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 (3) Initials of the Referencer 1/63

# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

*P.W.D.* DEPARTMENT

|          |          |        |
|----------|----------|--------|
| G.O. No. | 2181     | Press. |
| B.P. No. |          | Mis.   |
| Dated    | 4.9.1988 | 197    |

*Not to be folded or roughly handled*

4TH SEPTEMBER 1884, No. 2181 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.  
Civil Works.

READ—the following papers:—

No. 478 T.J.

Notes by the Superintending Engineer, VI Circle, on estimates for constructing a bridge across the Veerasholanaur on the cross road to join No. 48 road Rs. 14,000, and constructing a bridge across Palavaur at the junction of the cross road from No. 71 to No. 48, Rs. 5,360:—

The two estimates furnished are for constructing bridges across the Veerasholanaur and Palavaur rivers; as they are not accompanied by longitudinal and cross sections of the rivers, it is impossible for this office to judge whether sufficient waterway is allowed or not. But the

|                       |  |
|-----------------------|--|
| 2 Detailed estimates. |  |
| 2 Abstract "          |  |
| 2 Specifications.     |  |
| 2 Plans.              |  |

Local Fund Engineer states in his letter to the President that he has, in designing these bridges, taken for his guide bridges built across the same rivers below and above the proposed sites, and he has raised the height of piers 2 feet above that of the present bridge in the case of the first one as subsequent floods have shown the high water mark as shown in the plan.

The undersigned considers that the present estimates may be passed, but he is doubtful whether sufficient foundation has been allowed as no borings seem to have been made.

The rates appear reasonable.

KULITALAI,  
6th June 1883.

(Signed) A. T. FRASER, Major, R.E.,  
for Superintending Engineer, VI Circle.

From J. B. PENNINGTON, Esq., President, Local Fund Board, Tanjore, to the Superintending Engineer, VI Circle, dated 3rd July 1884, No. 1028.

With reference to your letter, No. 599 T.J., of the 25th June 1883, I have the honor to forward, herewith, copy of a

\* No. 292, dated 30th May 1884. letter \* from the Local Fund Engineer of the Western Range furnishing the information called for by you regarding the plans and estimates for constructing a bridge over the Veerasholanaur river at Madhiarjunam. The enclosures of your letter under reply are returned.

ENCLOSURE.

From A. W. HUNTER, Esq., Local Fund Engineer, to the President, Local Fund Board, Tanjore, dated 28th May 1884, No. 292.

In reference to your endorsement, No. 1310, dated 2nd July 1883, on the Superintending Engineer's, VI Circle, letter No. 599 T.J., dated 25th June 1883, I have the honor to forward, herewith, the estimate and plan for a bridge to be constructed across the Veerasholanaur river on the road from Madhiarjunam to Veppatur.

2. The different sections asked for as well as survey of the river, two miles above and two miles below stream, are also enclosed. I have given the formula used by me in making the various calculations, and have marked the hydraulic mean depth of river at each cross section.

3. The river bed is of sand and the nature of soil is the same as that of the Cauvery which runs alongside, the two rivers here being hardly one-fourth mile apart. The same foundation has been allowed as in the case of the Cauvery bridge already sanctioned. The plan is the same except in the height of piers.

4. The site chosen for the bridge is a fair one, and the trustees of the temple who have subscribed for its construction want it at this site close to the steps. The swami always crosses the river at this point when going to the Cauvery. The steps will be left above the bridge.

5. I request this letter may accompany the papers when sent to the Superintending Engineer.

Endorsement on the above.

No. 770 T.J.

- 1 Detailed estimate.
- 1 Abstract estimate for Rs. 12,800.
- 1 Specification.
- 1 Sketch of a bridge across Veerasholanaur at Aduthurai.
- 1 Survey and levels, 2 miles below and above the proposed site of the bridge.
- 1 Plan of bridge across Veerasholanaur.

Copy forwarded to the Chief Engineer, Public Works Department, with reference to his memorandum No. 1143 C., dated 18th June 1883.

TRICHINOPOLY,  
19th August 1884.

(Signed) H. R. MEAD, Lieut.-Col., R.E.,  
Superintending Engineer, VI Circle.

ORDER—dated 4th September 1884, No. 2181 W., Public Works.

The estimate, amounting to Rs. 12,800, for constructing a bridge across the Veerasholanaur river, on the road from Madhiarjunam to Veppatur in the Tanjore district, is sanctioned and registered as Local No. 33 W. of 1884-85.

(True Extract.)

Major, R.E.,  
Under Secy. to Govt., P.W.D.

