

4726

Govt. of 1875 Madras

PUBLIC WORKS.

To

- The Insp. Dept.

Dated

Issued

Recd.

Encl.

G. O., August 1875, No. 2277

Nos. 110-111

Repairing the Wallajah Foot-bridge. — Estimate amounting to Rs. 1150 for — sanctioned for immediate execution, the expenditure to be met from savings later in the year. The Dtr. Eng. Presy., to revise in the meantime the Estimate for the Iron Girder Bridge & resubmit it with a view to funds being provided for it in

V.L. Shit 31 July

Recd. at Oct. 24 July

Proceedings of the Madras Government, Public Works Department,
6th August 1875.

No. 110. Read the following letter from Captain ROSS THOMPSON, R.E., District Engineer, Presidency, to Lieutenant-Colonel J. MULLINS, R.E., Officiating Chief Engineer and Secretary to Government, Public Works Department, dated Fort St. George, 20th July 1875, No. 1,756 :—

With reference to G. O., No. 1,577-A, dated 4th June 1875, I have the honor to submit, for sanction, a plan, specification and estimate, amounting to Rs. 21,730, for constructing wrought iron lattice girder foot bridge with wooden road-way, and to state that the structure is capable of withstanding the pressure which would be brought upon it were the platform closely packed with people.

2. An estimate, amounting to Rupees 2,800, for restoring the broken bay of the Wallajah foot bridge and repairing the other parts of the same is also herewith submitted for sanction.

3. The two estimates provide for everything necessary; the rates are reasonable and sufficient, and no supplementary works will be hereafter required.

No. 111. ORDER THEREON, 6th August 1875, No. 2,277.

CIVIL WORKS, No. 6-A.

THE estimate submitted for a lattice girder foot bridge in connection with the Wallajah Bridge appears to be rather extravagant. The District Engineer will consider whether the superstructure cannot be reduced in weight and cost. Planking of 2 inches thickness should be sufficient.

2. The repair estimate, it is observed, allows not only for rebuilding the foot bridge where broken but for rebuilding parapet walls of the masonry bridge and plastering great part of the work, and also for twelve cast iron lamp posts. If reduced by these items, the estimate will amount to Rupees 1,150.

3. The Honorable the Governor in Council observing that the demands on Provincial Funds are already heavier than can well be met, sanctions the repair estimate amounting to Rupees 1,150 for immediate execution, the expenditure being met from savings later in the year. The District Engineer will meantime revise the estimate for the iron girder bridge and resubmit it with a view to funds being provided in the Provincial Budget for 1876-77.

4. Arrangements will be made under directions by the Inspector-General of Police to prevent the foot bridge being crowded in future.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the Judicial Department. ✓

" Inspector-General of Police. ✓

" District Engineer, Presidency. ✓

" Controller of Public Works Accounts. ✓

Exd. E. C. Shunker.

Spare Copies

No 132 P 1875-76 of 20 July 1875

13 JUL 75

Estimate of the probable cost of a
Wrought Iron Lattice Girder Foot Bridge with
wooden roadway in lieu of the Wooden structure
which gave way at the Wallajah Bridge on the
occasion of Lord Hobart's funeral.

Particulars of Work Quantity Rate Per Amount Total

Angle iron $3 \times 3 \times \frac{1}{2}$ feet $\frac{178}{2057}$
Do joint straps $2 \frac{1}{2} \times 2 \frac{1}{2} \times \frac{3}{8}$ each
2 feet long at 10 $\frac{11}{21}$ 205
Top and bottom flange plates
 $12 \times \frac{1}{2}$ $\frac{90}{1800}$
Do Do web plate $9 \times \frac{1}{2}$ $\frac{267 \frac{1}{2}}{1350}$
ind flange plates $12 \times \frac{1}{2}$ $\frac{9}{180}$
Do Do web $12 \times \frac{1}{2}$ $\frac{9}{180}$
Lattice bars each $4 \frac{1}{2}$ ft long $4 \frac{1}{2} \times \frac{1}{2}$ $\frac{4}{133}$
Do $4 \frac{1}{2}$ ft long $4 \times \frac{1}{2}$ $\frac{8}{241}$
Do Do $3 \frac{1}{2} \times \frac{1}{2}$ $\frac{8}{212}$
Do Do $3 \times \frac{1}{2}$ $\frac{8}{180}$
Do Do $2 \frac{1}{2} \times \frac{1}{2}$ $\frac{6}{113}$
Joint cover plates for flanges
 $2 \times 12 \times \frac{1}{2}$ $\frac{12}{480}$
Do Do for web plates
 $2 \times 6 \times \frac{1}{2}$ $\frac{16}{320}$

