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M.R.O. 1—82,409—23-11-30.

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons. 24 11 57 1

G.O. No. 2153 Press Mis.

125-26

Dated 23-11- 1857

Not to be folded or roughly handled

No. 125. Read the following letter from Colonel C. E. FABER, Chief Engineer; to H. FORBES, Esq., Acting Secretary to Government, dated 9th November 1857, No. 5076.

SIR,

With reference to Extract from my Proceedings of the 3rd September 1857, No. 3439, and to the orders of Government thereon, under date the 15th Idem, No. 1750. I have the honor to forward the undermentioned estimates amounting in the aggregate to Rupees (7,390) seven thousand three hundred and ninety, for the construction of two bridges across hill streams on the road between Coodootany and Darogee, on the road from Bellary to Kumply in the Bellary District, in lieu of the two flat bridges destroyed in June last, in consequence of their being too low, and not affording sufficient waterway.

1 Letter from the District Engineer Bellary dated 26th October 1857, No. 266.
1 Do. dated 24th August 1857 No. 187.
2 Estimates.
1 Plan.

I. An estimate of Rupees (4,710) four thousand seven hundred and ten, for a bridge of (7) seven arches of 30 feet span and a rise of 7′ 6″ with a waterway of about 1600 square feet instead of the 500 which the former structure possessed, the arches, parapets, and spandril walls being of brick, and the foundations and other solid portions of stone, of which a large proportion will be furnished by the ruins of the old bridge. The foundations will be protected by a masonry invert flooring, strengthened by front and rear retaining walls, of the same depth as the foundations of the piers.

II. An estimate amounting to Rupees (2,680) two thousand, six hundred and eighty, for a bridge of (3) arches of 30 feet span and 7′ 6″ rise, with a waterway of 600 feet instead of 500 as before. It will be built of stone and brick, in the same manner as the one above described, and will be similarly protected by invert flooring and retaining walls; and crossing the stream at an angle, it will have a skew of 15°.

2. The road from Bellary to the ferry across the Toombuddra at Kumply, being one on which there is considerable traffic, and the only practicable line of communication in the wet weather. I recommend the estimates for sanction in the Budget of 1858-59 as they are calculated on moderate rates, and it has been shown* that any attempt to repair the old bridges would be unavailing

* District Engineers letter No. 187 of 24th August 1857.
Do. do. No. 226 of 28th October 1857.

Letter from Lieutenant J. F. FISHER, District Engineer of Bellary; to Colonel C. E. FABER, Chief Engineer Pengondah, dated 26th October 1857, No. 266.

SIR,

With reference to Extract of your Proceedings No. 3439, dated 3rd September 1857, I have the honor to forward copy of a letter from the Collector of Bellary together with Plan and estimate amounting to Rupees 7,390 for restoring two Bridges on the road from Coodootany to Darogee and request you will be good enough to enter the same in the Bellary Budget list for 1858-59.

2. I beg to say from the sections of the Nullahs furnished by Mr. Supervisor Porter and the areas of the waterways provided in the old bridges that in one instance at least the work was destroyed on account of bad workmanship and in the other the waterway provided was totally insufficient for the Nullah the bridge had to span.

Letter from Lieutenant J. F. FISHER, District Engineer of Bellary; to Colonel C. E. FABER, Chief Engineer Bellary District, dated 24th August 1857, No. 187.

SIR,

I have the honor to report to you that two Bridges one of 14 and the other 12 Vents on the road from Coodootany to Darogee have been severely damaged by the rains of this season, a pier

November 1857 — Chief Engineer D. P. W.

in each case having been completely destroyed and from the construction of the waterway the beds of the Nullahs have been considerably scoured there being no aprons or retaining walls. Mr. Porter had reported these accidents to me, but I did not forward his report to you until I had personally examine these works myself, having done so I beg to say that I do not consider any repairs will be useful. The piers as far as I could see are built stone and mud and chunamed out side, so are the abutments I believe. The waterway is so considerably constructed by this kind of construction that I beg to suggest that the whole thing be demolished and Arch, bridge substituted in their stead, the stone materials of the present building will be available for the new works.

