

(1) Number of pages 20.
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 (3) Initials of the Referencer lws ✓

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works. DEPARTMENT

G.O. No.	2566	W	Press.
B.P. No.			Mis.
Dated	2. 10. 1882		197.

Not to be folded or roughly handled

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2566

GOVERNMENT OF MADRAS

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

No. 13.

READ—the following letter from Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, Fifth Circle, to the Chief Engineer, Public Works Department, dated Chepauk, 1st September 1882, No. 2017 :—

Four detailed Estimates with Abstracts and Reports.
Four Plans.

I have the honor to submit for sanction estimates connected with the Buckingham Canal, viz. :—

	RS.
For improving the Washermanpetta and Tiruvatur Bridges	14,180
Improving the Salt Cotaar Bridge	13,000
Building Bridges over the Canal at Etamakula, Kistnapatam and Kottapatam, each Rs. 10,250	30,750
Making 40 siding Basins in the Canal north of Madras	38,760

2. The two bridges called the Washermanpetta, at $3\frac{1}{4}$ mile, and the Tiruvatur, at $5\frac{1}{4}$ mile, are exactly alike, having segmental arches giving a head way of $10\frac{1}{2}$ feet. It is intended to remove the brick arches, to raise the abutments, and to carry the the road upon iron lattice girders, allowing a head way of 11 feet 5 inches above mean sea level. The towing-path will be provided 3 feet wide, of planks supported by granite stones fixed into the abutment. It is proposed to have a temporary bridge of boats while the bridges are under alteration. The work at each bridge is estimated at Rs. 7,090.

3. The Salt Cotaar bridge is an old wooden bridge, at $1\frac{3}{4}$ miles; and gives a head way of only 7—8 feet above mean sea level. It is proposed to give a head way of 11 feet. The present wood-work to be removed; the two piers and abutments to be raised, and the road to be carried on iron girders. It is thus proposed to retain the present side spans of 30 feet; but to divide the centre opening of 50 feet by the intermediate support of cast iron piles.

4. At $91\frac{1}{4}$ mile a bridge is required at Kistnapatam, on the road to the town of Nellore; and at 173-7 and 178-4, bridges are required for the roads leading to Ongole. The two bridges at Kistnapatam and Etamakula are specified by the Collector of Nellore as of the greatest consequence to allow of cart traffic across the canal; and the third at Kottapatam is required to replace an old wooden bridge. It is proposed to build iron lattice girder bridges with a span of 43 feet and leaving a clear water way of 37 feet, 3 feet being allowed on each side for a towing-path. A head way of 11 feet 5 inches is given above high spring tide. The foundations are intended to be of concrete, and the abutments of brick in chunam. The three bridges are on the same design.

5. To allow of boats loading and unloading at the side of the canal it is proposed to have 40 basins, or recesses of 60 feet in width. These basins will be of different lengths, according to the requirements. Thus, there are 25 basins of the shortest length, 150 feet; ten of 300 feet; and five of 450 feet. The basins of 150 feet

are estimated to cost from 480 to 1,590 rupees: those of 300 feet, from 900 to 1,800 rupees; and those of 450 feet from 1,090 to 2,590 rupees. The bed of the basins will be at the level of the channel bed; and the berm at the tow-path level, or 3 feet above high spring tide.

No. 14.

ORDER—dated 2nd October 1882, No. 2566 W., Public Works.

The undermentioned estimates, amounting to Rs. 96,090, are sanctioned against the annual Budget grants to the Buckingham canal:—

	Amount of Estimate.	Register No.
(1.) Improvements to the Washermanpetta and Tiruvatur Bridges ...	Rs. 14,180	No. $\frac{127}{1}$ W. of 1882-83.
(2.) Improvements to the Salt Cotaar Bridge ...	13,000	" $\frac{127}{2}$ W. of "
(3.) Constructing Bridges over the Canal at Etamakula, Kistnapatam, and Kottapatam...	30,750	" $\frac{127}{3}$ W. of "
(4.) Making 40 siding Basins in the Canal, north of Madras ...	38,760	" $\frac{127}{4}$ W. of "

2. The attention of the Superintending Engineer is called to the following rates, which are in excess of the District Schedule:—

	Estimate Rate.	Schedule Rate.	Excess.
	Rs.	Rs.	Rs.
Laterite stone in chunam per 100 cubic feet ...	30	27	3
Cast iron for girder beds per ton ...	250	180	70

3. These sanctions have been registered as Provincial Nos. $\frac{127}{1, 2, 3, 4}$ W. and classified as 33 Irrigation and Navigation, Works for which Capital and Revenue Accounts are kept, Capital Works.

