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MADRAS RECORD OFFICE.

Government of Madras.

DEPARTMENT.

G.O. No.	Press Mis.
Dated	18 U.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
29th February 1864.*

No. 595. Read the following letter from Captain J. BEAN, R. E., Officiating Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 9th February 1864, No. 1,769:—

SIR,

1. With reference to the last paragraph of Government Order No. 195, dated 19th instant, I have the honor to enclose Plans and Estimates for increasing the water-way of the bridges on the road from Trichinopoly to Tanjore, and for building an additional bridge and culverts to admit of the passage of storm-waters. Also for increasing the water-way of the bridge across the Corryaur river on the Trichinopoly and Dindigul road, for widening the river itself, building extra culverts, and for extending the Calingulah in the south bank of the Weyacondan Channel.

3 Reports.
3 Abstract Estimates.
3 Plans.
1 Sketch.

	RS
* Adding 3 arches to bridge of 3 arches 16 feet span, in the 5th mile on the road from Trichinopoly to Tanjore	4,020
Constructing a bridge of 3 arches of 16 feet span, in the 5th mile on do. do.	4,120
Constructing 2 culverts, each 4 vents 6 feet span in 12th mile on do. do. at 1,600 Rupees ..	3,200
Do. do. do. one vent 6 feet span in 3rd and 8th miles on do. do. at 640 Rupees	1,280
	<u>12,620</u>
Adding 3 arches to bridge of 5 arches of 21 feet span each, across Corryaur river, on the road from Trichinopoly to Dindigul	3,210
Widening the Corryaur river below bridge and removing Ban Rat mouth	1,120
Constructing two culverts, each 4 vents 6 feet span at 1,600 Rupees	3,200
	<u>7,530</u>
Extending the Calingulah in the south bank of the Weyacondan Channel in the limits of Sholamadavy	4,760

† No. 1,304, dated 21st December 1863.

2. The aggregate amount of these Estimates is Rupees 24,910, viz., Rupees 12,620, for the Tanjore road, Rupees 7,530 for the Dindigul road, and Rupees 4,760 for the Weyacondan Calingulah as particularized in the margin.* They have received the approval of the Collector and bear his countersignature.

3. The necessity for these works will be apparent from Captain Foord's letter† reviewed in the above Order. In paragraph 2, it will be observed that the late Superintending Engineer stated that "the cost is estimated at about 8,000 Rupees," but this was an error, as this amount represented the sum asked for by Captain Palmer, Executive Engineer, to make a commencement with in the current official year, and I am still prepared to have it, or rather a portion of it, expended if sanction is accorded immediately.

4. The present bridge across the Corryaur river on the Madura road to Trichinopoly has five arches of thirty feet span with seven feet piers, whilst the bridge proposed to be enlarged and which is lower down the river has only five arches of twenty-one feet span with piers four feet only in height, and as the flood waters last season gave an area of upwards of one thousand one hundred square feet, this enlargement of the work is not more than is necessary to prevent breaches in the road. The water which accumulated from high freshes on the Trichinopoly and Tanjore road even now stands in places as high as the top of the embankments, and as the drainage of a large tract of country has to cross this line additional water-way is required between the 3rd and 12th miles.

5. I observe that this bridge has piers of only three feet in thickness, though the spans are twenty-one feet. The bridge on the Tanjore road of three arches has piers four feet thick, though the spans of the three arches which are to be extended by the addition of three more, are only sixteen feet, and Captain Palmer who has designed the additional bridge to allow of increased water-way has adopted the same thickness of pier. On calling for information on this point, the Executive Engineer states that owing to the bad material, inefficient supervision and the rapidity of the freshes in these rivers, he is not inclined to reduce the thickness of the masonry, and under this explanation I am disposed to leave the plans unaltered.

6. As the floods of last October have caused so much devastation and their effects have been augmented by the want of these additional masonry works, I trust that the Estimates for all the bridges, culverts and calingulah may find a place, if not too late, in the Budget of 1864-65, or at any rate be set by for sanction from the Reserve of that year.

Proceedings of the Madras Government, Public Works Department,
29th February 1864.

7. The rates I believe to be correct, and in accordance with those now in force in the Trichinopoly District.

No. 596.

ORDER THEREON, 29th February 1864, No. 597.