Carried over $\frac{7451}{727628000}$ 20 July 1875

Brought forward 7457 7/76 931 6 1/2
 Distance pieces 3 1/2" square 1/2" thick
 between lattice bars 17. 5 30 2 3 120 1/2
 Rivets of 3/4" iron and 2" long 1200 600 6 225 0 0 1162 20
 Cost of 45 ft Girder Run 8186 1162 20 4404 0

Average weight and cost 5404 775 80

Average weight and cost 5990 859 83

Average weight and cost 6305 904 120

Average weight and cost 5810 833 107

Average weight and cost 5224 749 105

Carried Over 5286 53

V.L. Shurt 21 July

Brought forward 5286 53
 Average weight and cost 2504 646 40

Angle iron cross joists 8"x3 1/2"x1/2"
 12 feet long 7819 188

Angle iron pieces 8"x3 1/2"x1/2" and
 4 ft long built up in brick
 in chumour horizontally to a
 length of 2 1/2 ft 7863 96

Flat iron pieces 5"x1/2" for se-
 curing cross joints to main 7890 2
 Girders each 15 inches long

Rivets 3/4" iron and 3 1/2" long 200 174 6 65 4 1/2
 Bolts of 3/4" iron and 3 1/2" long 200 200 8 100 0 0
 Nuts 3/4" hexagonal 92 200 50 18 12 0
 Cost of 78 joints complete 26456 280 3310 8 0

Screw piles 20 ft long 10"
 outside diameter and 1" metal 2 4720
 15 ft 2 3540

Carried Over 8260 230 0 0 848 2 0 9427 4 3

Brought forward 848 2 0 9 4 2 7 1 3
 Screw piles 10 ft long 10" outside diameter and 1" metal } 2 23 60
 Top piles 10 ft long 9" 9" with flanges at bottom ends } 6 70 80
 Cast iron caps for piles } 6 20 16
 11456 230 ... En 1176 4 7
 Pile bolts 5" long 1 1/2" diameter 48 120 ... 8 ... 60 0 0
 Nuts hexagonal 1 1/2" 48 48 ... 3 ... each 9 0 0
 Cost of piles and caps 2093 6 7

Teakwood for Hand rails 230' x 1 1/4" x 6" 143 7/4
 Teakwood planking 230 feet long 13 1/2 ft wide and 4 inches thick } 1035
 1178 3/4 3 12 0 Cft 4420 5 0
 Wood screws 3/8" thick 4" long with square heads 195 ... 12 ... 146 4 0
 Cost of flooring 4566 9 0

Cart and coolie hire from Workshop to site of bridge } 66 2 8 ... En 165 0 0
 Carried over 16087 0 10

Brought forward 165 0 0 16087 0 10
 Tools and other implement day 1000 0 0
 1165 0 0
 17252 0 10
 Erection charges at 20 per cent 3250 6 7
 20702 9 5
 Contingencies at 5 per cent 1035 7 7
 Total Estimate - Rupees 21738 0 10

Presidency Workshops D. P. W.
 Chepauk
 12th July 1875

J. H. Manger
 General Suptl P. W. Workshops & Stores

P. W. Thompson Captuz.
 District Supt

Abstract of the foregoing Estimate

No. or Quantity	Description of Work	Amount
7	Longitudinal lattice Girders of different lengths and 4-6" deep	5932 9 3
78	Angle iron cross joists complete	3494 8 0
6	Cast iron screw piles: D:	2093 6 7
1178 3/4	Left of 4 inch planking for flooring and 6 inch for hand rails with wood screws for fastening complete	4566 9 0
	Cart and cooly hire from Workshop to site of Bridge - the whole weighing about 66 Tons	165 0 0
	Tools and other implements - say.	1000 0 0
		17251 2 10
	Erection charges at 20 per cent	3450 6 7
		20702 7 5
	Contingencies at 5 per cent	1035 8 7
	Total Estimate Rupees	21738 33

Capt. R. S. ...
 Presidency Workshops & ...
 12th July 1875
 Genl. Suplt P.W. Workshops & Streets

13 JUL 75

Specification to accompany
the Plan and Estimate of
a Wrought Iron Lattice Gir-
der Foot Bridge in lieu of
the wooden structure which
gave way on the occasion
of Lord Hobart's funeral

Amount of Estimate Rs 21738—

The Roadway of the Bridge con-
sists of 4" teakwood planking laid dia-
gonally over angle iron joists 12 feet
in length 8" deep and 3½" wide.

The inner ends of the joists are
supported by and bolted to short lengths
of similar angle iron built into the
face of the masonry Bridge and pro-
jecting about 18 inches.