(True Extract.)

Lieut.-Col., R.E.,
Ag. Under Secy. to Govt., P.W.D.

To the Superintending Engineer, Fifth Circle, with four enclosures.
" Examiner, Public Works Accounts,
with four duplicate Abstract Estimates.
" Chief Engineer for Irrigation.
" Board of Revenue.

Exd. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of Madras
PUBLIC WORKS.

Dated October, 2nd.

Recd.

Encl.

G.O., 2nd Oct. 1882, No. 2566 W.

OCTOBER.
Nos. 13-14.

Buckingham Canal.

Estimates amounting to Rs. 96,690 for
constructing certain Bridges and siding Basins
on the —, sanctioned.

2017-1-9-82.

Before initialling the proposed
G.O., I should like to be
informed whether any ^{3/4}
minimum headway
(in feet & inches above
some datum) has been
fixed for bridges over
the Canal.

In the proposals now made,
I see that a headway of
11' 3" is the given in
one case; — and if
only 11' in another.

R. I have seen G.O.
1536 W of 30th June 80.
No limit has been
fixed. The lowest
bridge has recently
been stated to be 6' 3"
above water level.

R.S. 189

Current No. 5919

Letter No. 2017

Dated the 1st Sept^r 1882

From the Supt. Eng. Fifth Circle.

NOTE OF REMARKS.

The Estimate with Plans & Reports for Improvements to the Buckingham Canal amounting to Rs. 96,690 are as follows,

1st For improving the Madhavapur & Divichayur bridges Rs. 14,100.

2nd Improving the Salt Cakew bridges Rs. 13,500.

3rd Building bridges across the Canal at Erumakko, Kishnapetam, & Kothupetam each Rs. 10,250, Total for 3 bridges — Rs. 30,750.

4th Making 40 siding basins in the Canal, north of Madras — Rs. 38,760.

The Estimates provide for Earth Work, Dressing, Lumping, Lifting &c., including Masonry Works.

The following Rates are
by in

in excess of the District
Schedule.

Particulars.	District Estimate.	District Schedule.	Difference.
Lateral stone in Chinnam Pura Ept.	Rs. 30	Rs. 27	Rs. 3
Cast iron postpinders less 1/2 Ton	250	180	70

12/2
6/9/82

C. No. 5919

5
2566

P. W. Secretariat.

Note by Budget Section.

Works connected with the Buckingham Canal	Remarks and References.	
Improving the Washermanpetta and Luvaturu Bridges		Rs. 14,180
Improving the Pall-Cottar Bridge		13,000
Constructing Bridges over the Canal at Ktunnakola, Kistna- potam and Kottapalem at Rs. 10,250 each		30,750
Making 400 Riding basins in the Canal, north of Madri		38,760
	Total Rs.	96,690

Fund Provincial finances (Imperial)

Service Head 33. Irrigation & Navigation for the
for which Capital & Revenue A/c are kept.
Departmental Head Capital A/c No. 11.

Amount of estimate	Rs. 96,690
Expenditure in previous year	" "
Allotment in current year	" "
Balance required to complete	96,690

Total Rs. 96,690

Note of available funds.

No funds available.

R.P.

CH
Budget Clerk.
879

Note by Budget Section.

N^o. 2017. Sup^d Engrs Office 5 Roads
Shewk 1st September 1882
6/256

From Col^l H. L. Prudergast B.E.
Superintending Engineer
To The Chief Engineer
D.P.W.