To the Board of Revenue, with six enclosures.  
" Superintending Engineer, VI Circle.  
" Financial Department.

Exd. W. H. French.  
Spare Copies.

2181  
2

2

BUILDINGS AND ROADS.  
CIVIL WORKS.

Gobt. of (1884) Madras.

PUBLIC WORKS.

Dated September, 4th.

Recd.

Encl.

G.O., 4th Sept. 1884, No. 2181 W.

SEPTEMBER.

Bridge across the  
Veerasholanaur

Estimate for a — on the road from  
Madhiarjunam to Veppatur, in the Tanjore  
district, sanctioned.

No H-78 T.J

Kulitalai K1  
61 June 1883.

2181/37

Encls: 8.

Notes by the Superintending

2. Detailed Engineer's circle on estimates for con-  
struction.
2. Abstract striking a bridge across the Veera-  
sholanaur on the cross road to join  
No 48 Road Rs 14,000 and constructing  
a Bridge across Palavanur at the  
junction of the cross road from No 71  
to No 48 Rs 5,360.
2. Specifications
2. Plans.

The 2 estimates furnished  
are for constructing Bridges across the  
Veerasholanaur and Palavanur Rivers  
as they are not accompanied by  
longitudinal & cross sections of the  
rivers it is impossible for this office to  
judge whether sufficient waterway is  
allowed or not. But the Local Fund  
Engineer states in his letter to the Pre-  
sident that he has, in designing these  
bridges, taken for his guide bridges  
built across the same rivers below  
and above the proposed sites and

3

he has raised the height of piers 2 feet above that of the present bridge in the case of the 1<sup>st</sup> one as subsequent floods have shown the high water mark as shown in the Plan.

The undersigned considers that the present estimates may be passed but he is doubtful whether sufficient foundation has been allowed as no borings seem to have been made.

The rates appear reasonable.

Arthur W. Mason M. A. 1876  
for Sup<sup>d</sup> Engineer, Circle.

2181  
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IX

P.W.C. No. 4907

Know,

The Supr Engineer  
b: Circle

To,

The Chief Engineer  
P. W. D.

No 478 T.T

Dated 6: June 1883.

Enclos 8.

Bridge across the  
Veerasholanair on  
the cross Road to  
join No 45 Road +  
Bridge across Pala-  
vair at the junction  
of the cross Road  
from No 71 to No 45  
Road. —

Submits 2 esti-  
mates for construct-  
ing a —



Local Fund Engineer's Office  
Tanjore 28 May 1884.

No 292.

To

The President

Local Fund Board  
Tanjore.

Sir,

In reference to your order No 1310 dated  
2<sup>nd</sup> Inf/83 on the Supr Engr's b: circle letter  
No 599 T.T. dated 25 June 1883, I have the  
honor to forward herewith the estimate  
and plan for a bridge to be constructed  
across the Veerasholanair river on the  
road from Madhiargunam to Veppalur.

2. The different sections asked for  
as well as survey of the river two miles  
above and two miles below stream are  
also enclosed. I have given the formula  
used by me in making the various  
calculations and have marked the hy-  
draulic mean depth of river at each  
cross section.

3. The river bed is of sand and  
the nature of soil is the same as that  
of the bannery which runs alongside  
the two rivers here being hardly  $\frac{1}{4}$ <sup>th</sup>  
mile apart. The same foundation  
has been allowed as in the case of the  
bannery bridge already sanctioned. The

plan is the same except in the height of piers.

4. The site chosen for the bridge is a fair one and the trustees of the temple who have subscribed for its construction want it at this site close to the steps. The Swami always crosses the river at this point when going to the bannery. The steps will be left above the bridge.

5. I request this letter may accompany the papers when sent to the Sup<sup>r</sup> Engineer.

I have &c.

Signed/ A. W. Humber  
Local Fund Engineer

No 1028.

<sup>22</sup>  
Sampore, President's office  
30 July/84.

To The Superintending Eng<sup>r</sup>  
B circle.

Sir,

With reference to your letter no 5997.2 of the 25<sup>th</sup> June/83, I have the honor to forward herewith copy of a letter<sup>x</sup> from the Local Fund Engineer of the Western Range furnishing the

Rs 292  
30.5.84

3  
information called for by you regarding the plans and estimates for constructing a bridge over the Veerasholam river at Madhianjannam.

<sup>218/10</sup>  
The enclosures of your letter under reply are returned.

I have &c.

Signed/ J. B. Cunningham.  
President.

No 770 T.S.

Encls: 6.

