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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No.	4392 W	Press.
B.P. No.		Mis.
Dated	69. 11. 1878	197.

2147

Not to be folded or roughly handled

4392
1

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

19th November 1878, No. 4,392 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 208. From Captain R. R. E. BROCKMAN, R.E., District Engineer, Tanjore, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Tanjore, 8th November 1878, No. 2,658.

With reference to item No. 73 in the schedule of the probable requirements of the Madras Presidency on account of Imperial Works for 1878-79 under "salt" attached to G.O., of the 1st October 1877, No. 824 W, I have the honor to forward, for the sanction of Government, the

enclosed plans, specification report, and estimate, amounting to Rupees 8,700, for constructing an iron girder bridge over the extension of Vedarnem Canal on road No. 36.

2. In the aggregate amount of Rupees 30,300, sanctioned in G.O., No. 176, dated 21st July 1874, provision was made for the above bridge to the extent of Rupees 6,950; certain alterations appear to have been suggested in the masonry design by Colonel Roberts, the late Superintending Engineer, and approved by the then Chief Engineer in his memorandum No. 858, dated 4th November 1874.

3. Considering the extent to which the masonry bridges on and near the canal have suffered from climatic influence and with a view to longer durability, I approve of Lieutenant Romilly's suggestion of providing an iron girder bridge in lieu of the masonry one.

4. The accompanying report of Lieutenant Romilly forwarding plans, &c., for the above bridge gives in detail the other facilities in providing an iron bridge in the room of a masonry one. The plans, &c., have been countersigned by the Salt Commissioner in token of his approval, though he takes objection that such a large sum should be debited to his department whilst the advantages derived from the bridge by his department is believed by him to be comparatively small; but the large amount proposed to be spent on this girder bridge will compensate in a measure for the constant repairs that will have to be carried out if a masonry bridge were to be constructed, owing to its frequent wear on account of the damage done by the salt barges and by other boats to its haunches as the waterway would be in the case of a masonry bridge. A copy of the Salt Commissioner's letter deprecating such an outlay is herewith forwarded as requested by him for your perusal.

5. Though the estimate amount of this girder bridge is in excess of the original amount of Rupees 7,500, sanctioned by the Chief Engineer in the memorandum above quoted for a masonry bridge, yet the excess is solely due to the brick-work rate of 3 Annas allowed in this estimate, which cannot be avoided taking the locality, remote as it is, into consideration.

6. Under these circumstances I request that you will be so good as to move Government to accord their early sanction for the plans, &c., so that the work may be set in hand after the North-east monsoon is over, as a sum of Rupees 2,000 has been provided for this work in the Imperial Fund Budget for 1879-80.

From H. W. BLISS, Esq., Commissioner of Salt Revenue, to the Officiating District Engineer, Tanjore, dated Negapatam, 1st November 1878, No. 1,556.

I HAVE the honor to return herewith the enclosures to your letter No. 2,444, dated 14th October 1878, countersigned.

2. I have countersigned them because I presume from the entry of the bridge in the budget of the current year, which you inform me has been made, that the project of building this bridge has received the approval of Government. It appears to me, however, that to throw on salt funds the whole of the expense of building the bridge is hardly justifiable. I am also most doubtful whether it is justifiable to expend so large a sum as Rupees 8,700 from any funds on such a bridge, the road being one which, so far as I know, leads only to one small salt platform at Vedarniem and to the Collector's bungalow and to a small native village at Point Calimere, for convenient access to which across the canal it seems to me that very much more economical arrangements might easily be made. The Vedarniem Salt Division must be a dead loss as it is; I deprecate, therefore, the expenditure of any money on it which can be saved.

3. I request that when sending the estimates up to Government you will send this letter also.

From Lieutenant F. J. ROMILLY, R.E., Assistant Engineer, to the District Engineer, Tanjore, dated Nivalore, 28th September 1878, No. 363.

I HAVE the honor to forward a plan for a plate girder bridge to be built across the extension of the Vedarniem canal where it is crossed by the old road 36 from Vedarniem to Kodiacarni, as requested in your memorandum No. 2,109, dated 13th September 1878.

