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# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

*P. W. D.* DEPARTMENT

|          |                  |            |
|----------|------------------|------------|
| G.O. No. | <u>2421.W</u>    | Press.     |
| B.P. No. |                  | Mis.       |
| Dated    | <u>18.9.1882</u> | <u>187</u> |

Not to be folded or roughly handled

24121  
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.  
Civil Works.

No. 142.

READ—the following letter from Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, Fifth Circle, to the Chief Engineer, Public Works Department, dated Chepauk, 21st August 1882, No. 1909:—

4 Estimates with Abstracts and Reports. I have the honor to submit estimates  
32 Sheets of Sections. for improvements to the Buckingham Canal, viz.:—

|                                                                                                                                         |          |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| From Jonagapoliem, at 44 miles, to Dugarápatnam river, at 65 miles 5 furlongs ...                                                       | rs.      |
| For a portion of the reach of the canal between the Pennér and Paidaru rivers, or from 116 miles 7 furlongs to 119 miles 3 furlongs ... | 1,35,765 |
| For a second portion of the same reach, beyond the Ramateertham diversion, or from 120 miles 1 furlong to 122 miles 6 furlongs.         | 11,145   |
| For a portion of the reach between the Paidaru and Chippaleru rivers, or from 126 miles 7 furlongs to 131 miles 7 furlongs ...          | 20,000   |
|                                                                                                                                         | 25,900   |
| Total ...                                                                                                                               | 1,92,810 |

2. From Jonagapoliem the west bank is exposed to the wash of the Pulicat lake as far as Royadoroovoo in the 58th mile, and it runs through a backwater on to Dugarápatnam. The bank is proposed to be made up to the level of 26.66 or 4 feet above high flood level; and the tow-path is fixed at 21.5, or 3 feet above ordinary spring tide; while the bed is to be lowered so as to be 3 feet below low tide level. The bank is to have a top width of 6 feet. This work will cost more than the ordinary rate, because the earth will have to be brought over from the opposite side of the canal. On the east side the coast line is safe from damage from the sea, and the bank is kept to the tow-path level.

3. For  $2\frac{1}{2}$  miles beyond 116 miles 7 furlong the eastern side of the canal is exposed to danger on account of the irregularity of the ridges of sand; it is therefore proposed to raise the east bank of the canal to 4 feet above high flood level. On the western side there is no liability of flood disturbance, and the bank is to be brought to tow-path level only, or 3 feet above spring tides.

4. The line of canal requires to be improved from 120 miles 1 furlong to 122 miles 6 furlongs by clearing the section to the standard dimensions and by embanking. The east bank in this part is not liable to injury from the sea, and will therefore be kept at the level of the towing-path.

The west bank for 7 furlongs will be made up to the same level, but for the next 6 furlongs it must be raised to the full height of 4 feet about highest flood on account of the bank being exposed to the Paidaru swamp.

5. From 126 miles 7 furlongs the east bank of the canal requires to be raised to the full height of 4 feet above highest flood for 5 furlongs, there is then high ground and the bank will not be raised above the tow-path level up to 128 miles 7 furlongs. For the next 7 furlongs the full height is again required, and from 130 miles 6 furlongs to 131 miles 7 furlongs the bank can be kept on the tow-path level.

On the west side for  $2\frac{1}{2}$  mile the bank has to be raised to full height, and from 129 to 131 miles 7 furlongs the lower level of tow-path is sufficient.

The inner slopes will be turfed and the standard dimensions are given for the section of the canal.

No. 143.

ORDER—dated 18th September 1882, No. 2421 W., Public Works.

The undermentioned estimates, amounting to Rs. 1,92,810, for improvements to the Buckingham Canal, are sanctioned against the annual grants to the division:—

- |                                                                                                                                                     |                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| (1) From Jonagapohiem, at 44 miles,<br>to Dugarápatnam, at 65 miles<br>5 furlongs                                                                   | Rs.<br>1,35,765, Register No. 109/1 W. of 1882-83. |
| (2) For a portion of the reach of the<br>canal between the Pennér and<br>Paideru rivers, or from 116<br>miles 7 furlongs to 119 miles<br>3 furlongs | 11,145, " " 109/2 W. of "                          |
| (3) For a second portion of the same<br>reach beyond the Ramateer-<br>tham division, or from 120 miles<br>1 furlong to 122 miles 6 fur-<br>longs    | 20,000, " " 109/3 W. of "                          |
| (4) For a portion of the reach between<br>the Paideru and Chippaleru<br>rivers, or from 126 miles 7 fur-<br>longs to 131 miles 7 furlongs.          | 25,900, " " 109/4 W. of "                          |

2. These sanctions have been registered as Provincial Nos.  $\frac{109}{1, 2, 3, 4}$  W. of 1882-83, and classified as 33, Irrigation and Navigation, Works for which Capital and Revenue Accounts are kept, Capital, Works.

