

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public Works* **DEPARTMENT.**

G.O. No.	719	Press
		Mis.
Dated	4-9-	1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

11th September 1877, No. 719 W.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 81. From E. H. PRINGLE, Esq., District Engineer, South Canara, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Mangalore, 16th May 1877, No. 13.

I HAVE the honor to forward the sections of the Mangalore Harbour called for in your memorandum No. 477 of 23rd February 1877.

2. The further portions surveyed will be submitted when plotted.

3. I beg to draw your attention to the weak point of the spit near the Ullal and marked X in the plan. This is the spot I considered dangerous in 1872, and partly protected by the desire of the then Collector Mr. Thomas. My action, however, was disapproved by General Walker in his memorandum printed with G.O. No. 1,065 of 24th April 1872. The latter officer, however, recently expressed his opinion that the river should be prevented breaking out at this point, and I therefore have the honor to request instructions in the matter.

4. Looking to the near approach of the monsoon, I would beg that, if the point is to be protected, orders may be telegraphed to me.

5. My own arguments in favor of placing groynes at this spot may be summed up by saying that, if the Neitravati is allowed to break out to the south, the harbour will revert to the unsatisfactory position it was in, subsequent to the cutting of the Gurpur sand spit, with two entrances and a prospect of either enormous expenditure in closing one of them, or years of delay until they unite again naturally.

No: 81-A. Chief Engineer's Memorandum, dated 21st May 1877, No. 1,336.

No. 81-B. From J. P. DAVIDSON, Esq., Acting District Engineer, South Canara, to the Chief Engineer, Public Works Department, Buildings and Roads, dated Mangalore, 24th August 1877, No. 44.

I HAVE the honor to submit herewith for your sanction an estimate, amounting to Rupees 580, for the construction of nine temporary groynes for the protection of the narrow sand spit at Ullal.

2. The work has already been executed under the authority given in the Chief Engineer's memorandum No. 1,336 of the 21st May 1877.

3. On the estimate being sanctioned the necessary amount will be duly appropriated from the repair grant of Port Funds already placed at my disposal.

No. 82. ORDER THEREON, 11th September 1877, No. 719 W.

THE expenditure of Rupees 580 for constructing nine temporary groynes for protecting the narrow spit of sand north of Ullal at Mangalore in the South Canara District is sanctioned.

2. It is observed that funds have already been appropriated for the work which has also been carried out.

3. The sanction accorded in these Proceedings has been registered as Special No. 52 B of 1877-78.

(True Extract.)

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

From

The District Engineer
South Canara.

The Chief Engineer for
Roads & Buildings.

Madras

I have the honor to forward the
Sections of the Mangalore Harbor, called
for in your Memo No. 477 of 23rd February 1877.

2. The further portions surveyed will
be submitted when plotted.

3. I beg to draw your attention to the
weak point of the spit near the Ullal and
marked X in the Plan. This is the spot
I considered dangerous in 1872 & partly
protected by the desire of the then collector
Mr. Thomas. My action, however, was
disapproved by General Walker in his
Memo, printed with G. O. No. 1065 of 24th April
1872. The latter officer, however, recently
expressed his opinion that the break should
be prevented breaking out at this point
and I therefore have the honor to request
instructions in the matter.

Looking

As looking to the near approach of
the monsoon, I would beg that if the
point is to be protected, orders may
be telegraphed to me.

5. My own arguments in favor of
placing groins at this spot may be
summed up by saying that if the Kistawati is allowed to
break out to the south, the Harbour will revert to the un-
satisfactory position it was in, subsequent to the cutting
of the Gumpur sand spit, with two entrances & a pros-
pect of either enormous expenditure in closing one of
them, or years delay until they unite again naturally.

I have the honor to be
Sir
your most obedt Servt

Edw. Smith

District Engineer

Mangalore

From P.W.D.
21 MAY 77
5028
The District Engineer
South Canara

To
The Chief Engineer for
Roads & Buildings

N^o 13.

Dated 16th May 1877.

Encl: I
+ P.W.D. Memo No. 2202 of 6th Sept 77
C.P. N^o 1336 dated 21st May 1877.

Mangalore Harbour
Forwarding section of -

10th Sept 77, No. 81

in 8-9-77 21-9-77

Memorandum.

Letter from the District Engineer
South Canara N^o 13 dated 16th May 1877.

The Chief Engineer declines to issue orders by Telegraph except in extremely urgent cases, as such orders are liable to be misunderstood and lead to the extravagant waste of State Funds.

For the delay that has been permitted to take place in protecting the spit of sand reported as being liable to be breached by the Netrawati River at Mangalore the District Engineer must be held responsible. He will now submit by return of post definite proposals with an estimate of the cost of the work deemed absolutely necessary to prevent the accident by floods to

to the Ullal spit of sand, meanwhile he is at liberty within the limit of the Port Funds already placed at his disposal to take such temporary steps as may be immediately required for protective purposes pending the receipt of the formal sanction of Government to the estimate called for.

Six lithograph charts of the Mangalore Harbour having this day been forwarded to the District Engineer by Banghy and one copy now accompanies this letter upon which the positions of the protective works proposed should be marked and drawn to scale; and also the outer contour lines of H and L water of the spits of sand as they now exist North and South of the opening into the sea should be shown in different colors.

Fort Saint George
21st May 1877

Wm. H. Ford Coll. R. E.

Chief Engineer P.W.D.

To
The District Engineer South Canara.