2. I asked permission to design a girder bridge in place of one wholly of masonry, as I think it is necessary to give more headway than can be given by an arch without raising the roadway considerably. The existing masonry bridges on the canal, except the one at Karungunny on road No. 26, which is very high, got much damaged about the haunches by bouts. The girders can be got down by sea from Madras *via* Thoppetorai up to the site of the proposed bridge. The original bridge designed by Mr. Leggatt, a single arch of 30 feet span, was estimated to cost Rupees 7,570. The present one comes to Rupees 8,800, supposing the rate for brickwork to be 2½ Annas as allowed in the former estimate, but, as a rate of 3 Annas is allowed on account of the locality, the actual estimated cost is greater.

3. No flooring has been provided as it is thought unnecessary there being scarcely any current. A site sketch has not been forwarded, as the position of the bridge is already fixed by the existing road.

4. If this design is approved, I have the honor to suggest that a similar one may be adopted for carrying the proposed road 86 across the canal at Velangunny, for which I expect shortly to submit plans and estimates.

No. 209. ORDER THEREON, 19th November 1878, No. 4,392 W.

THE Government decline to sanction an estimate of Rupees 8,700 for a bridge giving access only to a small salt platform and a little native village, arrangements for approaching which can be made at far less cost.

(True Extract.)

Colonel, R.E.
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fifth Circle.
" Revenue Department.

Encl. E. C. Shunker.
Spare Copies

BUILDINGS AND ROADS
CIVIL WORKS.

Govt. of (1878) Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,
FIFTH CIRCLE,
&c., &c., &c.

Dated November 12th,

Issued

Recd.

Encl.

G. O. 10th November 1878, No. 4302 W.

NOVEMBER
Nos. 208-209.

Bridge over the extension of Vedarani
Canal on Road No. 26, Tanjore District.
Declines to sanction an estimate for a

Buildings

No 2658

From

District Engineer's Office
Tanjore 8 November 78

4392
11

Captain R.R.E. Brockman R.E.
District Engineer, Tanjore

To

Colonel E.A. Ford R.E.
Chief Engineer ORW
Buildings & Roads.

Sir,

With reference to Item no. 73
in the Schedule of the probable require-
ments of the Madras Presidency on
account of Imperial Works for 1878-79
under "Salt" attached to G.O. of the
1st October 1877 no. 824, W I have the honor
to forward for the sanction of Govt.
the enclosed Plans, Specification, report
and Estimate amounting to Rs. 8700
for constructing an Iron Girder
Bridge over the extension of Vedarani
Canal on Road No. 26.

In the aggregate amount
of Rs. 30,300 sanctioned in G.O. No. 176
dated 21st July 1874 provision was
made for the above Bridge to the
extent of Rs. 6950. Certain alterations
appear to have been suggested in the

Masonry

Masonry design by Col. Roberts the
late Superintending Engineer & approved
by the then Chief Engineer in his memo
No. 858 dated 4 November 1874.

Considering the extent to which
the masonry bridges on and near
the Canal have suffered from
climatic influence and with a
view to longer durability, I approve
of M^{re} Comilly's suggestion of
providing an Iron Girder Bridge in
lieu of the masonry one.

The accompanying
Report of M^{re} Comilly forwarding
Plans &c. for the above Bridge, gives
in detail the other facilities in
providing an iron bridge in the
room of a masonry one. The
Plans &c. have been countersigned
by the Salt Commissioner in token
of his approval. Though he takes
objection that such a large sum
should be debited to his Department
whilst the advantages derived
from the bridge by his Department
is believed by him to be comparatively
small; but the large amount
proposed to be spent on this girder
bridge will compensate in a
measure for the constant repairs
that will have to be carried out
if

4392/2
if a masonry bridge were to be constructed
owing to its frequent wear on ac-
count of the damage done by the
Salt barges and by other boats to its
haunches as the waterway would
be in the case of a masonry bridge.
A copy of the Salt Commissioner's
letter deprecating such an outlay is
herewith forwarded as requested
by him for your perusal.

Thus the estimate amount of
this girder bridge is in excess of the
original amount of Rs. 7500 sanctioned
by the Chief Engineer in the Memo
above quoted for a masonry bridge.
Yet the excess is solely due to the
brick work rate of 3 annas allowed
in this estimate which cannot be
avoided taking the locality remote
as it is, into consideration.