No. 126. ORDER THEREON, No. 2153; dated 23rd November 1857.

The Right Honorable the Governor in Council sanctions for entry in the Budget of 1858-59, the two estimates submitted by the Chief Engineer, amounting together to Rupees (7,390) seven thousand, three hundred and ninety, for constructing two Bridges on the road between Coodootany and Darogee in the District of Bellary.

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

Central Office of P. W.
No. 5076. Fort St. George 9th November 1857.

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

Bellary District. Sir,
Public Communication — Roads.

With reference to Extract from my Proceedings of the 3rd September 1857 No. 3439, and to the orders of Government thereon under date the 15th idem No. 1750, I have the honor to forward the undermentioned Estimates amounting in the aggregate to Rupees (7,390) Seven thousand three hundred and ninety for the construction of two bridges across hill streams on the road between Coodootany and Darogee, on the road from Bellary to Kumply in the Bellary District, viz. lieu of the two flat bridges destroyed in June last, in consequence of their being too low, and not affording sufficient waterway.

Enclosures 5
1 Letter from the D. Engr. Bellary dated 26 Oct. 57 No. 266.
1 Do. from Do. dated 27 Oct. 57 No. 267.
2 Estimates
1 Plan.

I. An Estimate of Rupees (4,710) Four thousand seven hundred and ten, for a bridge of (7) seven arches of 30 feet span and a rise of 7.6" with a waterway of about 1600 square feet instead of the 600 which the former structure possessed, the arches, parapets, and spandril walls being of brick, and the foundations and other solid portions of stone, of which a large proportion will be furnished by the ruins of

November 1857 — Chief Engineer D. P. W.

of the old bridge. The foundations will be protected by a masonry invert flooring, strengthened by front and rear retaining walls, of the same depth as the foundations of the piers.

II.- An Estimate amounting to Rupees (2,680) Two thousand six hundred and eighty, for a bridge of (3) Arches of 30 feet span and 7-6 rise, with a water-way of 600 feet instead of 500 as before. It will be built of stone and brick, in the same manner as the one above described, and will be similarly protected by invert flooring and retaining walls; and crossing the streams at an angle, it will have a Skew of 15°

2.- The road from Bellary to the ferry across the Tombudhra at Kumply, being one on which there is considerable traffic, and the only practicable line of communication in the wet weather. I recommend the Estimates for Sanction in the Budget of 1858/59. as they are calculated on moderate rates, and it has been shown that any attempt to repair the old bridges would be unavailing.-

* Sick Engr. Letter No. 157 of 24 August/57 do do No. 248 of 30 Octr/57

I have the honor to be
Sir
Your most Obed.t Servant
Rd. Fraser Colonel
Chief Engineer

Central Office of Rs
Fort St. George
9 November 1857.

C.A.B.

180

5

Public (roads) (New Work)

Abstract of Estimate No. of 185 /5

Road No.

District Bellary.-

Work Constructing a Three Arched Bridge across a Nullah near Hoodootanee on the Hookatanee and Darogee Road.-

Quantities	Description of Work	Rate			Amount	Amount for each part
C. Yds.		Rs	as	P.	Rupees	Rupees
7842	Cft. Stone in Chunam @ 6 3/4 d	1	11	"	490	
5520	Do Brick in Chunam Do	3	"	"	613	
4547 3/4	Do Arch work brick in Chunam @ 6 3/4 d	5	"	"	842	
5894	Sup.e Ft. Plastering with 2 coats of Chunam @ 2 1/2 d	2	"	"	118	
3465	Cft. Filling in between arches @ 6 3/4 d	1	8	"	192	
7020	Do Flooring rough Stone Do	"	5	4	87	
792	Do Excavation Do	"	1	"	34	
14480	Do Raising Aproches	"	"	"	60	
	Centerings	"	"	"	200	
	Removing Old Bridge	"	"	"	100	
	Sundries baling Superintending Guard Stones Cornice &c. at 5 P.cent	"	"	"	144	
						2880
	Deduct Stone available from old bridge	"	"	"	"	200
	Total Company's Rupees					2680

Central Office of P.W.
Fort Saint George
9 November 1857.-

Architect Colonel
Chief Engineer D.P.W.