1. The Estimates submitted with this letter are for the following works:—

For increasing the waterway of certain bridges, and constructing new bridges and culverts on the road from Trichinopoly to Tanjore	rs. 12,620
For increasing the waterway of the bridges and culverts on the road from Trichinopoly to Dindigul	7,530
For extending the calingulah in the south bank of the Weyacandan Channel	4,760

2. The necessity for providing these bridges and calingulahs with increased water-way for the passage of heavy floods, was brought to the notice of Government in a letter from the Superintending Engineer, dated 21st December 1863, No. 1,394, and the several breaches therein reported were represented to be due to the absence of adequate means of escape. It appears from Captain Bean's letter now received, that since the date of the last high freshes, the water on the Trichinopoly and Tanjore road stands in places as high as the embankments themselves, and as the drainage of a large tract of country has to cross this line, additional water-way is represented to be required between the 3rd and 12th miles.

3. The necessity and the urgency of the works being apparent, the Governor in Council resolves to sanction the Estimates submitted, and to allot the sum of Rupees 8,000 applied for, from the Reserve Fund, to admit of the commencement of the works in the current official year. The Government is in a position to make this sum available from the Reserve, as it appears from Captain Bean's letter, dated 13th February 1864, No. 1,841, that a like sum will remain unspent from the allotment for the extension of the water communication from Topetoray to the Vellyaur river. The Budget for 1864-65 being closed, the works now sanctioned cannot find a place therein; but the necessary funds will be granted from the Reserve after 1st May next, to allow of their being completed.

4. It is desirable that the Estimates under consideration should be treated separately, and the Superintending Engineer will report how much of the grant of 8,000 Rupees now made, it is proposed to spend upon each.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 6th Division.
" Controller and Auditor of Public Works Accounts.
" Accountant General.

Exd S. T. Augustin.

District Improvement
Communication
Bridges

TRICHINOPOLY DISTRICT.

Abstract Estimate No. of 1863-64

Work. Increasing the Waterway of the Bridges & Culverts on the Road from Trichinopoly to Dindigul.

Quantity.	Description of Work.	Rate.		Amount.		Amount of Each Part.	
		Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
111	Adding 5 arches to Bridge of 5 arches of 21 ft span across the Corayam River on Dindigul Road						
252	Cyds of Rough stone in mortar for C.P.	2	6	522			
4889 1/2	Cyds of Bricks in mortar for C.P.	2	6	1156			
2517 1/2	Cyds of Bricks in mortar for C.P.	2	6	522			
4767 1/2	Suppl of Plastering with red coat of chunam for 1/2	2	6	9557			
65 1/2	Cyds of Metalling with stone Jelly for 1/2	1	6	65154			
65 1/2	1/2 of Graveling for 1/2	8		5248			
	Demolishing old masonry, and converting Abutment into Pier			50			
	Setting in new Roadway & Approaches with earth work			100			
	Excavation for Bridge and widening of channel at foot of Bridge			350			
	Plating			200			
	Leaffording			100			
	Cuttings			400			
	Carried forward			2820	115		
	educt 1863 5 Collee M			2920	115		

New York

Work. Extending the Calingulam in the South Bank
of the Megarudan Channel in the Limit of Sholamadary.

Quantity.	Description of Work.	Rate.		Amount.		Amount of Each Part.	
		Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
2601 1/2	Cft of Demolishing of Masonry in mortar	"	" 6	81	4/10		
2243 1/2	Cft of Brick work in mortar	"	" 2	280	7/10		
566 1/2	Cybs of Rough stone or dressed in mortar	"	" 12	1275	"		
121 1/2	Cft of Cast Stone in mortar	"	" 12	1214	"		
8 1/2	Cft of Chalk and Spatters	"	" 18	39	6/10		
264	Cybs of Rough stone or Casterite Apron	"	" 12	396	"		
126	Cybs of Rubbing of Stone in mortar	"	" 2	252	"		
	Excavation and Filling			450	"		
	Baling			250	"		
	Scaffolding			100	"		
	Sundries and Contingencies			133	6/4		
	Total Estimate Paper					4760	"

W. K. L. S. Captain
Executive Engineer Trichinopoly

Signature of Engineer's Office
Trichinopoly 22 December 1883

Recd. 25

J. Fraser
Collector

Recd. 25
Signature of Engineer's Office
Trichinopoly 22 December 1883

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Kind
T.S.

J. F. Zander
Collector

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Here in N.

Abstract Estimate No. 180264

Abstract Estimate No. of 1862-63
 Bridges & Culverts on the Road from
 to Tanjore forming a Railway Station.