Under these circumstances I
request that you will be so good as
to move Government to accord their
early sanction for the Plans &c. so that
the work may be set in hand after
the N.E. monsoon is over as a sum of
Rs. 2000 has been provided for this work
in the Imperial Fund Budget

f. n

for 1879-80.

I have the honor to be

sir

your most obedient servant

W. B. Adams, Captain &
District Engineer

Buildings

From No 12679

The District Engineer
Durgam

To

The Chief Engineer
Buildings.

No 2658

Dated 8 Dec 78

Recd 11

Re. C.

20. 1-10-77. No 8158.
21. 7-74. 176. 11/11
4-11-74. 858 memo.

Iron Guide Bridge

Forward for sanction
Plan & Estimate Rs 8700 for
— over the St. Louis
of Vadamam Canal
out No 36.

M 1556

From

Office of the Commr of Salt Revenue
on Circuit. Nagapattinam
Dated 1st November 78

H. W. Bliss Esquire
Commissioner of Salt Revenue

To

Captain R. R. E. Brockman Esq
Offg District Engineer, Durgam

Sir,

I have the honor to return
herewith the enclosures to your letter
No 2444 dated October 14, 1878. Countersigned.

2

I have Countersigned them
because I presume from the entry
of the Bridge in the Budget of the
current year, which you inform me
has been made, that the project of
building this bridge has received
the approval of Government. It appears
to me however, that to throw on Salt
Funds the whole of the expense of building
the bridge is hardly justifiable. I
am also most doubtful whether it
is justifiable to spend so large a sum
as Rs. 8700 from any funds on
such a bridge, the road being one
which, so far as I know, leads only

to

to one small salt flat form at Vedarniem,
and to the Collector's Bungalow and to
a small native village at Point
Calimere, for convenient access to
which across the Canal it seems
to me that very much more economical
arrangements might easily be made.
The Vedarniam Salt Division must
be a dead loss as it is. I deprecate
therefore the expenditure of any
money on it which can be saved.

3. I request that when sending
the estimates up to Government
you will send this letter also.

I have the honour

| Signed | Durmasow
for Commissioner of Salt Revenue

| Encopy |

W. S. S. S. S.

Captain R. R.

District Engineer Tanjore

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10

7

Enclosure in a letter
from the District Engineer
Dauyire to the Chief Engineer
Building, No. 2658
dated 8 Nov 78

12/11/78

Copy of letter from
Salt Commissioner
M/556 dated 10 Nov 78

No 363

No 3 Range Office
Camp Rivalore 28 Sept 1878

4392

From

The Officer in Charge
No 3 Range

To

The District Engineer
Dauyire

Sir,

I have the honor to forward
a plan for a plate girder bridge to be
built across the extension of the
Vedarniem Canal where it is crossed
by the old road 36 from Vedarniem
to Kodikarai as requested in your
Memo No 2109 dated 13 September 1878

I asked permission to design
a girder bridge in place of one wholly
of masonry as I think it is necessary
to give more head way than can be
given by an arch without raising
the roadway considerably. The existing
masonry bridges on the Canal, except
the one at Karungumy on road
No 26 which is very high, get much
damaged about the haunches by
boats. The girders can be got down
by sea from Madras, via Thoppetore
up to the site of the proposed bridge

The

The original bridge designed by Mr. Leggatt a single arch of 30 feet span was estimated to cost Rs. 7570. The present one comes to Rs. 8800 supposing the rate for brickwork to be $2\frac{3}{4}$ Annas as allowed in the former estimate, but as a rate of 3 Annas is allowed on account of the locality the actual estimated cost is greater.

No flooring has been provided as it is thought unnecessary there being scarcely any current. A site sketch has not been forwarded as the position of the bridge is already fixed by the existing road.

If this design is approved I have the honor to suggest that a similar one may be adopted for carrying the proposed road across the canal at Velangunny, for which I expect shortly to submit plans and estimates.

