(1) பக்கங்களின் எண்ணிக்கை 14

(2) புதுக்கித் திருப்பிய நாள் 8.6.90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W.D துறை

216

அரசாணை எண். —
மு. கோப்புத் தாள் எண். 555

அச்சகம்
பல்வகை

நாள் : 27- 2- 1891 198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

7 Shelf

ஆவண. கா-1—18,000—15-6-87.

555
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

From J. HANNAN, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works Department, dated Bezváda, 14th February 1891, No. 621 N.L.

I have the honor to forward, herewith, a revised estimate, with plans, &c., as per margin, amounting to Rs. 14,350, for constructing an iron girder bridge over the river near Venkatagiri on the 23rd mile of the Náyudupet-Venkatagiri road, together with a comparative statement, showing the differences between the original and revised estimates, and to request that sanction of Government may be obtained for the same in lieu of the one for Rs. 13,275, sanctioned in G.O., No. 1960 W. of 20th July 1889.

1 abstract estimate with wrapper sheet.
1 detailed estimate.
1 comparative statement.
1 tracing.
1 report.
1 specification.

2. The necessity for revision is due to a greater height of superstructure below M.F.L. being found necessary to admit of founding on rock and to its being found desirable to build with a better description of stone than was provided for in the original estimate, the stone it was proposed to build with being of the nature of boulders which were not considered suitable.

ORDER—dated 27th February 1891, No. 555 W., Public Works.

The revised estimate, amounting to Rs. 14,350, for constructing an iron girder bridge over the river near Venkatagiri on the 23rd mile of the Náyudupet-Venkatagiri road, is sanctioned in supersession of the estimate of Rs. 13,275 sanctioned in G.O., No. 1960 W., dated 20th July 1889.

2. This sanction has been registered as Local No. 37 W. of 1890-91.

(True Extract.)

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

To the Superintending Engineer, II Circle.
" Local and Municipal Department, with six enclosures.

Exd. A. D. Xavier.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated February, 27th.

Read. *Encl.*

G.O., 27th Feb. 1891, No. 555 W.

FEBRUARY.

Bridge over the river near Venkatagiri.

Revised estimate for an iron girder—, sanctioned.

Superintending Engineer's Office.

No. 621 N4.

II Circle, Bezvada.

Dated 14th February 1891.

From,

J. Hannau Esquire,

Superintending Engineer,

II Circle.

To.

The Chief Engineer,

P. W. Department,

Madras.

Enclosures: (Six)

1 Abstract Estimate with map for sheet
1 Set. Estimate.
1 Comp: statement
1 Tracing.
1 Report
1 Rectification
6

Sir,

I have the honor to forward herewith a revised Estimate, with plans &c as per margin, amounting to Rs. 14,350 for constructing an Iron Girder Bridge over the River near Venkatagiri on the 23 1/2 mile of the Nayudupet - Venkatagiri Road, together with a comparative statement shewing the differences between the original and revised Estimates, and to request that sanction of Govt may be obtained for the same in lieu of the one for Rs. 13,275 sanctioned in G.O. No. 1960 W. of 20th July 1889.

2.

2. The neeessity for revision is due to a greater height of super= =structure below M. F. L. being found neeessary to admit of founding on rock, and to its being found desirable to build with a better deseription of stone than was provided for in the original Estimate. The stone it was proposed to build with, being of the nature of boulders which were not considered suitable.

I have the honor to be,
Sir,
Your most obed.t Serv.t

J. Hannen

Superintending Engineer,
2d
II Circle.

13-291

W.C. No. 1776

From

The Superintending Engineer,
II Circle.

To

The Chief Engineer,
P.W. Department,
Madras.

20.7.89-1964 W

Dated 14th February 1891.

No. 621 N.L.

Encl: 6 as per list
as margin within

Bridge over River near Venkatagiri in the 2 3/4 mile of Nayadupeta-Venkatagiri Road — Forwarding plans & estimate for Rs 14,350 for Constructing an iron girder — for Govt. sanction

Public Works Department.

