(1) பக்கங்களின் எண்ணிக்கை 28

(2) புதுக்கித் திருப்பிய நாள் 11/8/88

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W.D துறை

அரசாணை எண். 3395 N — அச்சகம்
மு. கோப்புத் தாள் எண். — பல்வகை

நாள் : 24.10.1888 — 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

ஆவண. கா-1—18,006—15-6-87.

1/3395

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From J. W. MARTIN, Esq., Executive Engineer, in charge IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 8th October 1888, No. 436-E.W.

At the request of the President, District Board, Salem, I have the honor to forward, for the sanction of Government, a plan and estimate, amounting to Rs. 58,500, for completing the Talavasal bridge across the Vasistanadi river at 41st mile on the road from Salem to Cuddalore, together with a report, specification for iron works, an enlarged plan showing the details of iron works, and duplicate abstract of the estimate.

2. It is proposed to adopt the type design No. 15 of iron bridges of 40 feet span, circulated with G.O., No. 2328 W., of 4th August 1888. The above report contains a precise abstract of the correspondence that has passed before, with reference to the work.

3. The plan and estimate have been passed by the District Board at its meeting held on the 21st September 1888, as will be seen from the enclosed copy of the District Board's resolution.

Note by the Chief Engineer, Public Works Department.

The plans and estimate of Rs. 58,500, for completing the Talavasal bridge in the Salem district, are recommended for sanction with the following remarks :—

(1) The girders should be all made the same length, viz., 41½ feet, which will allow 1 foot 6½ inches bearing for the widest span, and will give 3½ inches clear between the ends of the girders over the pier between the spans of 36 feet and 37 feet 7 inches.

(2) The flooring of asphalte and gravel might, with advantage, be replaced by one-inch planking laid diagonally and covered with tar and sand.

(3) The District Board should report the total expenditure on the bridge up to date, as the present estimate only provides for completing it.

(Signed) H. R. MEAD, Colonel, R.E.,
Ag. Chief Engineer, P.W.D.

20th October 1888.

ORDER—dated 24th October 1888, No. 3395 W., Public Works.

The estimate, amounting to Rs. 58,500, for completing the Talavasal bridge in the Salem district, is sanctioned.

2. The Superintending Engineer will report what amount can be spent on the work during the current official year, so that the Local and Municipal Department may be requested to provide the necessary funds.

3. Attention is drawn to the note by the Chief Engineer, Public Works Department, above recorded.

4. The sanction accorded in para. 1 of these Proceedings has been registered as Local No. 15 W. of 1888-89.

(True Extract.)

Captain, R.E.,
Under-Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with six enclosures.
" Examiner of Public Works Accounts,
" with the duplicate abstract estimate.
" Local and Municipal Department.

Exd. W. H. French.
Spare Copies

2/
339

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated October, 24th.

Recd. Encl.

G.O., 24th Oct. 1888, No. 3395 W.

OCTOBER.

Talavasal Bridge, Salem District

Estimate for completing the —, sanctioned.

No. 436
Mw

Supg. Engineer's Office, IV Circle,
Coimbatore 8th October 1888.

1P

3/3395

From

J. W. Martin Esq.,
Executive Engineer, in charge IV Circle.

To

The Chief Engineer,
P. W. Department.

Sir,

Enclosures. 7
1 Plan
1 Estimate
1 Report
1 Specification
1 Enlarged plan shewing details of iron works
1 Duplicate abstract estimate
1 Copy of Dist. Board's resolution.

At the request of the President District Board, Salem I have the honor to forward for the sanction of Government, a plan and estimate amounting to Rs. 58,500 for completing the Talavasal Bridge, across the Vasistanadi river at 41st mile on the road from Salem to Cuddalore, together with a report, specification for iron works, an enlarged plan shewing the details of iron works, and duplicate abstract of the estimate.

2. It is proposed to adopt the Type design No. 15 of iron bridges of 40 ft. span circulated with G.O. No. 2328 W. of 4th August 1888. The above report contains a precise abstract of the correspondence that has passed before, with reference to the work.

3. The plan and estimate have been passed

× Sent to Octy with 2702 W Bs 31-8-88

4/3395

passed by the District Board at its meeting held on the 21st September 1888, as will be seen from the enclosed Copy of the District Board's resolution.

I have the honor to be,

Sir,

Your most obedt servt,

L. W. Martin

Executive Engineer,

In charge Wardha.

P.W.C. No. 1027

From

The Executive Engineer
In charge 4th circle

No. 315 C d/11.2.84.
" 2604 W d/15.9.83
" 669.70 W d/20.3.84
" 168 E d/21.5.84
" 200 E d/29.5.84
" 213 E d/30.5.84
" 572 C d/19.3.85
" 764 C d/11.4.85
" 294 E d/30.6.85
" 358 E d/11.7.85
" 383 E d/30.7.85

Dated 8th } October/88
Recd }

No: 436
GW
Encls: 7

Talavasal Bridge

Forwarding for sanction of Government, plans and estimates &ca. of Rs: 58500 for completing the — across the Vasista Nuddy river at 41st mile on road from Salem to Cuddalore

5/3395

210

Note by the Chief Engineer P. W. D.