The outer ends of the angle iron
joists are bolted to the lower flange
of the Lattice Girders 4'-6" deep which
butt together at and are supported by
a single row of 10" cast iron screw
piles six in number; each pile being
screwed

4'-6" deep 75

Rs 200 } July 1895

No 132 of 1895-96

Rs 4226/15

Estimate of a
Wrought Iron Lattice
Girder Foot Bridge
in lieu of the wooden
structure which
gave way at Ballagat
Bridge on the occasion
of Lord Hobart's
funeral amounting
to Rs 21738—

2/10/21/5

P.W. 4228 75.

W. } J. H. Munger
Genl. Supt. P. W. Workshops & Stores

Wm Humphreys Capt
District Supd

784

2	31.	35.	2190
2	31.	45.	2190
2	31.	54.	2248
2	31.	60.	2250

2248

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Archdeacon of the archdeacon

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At the 2 carrying 2800

2248
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 30
 12948

At the 2 carrying

20 July 1895

At the 2 carrying

20 July 1895

At the 2 carrying

At the 2 carrying

At the 2 carrying

At the 2 carrying

Recd at Oct 24 July 1895

At the 2 carrying

Dated 28th } July/75
Recd.

No 133 of 1875-76.

Mr. 4726
4/75.

Estimate
for repairing the
Wallajah Bridge
amounting to
Rupees 2800 —

G.O. 6 August/75
sub N-110.

DOCUMENTS IN FILE.

From District Engineer—*Presidency*

1 Covering letter No 1756 date of 20-7-75

1 Letter from Range Officer, No. , date

1 Detailed Estimate.

1 Abstract do.

1 Plan

1 Specification Report.

From Office—

"

Original sanction, No 15724 date 16-6-75
for detailed estimate preparation.

G.O. 6th August/75 N-227

Orders and Proceedings.	No.	Date.	Under P. W. D. G. O.	
			No.	Date.
P. W. Department	...		15724	16-6-75
Public do.	...			
Revenue do.	...			
Financial do.	...			
Military do.	...			

4726

No. 1.—ESTIMATE PARTICULARS.

Main Budget Head to which chargeable.

Provincial

Purpose of work as given by District Engineer.

Repairing & restoring Wallajah Bridge.

Original sanction for the preparation of the detailed estimate. Date and number sanctioning and Public Works Department.

P. W.
Order No. 1577 A of
4/6/75

Amount of present estimate and its district number.

Rs. 2800 No. 133

of 1875-76 - for repair

No. 21,730 for restoration No. 132

Budget head to which chargeable if sanctioned (in detail.)

Civil Works.
Communications

Provision has been made in the Budget of in anticipation.

(Yes or No.)

No

Funds can be made available during the current year.

(Yes or No, and state how in former case)

Not probable

Brought forward as urgent.

(Yes or No; and if former, state by whom.)

Not stated by
J. P. Eng.

Number on last revised list of works approved and brought forward in due order of precedence.

Not entered

No. Yes No.

No. 1756

From

The District Engineer,
Presidency

To

The Off. Chief Engineer
and Secretary to Govt.
M. Dept.

Sir

Enc.

1 Plan

1 Estimate

1 Specimen

1 Estimate for
repairs

With reference to G.O. No. 1577 dated 4th June 1875, I have the honor to submit for sanction a Plan Specification and Estimate amounting to Rs. 21,730 for constructing wrought-iron lattice girder foot bridge with wooden roadway and to state that the structure is capable of withstanding the pressure which would be

V. L. Shastri 31 July

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ing to Rs. 2800 for restoring
the broken bay of the
Wallajah foot Bridge and
also repairing the other
parts of the same is also
herewith submitted for
sanction.

The two Estimates
provide for everything
necessary, the rates are
reasonable & sufficient
and no supplementary
work will be hereafter
required.

For W. H. 2
20 July 1875

I have the honor to be
Yours most Obedt Servt
W. H. Munro Esq
District Engineer

W. H. 2
W. H. 20 July

From
The Dist. Engineer } (R.E. No. 1756 of 20th July 1875)
Presidency

The Estimate submitted for a Lattice Girder Foot Bridge in connection with the Wallajah Bridge appears to be rather extravagant. The Dist. Engr. will consider whether the superstructure cannot be reduced in weight and cost. Planking of 2 inches thickness should

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The repair Estimate, it is observed, allows not only for rebuilding the Foot bridge where broken, but for rebuilding parapet walls of the masonry bridge and plastering great part of the work, and also for 12 cast iron lamp posts. If reduced by these items, the Estimate will amount to Rs 1150

The Honble the Governor in Council observing that the demands on Provincial Funds are already heavier than can well be met, sanctions the repair Estimate amounting

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Arrangements will be made, under directions by the Inspector General of Police to prevent the foot bridge being crowded in future.

35-
3
Jud^l Dept. - 1
Inst Genl Police - 3
Secy - 4
Cm^r P.W.D. - 5
Mr. J. Coffey, Secy
to the Presid^y only 6/8/75
N^o att^{ch} Dated. 20-8-75