(True Extract.)

Under Secy. to Govt., P.W.D.,  
Irrigation Branch.

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

Exd. S. T. Austin.  
Spare Copies

9502/2

BUILDINGS AND ROADS.  
CIVIL WORKS.

Gobt. of (1882) Madras.  
PUBLIC WORKS.

Dated September, 18th.

Recd.

Encl.

G.O., 18th Sept. 1882, No. 2421 W.

SEPTEMBER.  
Nos. 142-143.

Buckingham Canal.

Estimates amounting to Rs. 1,92,810 for  
improvements to the — in certain places,  
sanctioned.

Public Works Department, 1882-83.

Current No. 5670.

Letter No. 1909.

Dated the 21<sup>st</sup> August 1882.

From the Supg Engr Fifth Circle.

NOTE OF REMARKS.

The Estimates with Reports  
& Sections for improvements  
to the Buckingham Canal.  
Amounts to Rs 192810. as follows.

1. From Sonagapoli to  
44 miles to Durgam,  
- Patam river at 65 m.  
5 fur — Rs. 135,765.
2. For a portion of the reach  
of the Canal between  
the Pannai & Panderen  
rivers, or from 116 miles  
7 fur. to 119 m. 3 fur — " 11,145
3. For a second portion of  
the same reach be-  
- yond the Ramateer  
- than division, or  
from 120 m. 1 fur to 122.  
m. 6 fur — " 20000.
4. For a portion of the reach  
between the Panderen &  
Chippaluru rivers, or  
from 126 miles 7 fur to  
131 m. 7 fur — " 25900.

Total Rs. 192810

The Estimate provides for  
Earth work, Clearing silt, cutting  
in bank, sectioning the  
Canal to standard dimensions  
as follows — Bottom width 20 ft.  
Slopes 4 to 1 to low water level.  
Which is 3 ft. above high spring  
tide

tide level; two path 6ft  
width, sloping 2 to 1, across  
15 ft, when ground level is  
below two path level, Bed of  
canal 3ft below L. R. T. &  
The banks will be 6ft top  
width sloping 2 to 1 inside  
& 3 to 1 outside. See fig  
slopes & planting.

The Pales District line  
is in accordance with the District  
Schedule -

30<sup>th</sup> August 82

*[Signature]*

C. No. 5670

2/12/82

P. W. Secretariat.

Note by Budget Section.

| Work                                                                                                   | Remarks and References. | Rs     |
|--------------------------------------------------------------------------------------------------------|-------------------------|--------|
| Improvements to the Buckingham Canal - viz                                                             |                         |        |
| 1. From Jonagapottam at 46 miles to Durgaraypatam pier at 65-5 -                                       | in 7                    | 135760 |
| 2. For portion of the reach of the Canal between the Annais and<br>Paiyem piers or from 116-7 to 119-3 |                         | 11400  |
| 3. For a second portion of the same reach beyond the Annaturtham<br>Division or from 120-1 to 122-6    |                         | 20000  |
| 4. For a portion of the reach between the Paiyem & Chippaluru piers or<br>from 126-7 to 131-7          |                         | 25900  |
|                                                                                                        | Total Rs                | 192870 |

Fund Provincial

Service Head 33. Irrigation & Navigation - works for which  
Capital Revenue Acct. are kept. Capital works.  
Departmental Head Capital - works "

Amount of estimate Rs 192,870

Expenditure in previous year "

Allotment in current year "

Balance required to complete 192,870

Total Rs... 192,870

Note of available funds.

The Superintending Engineer does not apply for funds.

2/9/82

*[Signature]*  
Budget Clerk.

SUPERINTENDING ENGINEER'S OFFICE,

5TH CIRCLE, MADRAS,

Chepauk, 21<sup>st</sup> August 1882.

No. 1989

From

THE SUPERINTENDING ENGINEER,

5TH CIRCLE,

To

THE

Chief Engineer  
S.P.W.

SIR,

I have the honor to sub.

Enclosures 36.

4 Estimates  
with abstracts  
& reports  
& sheets of sections

mit estimates for improvements  
to the Buckingham Canal viz

From Joragapoliem, at 44 miles  
to Durgavaram River at 65-5. Rs. 135,750.

For a portion of the reach of the Ca-  
anal between the Pennair and  
Paidera Rivers, or from 116-7 to 117-8. 11,445

For a second portion of the same  
Reach, beyond the Pannai branch  
diversion, or from 120-1 to 122-6. 25,000

For a portion of the Reach between  
the Paidera & Chippalera Rivers  
or from 126-7 to 131-7. 25,900

Total Rs. 1,92,810

2. From Joragapoliem, the West bank  
is exposed to the wash of the Pulicat  
lake

Note by Budget Section.