The plans and estimate of Rs. 58,500, for completing the Talavasal Bridge in the Salem District are recommended for sanction with the following remarks:-

(1) The girders should be all made the same length viz 41½ feet which will allow 1 foot 6½ inches bearing for the widest span, and will give 3½ inches clear between the ends of the girders over the pier between the spans of 36 feet and 37 feet 7 inches.

(2) The flooring of asphalte and gravel might, with advantage, be replaced by one inch planking laid diagonally and covered with tar and sand.

(3) The District Board should report the total expenditure on the bridge up to date, as the present estimate only provides for

completing it.

[illegible]
20/10/88

[illegible]

[illegible]
20.10.88

6/3395

Extract from the Proceedings of the District Board Salem, dated 21st September 1888.

Members Present.

G. MacWatters Esq. President.

Official Members.

M.R.Rs T. Gopalan Nayer Avgl. Rao Bahadur
Dy. Collector & Vice President

Non Official Members

M.R.Rs K. Srinivasa Row Garu Rao Sahib
" Nanjappayya Garu — do —
" S. Krishnasamy Mudr. Avgl. do.
" C. Vencatachariar Avgl. do.
" Hanakasabapathi Mudr. Avgl. do
" C. Durmalinga Chettiar Avgl. do
C. G. Lechler Esq. Yercaud
M.R.Rs A. Seshiengar Avgl. Rao Sahib
" T. Ramasami Iyengar Avgl. do.
" Parthasarathi Mudr. Avgl. do
" Nalakanta Mudr. Avgl. do
" Paramasiva Gounder Avgl. do
" Vencatassa Tanker Avgl. do
" Sabee Saheb Khan Saheb.

× × × ×

Read

7. Read letter from the Superintending Engineer 4th Circle, forwarding for Government Sanction plans with Specification Report and estimates amounting to Rs 58,500 (exclusive of Rs 14,040 for D.P.M. Supervision and Tools and Plant) for completing the Talavasal Bridge of 9 Spans, with Iron girders of Wrought Iron Pony Truss with pin connections.

Sanctioned and Submitted to Government for approval and with request that orders may be issued to have the bridge put up if possible within the Current Year.

× × × ×

(True Extract)

Signed/ G. Mac Watters.
President.

(True Copy)

[signature]
Executive Engineer,
In charge IV Circle.

7/3395

Enclosure No. 7 of a letter No. 436 EW of 8/10/88 from the Sr. 4th circle.

33952

R C
OTORY

8/3395

Public Works Department.

Current No. 10,275

Letter No. 436 E.W.

Dated 8th October 1888

From the Supg. Engr. IV Circle

NOTE OF REMARKS.

The estimate under review amounting to Rs 58,500 for completing Talavasal bridge across the Vaisitanuddy river on the road from Salem to Cuddalore is submitted for sanction.

The Talavasal bridge has been the subject of considerable discussion in consequence of the original design being faulty and the unsatisfactory manner in which the work was executed.

It is now proposed to adopt the pony truss form of girder as shown in drawing

No 15 of this type designs circulated with G.O. No 2328 W of the 11th August 1881 and to slightly raise the piers in order that the girders may be laid clear of the corbels, the bottom of the girder will then be 5.63' above H.F.L. but the plan shows it to be 5.83' above H.F.L.

plan shows 5.81'

A few of the rates are in excess of the rates given in the Schedule viz

Flashing 2 coats Rs 4 against Rs 2-8-0

Rough stone dry - Rs 6 against Rs 4-8-0

Earthwork - Rs 5 against Rs 3-15-3

If the rates given in the Schedule are adopted there will be a saving of Rs 708 in the amount of the Estimate.

The plans & Est. have been countersigned by the President of the Local Fund Board

[illegible]

9/3395 10275

Note by E.W.

The plans & Estimate of Rs 58,500 for completing the Talamual Bridge in the Salem District are recommended for sanction with the following remarks.

The Girders should be all made the same length viz 41½ feet, which will allow 1 foot 6½ inches bearing for the widest span, and will give 3½ inches clear between the ends of the girders over the pier between the spans of 36 feet and 37 feet 7 inches.

The flooring of asphalte & gravel might with advance be replaced by one inch planking laid diagonally & covered with tar & sand.

The District Board should report the total expenditure on the bridge up to date; as the present Estimate only provides for completing it.

