Examined & found correct.
Superintending Engineer
2nd Circle.

Recorded
Assistant Engineer

Examined & found correct.
Executive Engineer
2nd Division.

Recorded
Assistant Engineer

Submitted for execution
(Signed) W. Caldwell Colonel
Chief Engineer &c. &c.

Sanctioned for execution the sum of Rupees Eight hundred & fifty (850) for the erection of Lattice Bridge at Maraimmo as per Estimate and Plan submitted with the above remarks.

Fort St George
12th June 1857.

(Signed) [illegible]
Secretary to Government
Public Works Department

Enclosure.

In a

From

The Chief Engr
D.P.C.

To

The Secretary to Govt
D.P.W.

Dated 6th }
Received } June 1857

P.W. 1163/57

No. 984

Abstract Estimate of the expense of erecting 8 strong props to support the Lattice Bridge at Mercaumma in the District of South Arcot Amounting to Co's Rs 850

Public Works Dept.

7

No. 1135

Extract from the Minutes of Consultation

Under date the 18th June 1857.

Read the following

Extract from the Proceedings of the Chief Engineer.

Before enter 6 June 1857
No 984

H

W.J.

In pursuance of the order contained in para 3 of Extract Min. of Con. dated 10 March last No. 449, the Chief Engineer submits an Estimate for the erection of wooden props for the support of the

Lattice

Cons 10th March 57 N:98494

Public Works 1857 - Dept.
Dr to Cons 23rd June 57.

£ 1.1185.

Extract Minutes of Cons:
Dy 18th June 57

Sanctg on being given
the Estimate of Rs 850. for
the erection of wooden
props under the Lattice
bridge at Mercaicund
in the District of
South Arcot.

1.334.31/4

C12 Dams 815