— Sanction
Technical Note. 19.2.91

Current No. 1776
Letter No. 621 N.L.
Dated 6th February 1891
From the Supdg. Engr. II Circle
Name of work Iron Girder Bridge
River Swarnamukhi
Road Nayadupeta-Venkatagiri
District Nellore
Taluk Venkatagiri Zamindari
Amount of Original estimate Rs 13,275
Do. Revised do. „ 14,350
G.O. sanctioning Original estimate No 1960
date 20th July 1889.
Difference { More Rs. 1075
Less „ —

Hydraulic Particulars.

Drainage area above site not given Sqr. Miles.
Bed fall per mile — do — Feet.
Discharge — do — C. ft. per sec.
Ordinary flood level 27.04
Maximum do. 30.04
Waterway provided up to maximum flood level not given but may be worked out by engineer — Sq. Feet.

Particulars of Construction.

Foundations Carry in depth from 1'6" to 2' with concrete of rubble stone in mortar.
Flooring Nil

... to be built with rubble stone in mortar 7' thick at bottom first upon foundations & tapering 4'-5' at top.

Abutments Do — each tapering from 7' feet at bottom to 6 feet at top

Dimensions of main girders 1½ × 35'

Estimated load per square foot 2 Cwt: & allow of Concentrated live loads of 6 tons at any point. vide para 3 of the Report.

Floor plates Harbourgs patent ¼ inch thick

Metalling Over platform 6" thick, between wings 9" thick.

Wingwalls 5' in width at bottom & 2½' at top, and 22' high above foundations

Approaches Apparently bank

Rates Plan as remarked

Contingencies about 3½ per cent

Petty Supervision 5 per cent

REMARKS.

The Excess is due to alterations in depth of foundations, Change of rates & to alterations in the iron work, the particulars of which are explained in the report.

It is stated that type design No 14 having been found unnecessarily heavy & the first in this order No 19647 dt/20.7.09 having explained that it is not incumbent upon any Dist. Board to adopt the type designs for iron bridges, the various iron Structures are usually supplied from Bombay even Designed for 9' roadway. It contains two main girders spaced about 6½' apart carrying a flooring of Harbourg's patent rolled wrought iron plating ¼" thick with buttress plating, wheel guard plating, and guard railings of angle iron Standards with gas tubes, on both sides.

The following rules are in excess of the rules given in the Schedule of rates for the written

333/5

Head Quarters Sub Dn
of the Nellore Dn for
the year 1889 being the
latest in the Office.

(1) Earthwork excavation
ordinary soil Rs 10 per
100 cft against Rs 4.

(2) Excavation in rocky
soil Rs 18 per 1000 cft
against Rs 12 -

It is however explained
that the rates in the
original Est: were much
less than those of the
current Official year,
and as the comparison
now made is with an
old data list, the rates
quoted may be accepted.

The plan & Est: have
not been countersigned
by the President as
the Lieut: Board & it
seems unnecessary that
the plan & Est: should
be returned to S. E.
for the purpose of
obtaining the countersignature
of that officer to them.

Cuff
18. 2. 91

12 Pr
Civil Works

PUBLIC WORKS DEPARTMENT.

No 555 W

A

PROCEEDINGS OF THE MADRAS GOVERNMENT.

27th Feb/91

555/6

READ the following

From the S. E. II Circle No 621 WL, dt/14. ii. 91.

the revised estimate amounting to Rs 14,350 for constructing an iron girder bridge over the river near Venkatagiri, on the 23rd mile of the Naidupet-Venkatagiri road, is sanctioned in supersession of the estimate of Rs 13,275 sanctioned in G.O. No 1960 W, dt/20th July 1887.

2. The sanction for bar-rage is cited as Local No 37 W of 1890-91.

By order,
[illegible]
21. 2. 91

To
The Secretary to Government
Local & Municipal Dept
with 6 enclosures.

C/3

S. E. II Circle
Local & municipal dept
with 6 enclosures.

Cn

Mej

CHIEF SECRETARY'S
22 FEB 91
GOVERNMENT OF MADRAS

555/7

4

21.11.91
25-11-91
27-2-91

1776

Govt. of 18 Madras.

PUBLIC WORKS.

Dated 27/2

Read. Rect.

G.O. 29 Oct. 91 No 5550

Bridge over the river near Venkatagiri.

Revised est for an iron girder ——, sanctioned.

7

60/3