24/11/82

lake as far as Doya does over in the 5<sup>th</sup> mile, and it turns through a back-water on the Duryorofatam. The bank is proposed to be made up to the level of 26.66 or 4 feet above high flood level; and the tow path is fixed at 24.5 or 3 feet above ordinary spring tide; while the bed is to be lowered so as to be 3 feet below low tide level. The bank is to have a top width of 6 feet. This work will cost more than the ordinary rate, because the earth will have to be brought over from the opposite side of the Canal. On the East side the coast line is safe from damage from the Sea, and the bank is kept to the tow path level.

3. For  $2\frac{1}{2}$  miles beyond <sup>m</sup> 16-7, the Eastern side of the Canal is exposed to danger on account of the irregularity of the ridges of sand; it is therefore proposed to raise the East bank of the Canal to 4 feet above high flood level. On the Western side there is no liability of flood disturbance, and the bank is to be brought to tow path level only, or 3 feet <sup>above</sup>

above spring tides

4. The line of ~~Canal~~ <sup>high</sup> requires to be improved from 120.1 to 122.6 by clearing the section to the standard dimensions, and by embanking. The East bank in this part is not liable to injury from the sea, & will therefore be kept at the level of the towing path.

The West bank for 7 furlongs will be made up to the same level; but for the next 5 or 6 furlongs it must be raised to the full height of 4 feet above highest flood, on account of the bank being exposed to the Persian Swamps.

5. From 126.7 the East bank of the Canal requires to be raised to the full height of 4 feet above highest flood for 5 furlongs. There is then high ground & the bank will not be raised above the tow path level up to 128.7. For the next 7 furlongs the full height is again required, and from 130.6 to 131.7 the bank can be kept on the tow path level.

On the West side for  $2\frac{1}{2}$  miles the bank has to be raised to full height; and from 129 to 131.7, the lower level of tow path is sufficient.

The inner slopes will be turfed and the standard dimensions are given for the section of the Canal.

Canal

I have the honor to be

Sir

Your Obedt Servt

Wm Sander

Superm<sup>g</sup> Engr<sup>s</sup>  
5<sup>th</sup> Circle.

From

THE SUPERINTENDING ENGINEER,

5TH CIRCLE,

To

THE Chief Engineer  
P. W. Deptt

Dated

21<sup>st</sup> August 1882.

Recd.

ENCLOSURES.

36.

No. 1909.

Buckingham Canal.

Submits for sanc-  
tion estimates for im-  
provements to the

Oct 12. 9

Gr. 11/9 R13/9  
only 5/9. Lc 18/9

No. 2421 W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 18<sup>th</sup> Sept 82

Read the following:—

From the Suply. Engineer Fifth Circle A.E. No. 1909 of 21<sup>st</sup> August/82

The undermentioned  
estimates, amounting to Rs.  
1,92,810, for improvements  
to the Buckingham Canal,  
are sanctioned against the  
annual grants to the Division

(1) From Jonagapoliem, at 44 miles  
to Dugaraypatam at 65 miles 5 furlongs Rs 1,35,765---

Register No. 109 W of 82-83.

(2) For a portion of the reach of the Canal  
between the Pennair & Sairam rivers or  
from 116 miles 7 furlongs to 119 miles 3 furlongs Rs 11,115---

Register No. 109 W of 1882-83.

(3) For a second portion of the same reach  
beyond the Ramateetham division or from  
120 miles 1 furlong to 122 miles 6 furlongs Rs 20,000---

Register No. 109 W of 1882-83.

4. For

6) For a portion of the reach  
between the Gaidoru & Chippaluru  
rivers or from 126 miles 7 furlongs  
to 131 miles 7 furlongs ... Rs 25,900

Register No. 109 of 1882-83

2 These Sanctions

have been registered, as

Provincial Nos. 109  
1. 2. 3. 4

of 1882-83 and classified

as 33 Irrigation and Naviga-

tion, works for which Capital

and Revenue Accounts are

Kept, Capital, works.

Cy  
11.9.82

115  
4.6.82

The Suptg. Engineer Fifth Circle  
with Enclosures

Examiner D. W. accounts  
with 4 duplicate abstract  
Estimate

Chief Engineer for Irrigation

Board of Revenue

25/9/82  
325 Rs 18/9  
4 detail estimate

Cy 11/9 R 13/9  
only 5/9 Rs 18/9

21/8

5670

Gobt of (1882) Madras.

PUBLIC WORKS.

Dated

7<sup>th</sup> / 9

Recd.

Encl.

G. O., 18<sup>th</sup> Sept 1882, No. 24216

Nos. 142 to 143

Buckingham Canal  
Intimates amounting  
to Rs 192,810 for improve-  
ments to the — in  
certain places sanctioned.

Entd in Receipt Register.

18/9

18/9