Sir I have the honor to submit
Enclosures 8 for sanction Estimates connected
with the Buckingham Canal viz
for improving the Washermanputta
and Trivethiyur bridges. Rs 14,180
Improving the Salt Cottar bridge. 13,000
Building Bridges over the
Canal at Kurnikkola, West
-mapalam and Kottapattam
each Rs 10,250 30,750
Making 40 siding basins in the
Canal North of Madras 38,760

2. The two bridges called the
Washermanputta at $3\frac{1}{4}$ mile, and the
Trivethiyur at $5\frac{1}{4}$ mile, are exactly
alike, having segmental arches
giving a head way of $10\frac{1}{2}$ feet.
- S

It is intended to remove the brick arches, to raise the abutments, and to carry the road upon iron lattice girders, allowing a head way of 11 ft 5 inches above mean sea level. The towing path will be provided 3 feet wide, of planks supported by granite stones fixed into the abutment. It is proposed to have a temporary bridge of boats while the bridges are under alteration. The work at each bridge is estimated at Rs. 7000.

3. The Salt Cotton bridge is an old wooden bridge, at $1\frac{3}{4}$ miles, and gives a head way of only 7-8 feet above mean sea level. It is proposed to give a head way of 11 feet. The present wood work to be removed,

the 2 piers and abutments to be raised, and the road ^{to be} carried on iron girders. It is thus proposed to retain the present side spans of 30 feet, but to divide the central opening of 50 feet, by the intermediate support of cast iron piles.

4. At $9\frac{1}{4}$ miles, a bridge is required at Krishnapatnam, on the road to the town of Nellore, and at 173-7, & 175-1, bridges are required for the roads leading to Ongole. The 2 bridges at Krishnapatnam and Chamakula are specified by the Collector of Nellore, as of the greatest consequence, to allow of cart traffic across the canal, and the third at Kottapattanam is required to replace an old wooden bridge. It is proposed to build iron lattice girder bridges with a span of 43 feet, and leaving a clear water way

N. 2017

From

The Sup^d Engrs
5th Circle

To

The Chief Engrs
D. P. W.

Dated 1st } September
Recd. } 1882.

Enclosures 8.

Buckingham Canal

Submits for
sanction certain es-
timates connected
with the

MS 28.9

Am 20/9 R. H. 26/9
only 1/9

N. 2566

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 2^d October/82

Read the following

From the Sup^d Engrs 5th Circle N. 2017 of 1st Sept/82

2566

The undermentioned
Estimates, amounting to Rs
96,690, are sanctioned
against the annual Budget
grants to the Buckingham
Canal:—

Amount of
Estimate
Rs.

Register No.

(1) Improvements to the Washers

Manupetta and Tiruvattu
Bridges

14,180

No 127^w of 1882-83

(2) Improvements to the Salt

Coastal Bridge

13,000

No 127^w of 1882-83

(3) Constructing Bridges over the

Canal at Etambakula,
Kristnapattam, + Kottapattam

30,750

No 127^w of 1882-83

(4) Making 40 Siding Basins in

the Canal north of Madras

38,760

No 127^w of 1882-83

2. The attention of the
Sup^d Engrs is called
to the following rates, which
are in excess of the District
Schedule:—

Laterite

Laterite stone in Chunam per 1000 ft. ---	Estimated rate Rs	Schedule rate Rs	Excess Rs
	30	27	3
Cast iron for girder beds per ton ---	250	180	70

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2566

3. These functions have
been registered as Provincial
Nos. 127, 1, 2, 3, 4, and
classified as 33 Irrigation
and Navigation, works for
which Capital and Revenue
accounts are kept, Capital
Works.

159 82

Passed
7/10

To
The Supy: Engr: Hyderabad
with 4 Enclos.
" Examiner P.W.A.
with 4 dupls. abt.
" Chief Engr: for Engrs.
" Board of Revenue
+ 4 plans + a detailed
estimate

only 11/7 Cdn. 20/9 1888

5919.

Govt. of (1882) Madras.
PUBLIC WORKS.

Dated

Recd.

Encl.

G. O. 2nd Oct. 1882, No. 2566 (11).

Nos.

13 - 14

McKinnans Canal

and to the 96, 690

Admiralty for County
Cork in 18 Bridges and
Siding Basins on the
Cautioned

2/10

203/10

Entd. in Receipts Reg.