

(1) Number of pages _____

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 205	Press Mis.
Dated 1877	

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

18th June 1877, No. 266 W.

Buildings and Roads
Civil Works

Read the following paper:—

No. 173. From J. O'SHAUGHNESSY, Esq., District Engineer, Nellore, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Nellore, 11th June 1877, No. 842.

I HAVE the honor to submit a survey of the Buckingham Canal near Kistnapatam showing a proposed deviation from the existing line.

2 This deviation has been long proposed, and when I was in Madras in November last I consulted the Chief Engineer and the Deputy Chief Engineer for communications on the subject. I understood General Walker to say that the deviation was so obviously advisable that I might have done it on my own authority. Colonel Farewell seemed to be of opinion that the deviation was necessary also; indeed I believe that he suggested the line of the proposed deviation as the best line for the canal when he inspected the place some two years ago.

3. When His Grace the Governor visited Nellore last month he asked on looking over the plans what the object was of leading the canal off from a point so far from the direct course. I informed His Grace that, as I was not here when the work was done, I could not say exactly how it happened, but it was admittedly a mistake, and I explained the proposals for remedying it. His Grace then directed me to send up these proposals in the regular course, which I now beg to do.

4 The estimate for carrying out the proposal, so far as it relates to the canal alone, amounts to Rupees 10,700, but I have thought it advisable to provide for a boat basin and a terrace near the high road to facilitate the loading and unloading of cargo, which will cost Rs 3,400, making the total of the estimate now submitted Rs 14,100.

5. There were several important mistakes discovered in the alignment and estimate for this section of the canal, besides the objectionable "take off" now proposed to be remedied. The most serious being that the sole of the canal was laid down 9 inches too high; this has been remedied in construction, but as the actual rates paid for the work are much below the estimated rates, the extra cutting will not cause the total expenditure to exceed the total amount of the sanctioned estimate, otherwise it would have added over Rupees 1,000 a mile to the cost of the work, or about Rupees 25,000 to the total amount of the estimate for this section of the canal.

6. Owing to this and other charges not provided for in the original estimate, I am afraid that the cost of the alteration and addition now proposed will cause the total amount of the original estimate to be slightly exceeded; the excess will, however, be within 5 per cent. of the original estimate.

No. 174. ORDER THEREON, 18th June 1877, No. 266 W.

HIS GRACE the Governor in Council sanctions the proposed diversion of the canal at Kistnapatam.

(True Extract.)

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

To the District Engineer, Nellore
" Revenue Department
Exd E C Shunker
Spare Copies

D. P. W. K. Mow

East Coast Canal

Major Gudim

Village Kristnapatam

Local
Provisions and Sedas Canal Fund

Original Works
of Communication

II Canals

Detailed Estimate No 91877-78

Work Altering line of Buckingham Canal in the 96 and 97th mile near Kristnapatam.

Stations	Length in feet	Average tidal depth in feet	Below tide level		Below low tide level		Contents	
			Breadth	Height	Breadth	Height	Below tide level	Below low tide level
1 st mile From 0 to 7 Hindon								
7 to 8	200	2.07	34.14	2.07	-	-	14,133.76	14132.96
8 to 9	20	4.25	44.70	1.35	36.00	3.00	1206.90	2160.00 3366.90
9 to 11	200	5.93	47.86	2.93	36.00	3.00	28045.76	21600.00 49645.76
11 to 13	100	7.89	51.78	4.89	36.00	3.00	25321.42	10800.00 36121.42
13 to 40	2700	5.83	47.66	2.83	36.00	3.00	364170.06	291600.00 655770.06
40 to 42	100	7.08	50.16	4.08	36.00	3.00	20465.28	10800.00 31265.28
42 to 48	600	7.09	50.18	4.09	36.00	3.00	123141.72	64800.00 187941.72
							576484.30	401760.00 978244.30
Byards							21351 ¹ / ₃	14,880 36231 ¹ / ₃

2 mile									
48 to 80	3200	6.50	49.00	3.50	36.00	3.00	548800.00	345600.00	894400.00
80 to 87	700	5.02	46.04	2.02	36.00	3.00	65100.56	75600.00	1407
87 to 91	400	6.47	48.78	3.47	36.00	3.00	68376.08	43200.00	111576.08

Total cubic feet	68276.64	464400.00	1146676.64
Carting Expense	25267 1/2	17200	42467 1/2

D. P. W. Nelson East Coast Canal Range
John Gurdin Village Christnapatam
Local Original Works
Cochranes and Indras Canal Fund
 i Communications
 ii Canals

Abstract Estimate to 9/18/77
 Work. Altering line of Buckingham canal in the
 96th and 97th miles near Christnapatam.

Quantity	Description of work	Rate Per	Amount Total
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1st mile

21351 1/3	Cyds. of Earthwork for cutting down to low tide level	16	341620.1
14880	Do Do for cutting below low tide level	26	2325.0
36231 1/3	Do Do for sectioning spoil banks, berms & slopes	2	37767

2nd mile

25267 1/2	Cyds. of Earthwork for cutting down to low tide level	16	2369.3
17200	Do Do for cutting below low tide level	26	26878.0
42467 1/2	Do Do for sectioning spoil banks, berms & slopes	2	44263

Superintendent	-	-	280
Sandries	-	-	160

- Carried Over, Feb. 10643.1

Brought forward 10643
Contingencies 56 15 11

Total Paper 10700
Total Paper for 10 divisions per 3400
Grain Total Paper 14100

District Engineers Office
Yellow
11 June 1877
checked
CR
Comd
Capt

Wharfedale
District Engineer

Enclosure in a letter
from the District
Engineer Mellore to
the Chief Engineer
Roads & Buildings
Fort Saint George,
No 842, dated 11th
June 1877.