I have the honor to
Signed J. J. Cornilly, Lieut. Col.
Assistant Engineer

True copy

W. S. K. May Captain
District Engineer

Enclosure in a letter
from the District Engineer
regarding the Chief Engineer
Building, No. 2658,
dated 8th Nov 78

PM 12/6/78

Copy of Mr. Normilly's
Letter No 363 dated
28 September 78

N^o 4392 W Public Works Department
PROCEEDINGS OF THE MADRAS GOVERNMENT

Under date the 19th Nov 1878.
Read the following:—

From,

The District Engineer
Sampore

(M.E. No. 2658 of 8th Nov 78)

The Government decline
to sanction an estimate
of Rs 8,400 for a bridge
giving access only to a
small salt platform,
and a little native
village, arrangements
for approaching which
can be made at far
less cost.

Wt
15/11/78

Super. Engr. 5th Circle ✓
Rev. Departt. ✓

Diff. 3-12-78-

Wt

15/11

No. 2 District
 No. 34 Nagapattam (Dive)
 Itthapattam Taluk.
 Imperial
 Original works.
 Civil Buildings

4392
 3

Work Constructing an Iron girder bridge over
 the extension of Vadarani canal on Road No. 36.

Estimate by J. J. of 1878-79 Rs. 8700-

Quantity	Description of work	Rate Per Unit
90.	wells as per detail	at 20 " each 1800 "
14500 1/2	Cft. Brick in Chuanam	at " 3 " Cft. 2718 180
607 1/2	Sq. of Cutstone facing	at 14 " Rs. 759 6
24	Squares of Pointing	at 18 " Sq. 36 "
123 3/4	Cft. Teakwood brought up to top	3 " Cft. 371 4 "
429	Squares of asphalt flooring	} 20 " Sq. 85 12 9
	over Bridge 1/2 "	
15.16	Cyds of Graveling	at 38 " Cft. 53 1 "
	Baling	200 "
	Carried over	6245

Brought forward	60245
Excavating foundations	330
	6374 5
Indies	125 10 4
	6500
Girders & other details estimate	2200
<u>Total estimate Rupees</u>	<u>8700</u>

Signed, J. J. Connolly L.R.B.
Assistant Engineer

M. S. K. M. A. Captain C. C.
District Engineer Mysore

District Engineer's office
14 October 1898
M.S.K.M.

W. S. K. M.
Comptroller of Accounts

1/4496/78
Enclosure in a letter
from the District Engineer
Jaipur to the Chief Engineer
Buildings No 26587
1 In No: 2236/70
dated 8 Nov 1878

MS 12679/78

Estimated 8700 per
Constructing and
Gravel Bridge over the
Hussaini Vedaasani
Canal on Road No 36

Specification H 392
The Span is to be crossed by a
pair of plate wrought iron
girders as per detailed Plan
Supported on masonry piers, as
arranged in the Plan.
The foundations are
to consist of well plated as
shown in the Plan at 6' intervals,
and measuring 5' outside and
3'6" inside diameter. They are
to be built 4 feet high on a
wooden curb of country wood
of not less than 3" thickness, and
filled into a height of 4 feet
with concrete. Composed of 4
parts broken brick 1 part lime,
and 1 part sand, or such other
proportions as may hereafter be
found advisable. The Superstructure
is to be built of brick in Chunar.
The lime must be procured from
Mookhopet and all slaked

at the work. Great Care must be taken
that fresh water is used in mixing
the mortar. The low paths are to be
faced with granite or Coral Stone.
ashlar work & neatly pointed. The
brick work is to be well rubbed
and pointed.

On / Signed / J. J. Conolly, Lieutenant R.E.
Assistant Engineer, Singapore
Regimental Engineer's Office
Camp, Singapore
28th September 1898

Wm. Roberts
Captain R.E.
District Engineer, Singapore
14/10/98

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1496/78

Enclosure in a letter
from the Dist. Engineer
Major General Sir
Building, No. 2650
4th En. No. 2250/78
dated 8th Nov 78

12679/78
3161

Tanjore

Specification
report.

Ch. 1879

Govt. of (1878) Madras.

PUBLIC WORKS

To

Dated

Issued

Recd.

Encl.

20-11-00

G. O. 19th Nov 1878. No. 43924

Nos. 208 & 209

Bridge over the Extension
of Nedamangudi Canal
on Road No 36. Tanjore Dist.

Describes the construction
and estimate for a —