1. Detailed estimate

1. abstract estimate

for Rs 12,800

1. Specification

1. Sketch of a

bridge across

Veerasholam

at Aduthurai.

1. Survey & levels,

2 miles below

& above the

proposed site

of the bridge

1. Plan of bridge

across veer-

asholam -

Copy forwarded to the Chief

Engineer P. W. D with reference to his

Memo No 1143 C dated 18<sup>th</sup> June/83.

 Lt Col R. B.

Sup<sup>r</sup> Engineer, B circle.

Trichinopoly }  
19<sup>th</sup> August/84 }

No 1143C 18.6.83.

From,

The Supr Engineer  
b: Circle

To,

The Chief Engineer

P. W. D.

No 770 T.J.

Dated 19<sup>th</sup> August 1884

Encl: b.

Bridge to be constructed  
across the Verasholan  
on the Road from  
Madhargunam to  
Seppalur —

Returns the Estimate  
for a — with the  
information called  
for —

If the rise of arches were made  
10 ft. it would doubtless be better, but  
of course that would necessitate an  
increase to foundations of approaches. It  
would be well too in my opinion to raise  
the springing level, but that too would  
entail extra work to approaches, &c.  
The rise being but 7 ft. I certainly think  
it would be advisable to have a letter  
to the abutments.

A great point is that 3 miles lower  
down the river there is a bridge of  
less height apparently 7 only 3 spans of  
35 ft. each. —  
All things considered, & the S.E. having  
passed the project in favour of, I  
think the Estimate may be sanctioned  
without comment.

CW.

27.8

Public Works Department, 1884-85.

Current No. 7038

Letter No. 770 T.J.

Dated the 19<sup>th</sup> August 1884

From the S.E. VI Circle (5)

NOTE OF REMARKS.

1. The accompanying plans  
and estimate for constructing  
a bridge across the  
Verasholan river  
on the road from Madh-  
argunam to Seppalur  
have been submitted  
with reference to No 5  
Memo. No 1143C of the 18<sup>th</sup> June  
1883. The amount of the  
estimate is Rs. 12,800.
2. The bridge is to be one  
of three segmental arches,  
each 40 ft. span and 7 ft.  
rise; two piers 22 ft. long,  
6 ft. wide and 10 ft. high;  
and two abutments,  
8 ft. wide, with four  
wing walls. Flooring with  
retaining walls has been  
provided between piers  
and abutments. SW

3. Report has not been submitted, and it is left to be assumed that the depth allowed to foundations, 9 ft., is sufficient - even though the bed of river is sand and the velocity of current during flood 3.9 feet per second. The plan shows the springing line of arches to be 43 ft. or 5" below H.F.L. - then as the afflux due to obstruction from bridge equals 4" 2", it follows that the surface of flood will be 9 1/2" above springing line. - V, or speed of current through arches, being 6 ft. per second. An examination shows the afflux worked out on the assumption that V may equal 6 ft. per second, but, subject to approval, this velocity is too high for masonry flooring.

4. Subject to approval it would be well if the springing line were raised at least 1 foot above its present level; if the rise of arches were increased to 10 feet; and if a buttress to each abutment between the wing walls, midway, were added. Might not rough stone aprons be attached with advantage to the flooring?

5. The working H.M.D. of the calculation submitted is the mean of the H.M.D. of cross sections Nos 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15. - No. 9 is the H.M.D. of cross section at site, and reads 8.46 ft.

6. The plans and estimate have been countersigned by the President of the L. & F. Board, Tanjore.

29<sup>th</sup> August / 84  
 JH

P. & B. of Madras

No 2181

PUBLIC WORKS DEPARTMENT.

2/8/84

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 4<sup>th</sup> Sept 84

Read the following

From the S. & F. Circle No 4787 of 26 June 83  
 " " " " " 770 J. J. D. 19 Aug 84.

5

The estimate amounting to Rs 12,800, for constructing a bridge across the Veerasholanam river, on the road from Madharjiman to Veppatur in the Tanjore district, is sanctioned registered as Local No 33 W. J. 22-85.

U.L.  
 1.9.84

To The Bd of Rev.  
 with 6 enclos  
 - S. & F. Circle  
 - Civil Dept

Dec 13/9/84

(Ch. Secy for Counter-instances)

2/11/84

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7 - 10/12  
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Govt. of (1884) Madras.

PUBLIC WORKS.

(2)

Date

5/9/84

Recd

Encl

GO. 4 Sep 1884, No. 2006

Bridge across the  
Pierasholam.

Let for a - on the  
road from Madras  
to Pappatur  
in the Tanjore Dist.  
Sanctioned

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IX

22/9/84