14 JUN 77
5850

Estimate for Altering
line of Buckingham
Canal with 96th and
97th miles near
Kustnapatam -
amounting to Rs. 14,100

4018: June 77 13th 173

D. D. Mellore
Sub. Engd.
Local

Cochin & Madras Canal Fund

East Coast Canal & Drainage
Village Kustnapatam

Original Works
I. Communications

II. Canals
of 1877-78

Abstract Estimate for
Work Constructing a boat Basin in the 96th
mile of the Buckingham Canal at Kustnapatam.

Quantity Particulars Rate Per Amount Total

3,973 Cubic yards of Earth
work } 0 20 Cyt 496 10 0

9,900 Cubic feet of Laterite
Chunam } 0 40 Cyt 2475 0 0

492 Cubic yards of Gravel
hauling } 0 80 Cyt 246 0 0

Superintendence 90 0 0

Sundries 60 0 0

Contingencies 326 0 0

Total Estimate Rupees 3,400 0 0

District Engineer's
Office
Mellore
11 June 1877.
Chakraborty
Ct

W. M. Mellore
District Engineer

Enclosure is letter
from the District
Engineer to
the Chief Engineer
Roads & Buildings
Fort St. George,
No 842, dated 11th.
June 1877.

14 JUN 77
5850
110

Estimate for constructing
about basin with
96th mile of the
Buckingham Canal
at Kristnapatam
amounting to Rs. 3400.

4018 in June 77 D.R. 1/73

D.R. Pellon
Salugudar
Local
Cochran's & Madras Canal Fund
Original works
Communications
II. Canals.
Detailed Estimate of 1877-78.

Work Constructing a boat Basin in the 96th mile of
the Buckingham Canal - at Kristnapatam

Particulars	Numbers	Measurements			Cubic Contents	Superficial Contents
		Length	Breadth	Depth		
Cutting for basin on both sides of Canal	"	207.16	96.42	5.37	107,262	
		or Cys. or 3973.				

Building revetment
all round " 660 10 1 $\frac{1}{2}$ 9,900
Total Cft of laterite masonry 9,900.

Gravel hacking
Under revetment " 664 20 1 13,280
Total Cft of gravel hacking 13,280
or Cubic yards 492.

1842

District Engineer's Office

Yellow
11 June 1877

From,

The District Engineer,

Yellow.

To,

The Chief Engineer.

Roads and Buildings

Fort St. George.

Sir,

I have the honor to submit a survey
of the Buckingham Canal near Pootampatam
showing a proposed deviation from the
existing line

This deviation has been long proposed
and when I was in Madras in November
last I consulted the Chief Engineer and
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on the subject.

I understood General Walker to say
that the deviation was so obviously advisable
that I might have done it on my

own authority. Colonel Farewell seemed to be of opinion that the deviation was necessary also, indeed I believe that he suggested the line of the proposed deviation as the best line for the canal when he inspected the place some 2 years ago.

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the loading and unloading of cargo which will cost Rs 3,400. making the total of the estimate now submitted Rs 14,100.

There were several important mistakes discovered in the alignment and estimate for this section of the canal besides the objectionable "take off" now proposed to be remedied. The most serious being that the sole of the canal was laid down 9" too high, this has been remedied in construction. but as the actual ^{gates} ~~cost~~ paid for of the work ^{are} much below the estimated rates the extra cutting will not cause the total expenditure to exceed the total amount of the sanctioned estimate, otherwise it would have added over 1000 Rs as well to the cost of the work or about 25,000 Rs to the total amount of the estimate for this section of the canal.

Owing to this and other charges not provided for in the original estimate I am afraid that the cost of the alteration and addition now proposed

will cause the total amount of the original
estimate to be slightly exceeded. the excess
will however be within 5 percent of the
original estimate.

I have the honor to be
Sir,
Your most Obedient Servant.

Wm. W. W. W.
District Engineer.

Wm. W. W. W.
Comptroller

Road & Buildings
 No. 5850
 From,
 The District Engineer
 S. Bellare
 The Chief Engineer
 Road & Buildings
 Fort St. George

No 842. Encl. 3.
 Dated 11 June 1877
 Recd

Buckingham Canal
 & towards for
 sanction, a survey
 of the — near Krishna
 — patam showing a
 proposed deviation
 from the existing line,
 and an Estimate
 amounting to Rs. 14,100
 for the above work.

G.O. 18 June 77 Bk. 173

20/6/77

to Mr.

Building & Roads.

Mr. B.

No 266W

Proceedings of the Madras Government
 Under date the 18 June 77
 Per the following.

the Sd. Bellare. (H.E. No 842 of 11 June 1877)

His Grace the Governor
 in Council sanctions
 the proposed diversion
 of the Canal at Krishna
 patam.

(A)

ERT

15/6/77

H. Bellare, Recd Copy Dated 18-6-77
 Recd Dept. ✓
 Dup - 2-7-77

W. Little

10-28-50
Buildings & Roads
Civil works.
Govt. of 1877 India
PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl

G O. 15th June 1877, No 266 W

Nos. 173-174

East Coast Canal - The
proposed diversion of
the — at Kottapattam
in action &c

A copy of the
10-28-50
No. 15-
Entered in Register