[illegible]
15.12.[illegible]

No 15 of this type designs

2395

The Shears sh^d as suggested
to made all our shears
and 41" x 5" seems
the right length
As it would be best to
have it in ft I think
41 1/2 ft which would
give 3 1/2 inch shear at
the 4th Pier this sh^d
be sufficient

I do not like the
proposed Roadway
4" planking asphalt 1/2 inch
and 2 1/2 of gravel
The asphalt & gravel
would I consider both
break up
I sh^d prefer 4" planking
covered by 1" diagonal
(cross-ways) planking
over it this had to
be removed as it wears
and covered with tar
& sand

[illegible]

No 15 of this type designs

N
3395

			1..9½	
37..10	41..5	3..7	1..9½	3..7½
37..9	41..5	3..8	1..10	~~3..8~~
			1..10	3..4
38..5	41..5	3..	1..6	
			1..6	
36..	41..5	5..5	2..8½	4..2½
			2..8½	
37..7		3..10	1..11	4..7½
			1..11	
37..10	41..5	3..7	1..8½	3..7½
			1..8½	
38		3..5	1..7½	3..4
			1..7½	3..6
37..8		3..9	1..10½	
			1..10½	
38..3		3..2	1..7	3..5½
			1..7	

Minimum bearing – 1"..6

36	41..6"	5..6	2..9	
37..7	41..6	3..11	1..11½	4..8½

No 15 of this type designs

P.W.C. 10275 12/3395

The design for the girders &c being according to the type design recently received from the India Office, may be approved.

It is unfortunate that the piers have been built so as to give uneven spans; but I think it would be advisable to make all the girders of the same length and alter the amount of bearing accordingly.

The clear spans vary from 38' 5" to 36' the type design is 40' span from centre to centre of bearings, giving a girder of 41' 10".

Taking 1' 6" as the minimum bearing admissible, the girders may all be made 41' 5" in length.

Taking the most unfavourable case viz that of the adjacent spans of 36' and 37' 7" there will still be room left for expansion 4½" as shewn in the accompanying diagram.

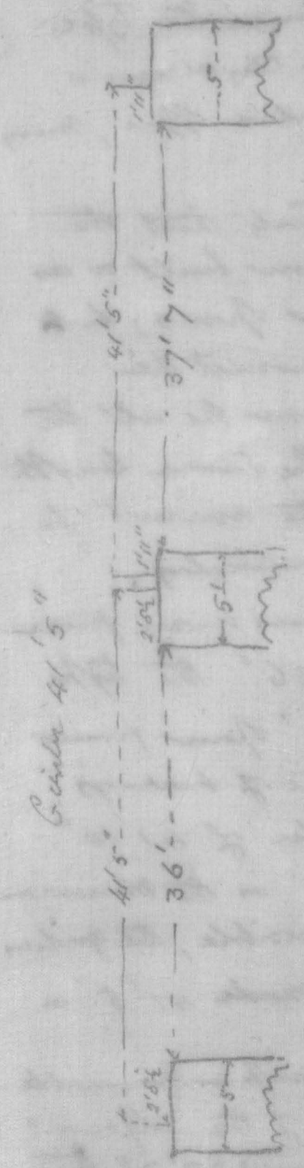
The masonry for the bridge has been almost completed, and the proposals may be approved

P.W.C.

Lord [illegible] Board

[illegible]

No 15 of this type designs



2'8½ + 1'11" = 4'7½" leaving 4½" clear between the ends of the girders.

N.B. Personally I think 14' roadway is insufficient for a long bridge; but the type designs only allow this width; and in the present case the piers will not allow greater width to be given to the roadway.

[signature]
15.10.88

Local and Municipal

13/3395

B & R
Works

PUBLIC WORKS DEPARTMENT.

31

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

From the Suptg. Engineer IV Circle H. E. No: 436 E. W. dt 8th October 1888.
Note by the Chief Engineer P. W. Department dt 20th October 1888

The estimate amounting to Rs. 58,500, for completing the Talavasal Bridge in the Salem District, is sanctioned.

2. The Suptg. Engineer will report what amount can be spent on the work during the current official year, so that the Local and Municipal Department may be requested to provide the necessary funds.

3. Attention is drawn to the note by the Chief Engineer P. W. Department above recorded.

4. The sanction accorded in para 1 of these Proceedings has been registered as Local No: 15 W of 1888-89.

PPH 24 Oct

Decd 6/11/88

To
The Suptg. Engr. IV Circle with 6 circles
" Examiner of P. W. Acts with the duplicate abstract estimate
" Local and Municipal Department
(To The Chief Secy for favor of counter-initials)

[signature]
20-10-88

22 Oct

[signature]
20/10/88

[signature]

14/3395

C.S. 20. x 88
Hw. 23. x 88
[illegible] 24. x 88

Govt. of (1888) Madras.

PUBLIC WORKS.

Dated 20/11

Recd. Encl.

G.O. 24 Oct 1888 No. 3395 W

Talavasal Bridge,

=

Salem Dt.

=

Est for completing the sanctioned.

95/6

[illegible] 26/10