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Quantity.

Description of Work.

Rate.

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Brought forward
 Sundries & contingencies
 Total Estimate Surplus

3630 16

3694 6

11020

Constructing a Bridge of
 3 arches 16 feet span each
 in the 5th mile of the Tugue Road

5652 7/8 Cds of rough stone or dressed
 fabric in mortar per Cds

6180 1/2 Cds of brick work in mortar
 per Cds

2538 Cds of brick work in mortar
 per Cds

4728 Supl of plastering with
 of Chuanan per Cds

7178 Cds of masonry with stone
 per Cds

7178 Cds of masonry with stone
 per Cds

Setting over roadway & approaches
 with earth work

Excavation for bridge

Drainage

Contingencies

Total Estimate Surplus

376 2/3

11120

8440

Description of Work.

Rate.

Amount.

Amount of
Each Part.

Brought forward
 Constructing a Culvert of 12th mile
 6 feet span each in the 12th mile

Details for one Culvert

198 3/4 Cds of rough stone, or dressed
 fabric in mortar per Cds

280 3/8 Cds of brick work in mortar per Cds

1320 Cds of brick work in mortar per Cds

2605 Supl of plastering 1 Cds of
 Chuanan per Cds

603 Cds of masonry with stone
 per Cds

603 Cds of masonry with stone
 per Cds

Setting over roadway and
 approaches with earth

Excavation

Drainage

Contingencies

Sundries & contingencies

Rs. A. P.

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597 Public Works Dept.
 Proceedings of the Madras Government

Under date the 29th February 64

Read the following
 letter from the Dy. Supt. Engrs.
 P. Division.

Forwarding Estimates for
 giving increased waterway
 to certain Bridges in the
 Trichinopoly District

Resenter 1st Feb/64.
 No. 1769.

The Estimates submitted
 with this letter are for the follow-
 ing works:-

For increasing the waterway of
 certain Bridges & Construct-
 ing new Bridges & Culverts
 on the road from Trichinopoly
 to Tanjore Rs. 12,620

For increasing the waterway of the
 Bridges & Culverts on the road
 from Trichinopoly to Dindigul Rs. 7,530

For extending the Calingulah in
 the South Bank of the
 Weyardien Channel Rs. 4,760

The necessity for pro-
 viding these Bridges & Calingulah
 with increased waterway for the
 passage of heavy floods, was brought
 to the notice of Govt. in a letter
 from the Dy. Supt. Engrs. of 21st Dec/63.

[Signature]

[Signature]

[Faint handwritten notes and signatures on the left page, including 'Trichinopoly District' and 'Public Works Department']

1894, & the several breaches
therein reported were represented
to be due to the absence of
adequate means of escape. It
appears from Capt. Bean's
letter now received that since
the date of the last high
floods, the water on the
Trichinopoly & Tanjore road
stands in places as high as
the embankments themselves,
& as the drainage of a large
tract of country has to cross
this line, additional waterway
is represented to be required
between the 3^d & 12th miles.

The necessity & the
urgency of the works being ap-
parent, the Governor in Coun-
cil resolves to sanction the
estimates submitted, & to allot the
sum of Rs 8000 applied for,
from the Reserve funds to admit
of the commencement of
the works in the current official
year. The Government is in
a position to make this sum
available from the Reserve,
as it appears from Capt.
Bean's letter of 13th February/94

to 1891, that a like sum
will remain unexpended from
the allotment for the ex-
pansion of the water com-
munication ^{from Tondiar} to the Vellayur
river. The Budget for 1894/95
being closed, the works now
sanctioned cannot find a
place therein; but the neces-
sary funds will be granted
from the Reserve after 1st May
next, to allow of their works
being carried to completion.
It is desirable that
the estimates now under con-
sideration should be treated
separately, & the Supy Engr.
will report how much of the
grant of 8000 Rs now made,
it is proposed to spend upon
each.

W.B.

To The Supy Engr & Dy. Engrs 3 Reports & sketches
Cont. & And. & P. & A. & S.
Acct General & Dy. Engrs 1st March
Return the 3 Reports & sketches

4277 1864. Dupon
of Good for Kelly

4277 1864. Dupon
of Good for Kelly
2/29 May 1864

Estimate amounting to \$22
24910 for extending the Atlantic
in the cable line of the Navy.
condan' Charles & Co. including
District Inspector and \$2,800
attested from the Bureau to a
military commission of the
war in 1863/64.

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