Quantities	Description of Work	Rate			Amount	Amount for each part
C. Yds.		Rs.	As.	P.	Rupees.	Rupees

Enclosure
In a Letter

From
The Chief Engineer
D. P. W.

To
The Secretary to Govt.
D. P. W.

Dated 9th Novr/57.
Received 13
D. P. W. 24/7/57
No. 5076

Abstract Estimate for Constructing a Three Arches bridge a Cross a Nullah near Koodatanee on the Koodatanee and Darogee Road in the District of Bellary:—

Amounting to C. Rs. 2680—0—0

Public, (roads) [New Work]
Abstract of Estimate No. of 185 .5
Road No.
District. Bellary—

Work. Constructing a Bridge of 7 arches across the Nullah near Tinniapoor on the Koodatanee and Darogee Road in the Talook of Bellary.—

Quantities	Description of Work	Rate Rs.	as.	P.	Amount Rupees	Amount for each part Rupees
C. Yds.						
12705	C. ft. Stone in Chunam @ 6 yd.	1	11	"	794	
6763½	D°. Brick in Chunam @ D°.	3	"	"	751	
11245½	D°. Archwork brick in Chunam @ D°.	5	"	"	2083	
14314	Sup. ft. Plastering with 2 Coats of Chunam @ D°.	2	"	"	286	
15120	C. ft. Flooring Rough Stone @ 6 yd.	"	5	4	187	
31032	D°. Excavation @ D°.	"	1	"	72	
170	C. yd. Filling in between arches @ D°.	"	8	"	85	
	Raising Approaches	"	"	"	125	
	Centerings	"	"	1"	200	
	Removing old Bridge	"	"	"	100	
	Sundries Establishment at 5 P. Cent	"	"	"	227	
						4910
	Deduct for Stone from old Bridge	"	"	"	"	200
	Total Company's Rupees					4710

Central Office of P. W.
Fort Saint George
9 November 1857.

W. Lambton Colonel
Chief Engineer D. P. W.

Quantities	Description of Work	Rate			Amount	Amount for each part
C. Yds.		Rs.	As.	P.	Rupees	Rupees

Enclosure

In a Letter

From

The Chief Engineer

D. P. W.

To

The Secretary to Govt.

"

D. P. W.

Dated 9th November/57.

Received

P.W. 2247/57

No. 5076.

Abstract Estimate for Constructing a bridge of 7 Arches Across the Nullah near Timmapoor on the Hoodatany and Darogee Road in the Talook of Bellary.—

Amounting to Co's Rs. 4710—0—0

vide 125

P.W.D. Rd. 1837 Dec. 2d 4th November

No 2247.

From

The Chief Engineer

To The Secretary to Government

P.W. Department.

Bellary
Received 13th November 1837

No 5076

Encls. 5 Returned
3 Encl.

Submits 2 Estimates amounting to Rupees 7390 — for constructing two Bridges on the road between Cowdoolany and Daroojee in the Bellary District and recommends them being in the Budget of 1858/59 — No 2153. 23d Nov.r
With an order

No 125 & 126.

C17 Nov.r 21st

No 2153

The Right Honorable
the Governor in Council sanctions,
for entry in the Budget of
1858/59, the two Estimates
submitted by the Chief
Engineer, amounting together
to Rupees (7,390) seven thou.
and three hundred and
ninety, for constructing
two bridges on the road
between Cowdoolany and
Daroojee in the District of
Bellary.

H. Mc Gregor
23d Nov.r 1837.

Copies to the Chief Engr. Dispatch 24th
Instr. 3 Engr. Encl. 15/12