No 2202 of 6th Aug/77. 119

Memorandum.

Letter from the District Engineer
South Canara No 21 dated 29th May 1877.

The District Engineer will report what has been the effect of this monsoon flood on the strip of land fronting the Netravathi river and between it and the sea as also on the single embouchure now discharging both the Govopoor and Netravathi rivers into the sea. All alterations should be shown on the map accompanying this paper.

Sd/ W. Farewell Colonel
Dy. Chief Engineer P.W.D.

To
The District Engineer South Canara

Special Post Fund
 Repairs
 Miscellaneous Public Improvements
 & Subs to Marine Navigation
 iii Miscellaneous

Estimate No 21 of 1877-78
 South Canara District

Proposed Constructing (1) nine temporary groynes for
 the protection of the narrow sand spit at Ellal.

Quantity	Description of work	Rate Amount Total			
		R.	Rs.	P.	P.
236	Copraint piles averaging from 18 to 20 ft in length including dis- ching, value & transport	1	93	404	✓
5920	ft of palm-leaf fascines, including bamboo, Ispari paper, and wire rope	2	64	141	134 ✓
				545	134 ✓
	Sundries and Superintendence	34	28	✓	
		Total Estimate Rs 500 ✓			

District Engineer's Office
 Mangalore 24th August 1877

W. D. J. J.
 Agt. Dist. Engineer
 South Canara

Memo No 2202 of 6-8-77

Sept 11 1877

South Canara District

719 W

Estimate No. 21 of 1877-78.

Work - Constructing of temporary
groynes for the pro-
tection of narrow sand
spit at Bellal.

By A. H. Sept. 1877

Amount Rs. 580-0-0.

No. 44

District Engineer's Office
Mangalore 24 August 1877

From, The District Engineer
South Canara

To, The Chief Engineer
for Roads & Buildings
M. S. S. S.

Sir, I have the honor to submit
herewith for your sanction an esti-
mate amounting to Rs. (580) five hun-
dred and eighty for the construction
of 9 temporary groynes for the
protection of the narrow sand spit
at Bellal.

2. The work has already been
executed under the authority given
in the Chief Engineer's Memo:
No. 1336 of the 21st May 1877.

3. On the estimate being sanctioned

The necessary amount will be
only appropriated from the repair
grant of Port Funds already
placed at my disposal.

I have the honour to be,
Sir,
Yours most obedt Servant

W Gordon
Esq. at Ensigns
Gordon

Former papers vide Ch 5033.

Roads and Buildings

From
The District Engineer
South Canara

To The Chief Engineer
for Roads & Buildings

P. 44

Dated 24th August 1877

No. of encls. one

Cyrennes—submitting
for sanction an estimate
for constructing a temporary
— for the protection of
narrow sand spit at
Ullal.

4011. Sept 5. J.D. 8/10

Ans 8-9-77. R. 11-9-77

PUBLIC WORKS DEPARTMENT.

219

Letter from the D. Engineer South Canara
No. 21 dated 29th May 1877

Memorandum by the Chief Engineer P.W.D.
dated 21st July 1877

FOR ORDERS.

Ed. M. Colman & Co.

Secy. to Govt. P.W.D.

Seen in office with
H. Ford that the
Expenditure different
of present charges of
maintenance of the navigation
Backwater will probably
be quite in excess of
the sum to be the
importance of the health
aimed at. It is
by some means

401.

that the situation of the
entrance in its present
position is particularly
desirable. It is inconveniently
far north for the trade.

The only advantage in the
present position is that
it lessens the chances
of the lowlands at the
entrance of Jorapur
river being flooded
in the monsoon.

Since I was in Canara
4/5th. the entrance
to the back water was
directly opposite the
Infantry House. but
there was a small opening
further north than the
present one & nearly
opposite Sultan's Battery.

239
In this town. the North
of the spit between the
2 mouths has been
swept away & exposed
much valuable property
which has been discovered
but that cannot be
immediately removed. I don't
suppose the present bank
has been planted as
the one we use.

I don't disagree with
the Col. but for the present
the proposed object is
with the estimated
Expenditure. & the D.R.
I don't doubt that
the effect of this monsoon
flood on the bank
forming East India
River. I understand
Col. F. & the opinion
that Mr. Phipps plan
and estimate of the
of little real effect.
L.H.

FOR ORDERS.

Handwritten notes in left margin, mostly illegible.

4011. Sept. 11. 1871

3718
Public Works Department
259

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 11th Sept 1871
Read the following:—

Handwritten notes:
The District Engineer
Sh. S. Kanara
No. 12. ...
The District Engineer
Sh. S. Kanara

Handwritten signature/initials.

The estimate of
Rs 530 for constructing
a temporary groyne
for protecting the
narrow spit of sand
north of Chhalat
Mangalore in the
Sh. S. Kanara District
is sanctioned.

Handwritten signature/initials.

It is observed that
funds have already
been

and $\frac{16}{7977}$ 507

7477 507
The sanction accorded
in these Proceedings
has been registered as
Special No 52 B of
1877-78-

[illegible]

Ref 20-9-77 17

W.A. Croft - 5-22. EA-977

Copy 33



Sept. 11 1877

PUBLIC WORKS.

To

Dated

Issued

Recd.

11th Sept 1877 719 W

Nos.

Temporary progress for the
locking the narrow spit of
land north of Allah at
Mangalore. S. R. R. R.
The estimate of Rs 500 for
constructing, and
sanctioned