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(3) Initials of the Referencer lms

# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

DEPARTMENT

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|----------|--------------|--------|
| G.O. No. | 2718(W)      | Press. |
| B.P. No. |              | Mis.   |
| Dated    | 18. 10. 1982 | 198    |

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.  
Civil Works.

No. 109.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, Fourth Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 12th October 1882, No. 437 :—

I have the honor to forward for your information the special report of Lieutenant West on the work done for closing the old bar at Mangalore from 21st to 30th September 1882. The work appears to be making satisfactory progress. He has hitherto been working only from the northern sand-spit, and has been directed to work also if possible from the southern side of the mouth.

ENCLOSURE.

No. 712/12.

PROGRESS Report of work in closing old bar mouth at Mangalore from 21st to 30th September 1882 or up to the latter date.

*Southern Sand-spit.*

No work carried out at the southern side of the old mouth; sea silting up slowly, but perceptibly, beyond single slab stake groyne at "a" in sketch, dated 21st September 1882. The extension of the bar towards sea at "x" (in the same sketch) is about 1,500 feet from sand-spit, and about 150 and 200 feet wide. This can only be seen at minimum low tide, and is from 1 to 1½ feet above datum.

*Northern Sand-spit.*

|                                                                                                                                                         | FEET. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Groynes at "b" (in I. double line of stake the same sketch) slabs commenced 11th September 1882 above low water and completed up to 30th September 1882 | 165   |
| Do. II. bamboo screen tatties behind the above                                                                                                          | 145   |
| Do. III. sand bank, in extension of small bank in rear of tatties                                                                                       | 60    |
| Twenty feet of the above was washed away during spring tides, leaves                                                                                    | 40    |
| Screen groyne 10' x 10' below water at "e d" of sketch, commenced 14th September 1882. } Completed and anchored in main line "c"                        | 1,985 |
| Double line at curve at "d"                                                                                                                             | 220   |
| Total ...                                                                                                                                               | 2,205 |
| Screen groyne 10' x 15' below water at "f" of sketch. } Commenced on 28th September 1882, completed and anchored above low water                        | 50    |
| Under water                                                                                                                                             | 380   |
| Total ...                                                                                                                                               | 430   |

*Results.*

The results of groynes "b" and screen tattles "cd" are that silt has been thrown up at "e" 215 feet from nose of the groyne, and is 5 feet below datum, where it was 17 to 10 feet deep as per diagram attached.

There was a displacement of the tattles at "d" which formed a concave to the current of the Gurpur river. I therefore had tattles placed in a convex form, and both dotted lines are now anchored and fixed, and is shallowing; the 10 feet tattles can be seen at low water up to dotted red lines. At the gate sand is being silted up; it will take three months to close the gap. At "f" there is hardly any action going on yet, but the current is not so strong at this side now. Beyond "f" northwards, for about 2,000 feet in the basin between mouth and bar and from 200 to 300 feet from the sand-spit inwards, I sounded only 5 feet depth at low water at \*. Apparently the sea is throwing up a spur here, or it may have been thrown up by the river during the freshes. This line will be sounded, to ascertain the depths from \* to "x" (in previous sketch). A little north of "a x" (in previous sketch) in the basin between old mouth and bar, for about 200 or 300 feet from southern sand-spit, the depth is 7 feet at ☉ I believe "x" will be driven in and a bank formed by sea "x".

The ropes not being strong enough, there was some trouble in laying the line at "f," but this has been rectified. For the same cause the tattles burst in two places on line "dc" at the extreme end about 300 feet from southern sand-spit and in the centre of the current through the old mouth. As there are freshes in the river, the centre displacement will be rectified; but as I am working from the northern sand-spit to weaken the Gurpur current the best plan I think is to let the survey post end of tattles at "e" above or open.

(Signed) W. C. S. WEST, Lieutenant,  
Sub-division Officer.

2nd October 1882.

No. 491.

Forwarded to the Superintending Engineer, Fourth Circle, for information. Lieutenant West appears to be making very steady and perceptible progress. Instructions have been sent to him to proceed on the lines he has laid down, but also, if possible, to work from the southern sand-spit.

BHAYANI,  
11th October 1882.

(Signed) J. P. DAVIDSON,  
Executive Engineer.

No. 110.

ORDER—dated 18th October 1882, No. 2718 W., Public Works.

Recorded, and communicated to the Master Attendant, Madras, for information.

2. A sum of Rs. 3,000 was made available for the work in G.O., 1158, dated 11th September 1882 (Financial). The expenditure to date should be reported and information afforded as to whether any further grant will be necessary.

(True Extract.)

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

To the Superintending Engineer, Fourth Circle.  
" Master Attendant, Madras.  
" Marine Department.

Exd. C. Howarth.  
Spare Copies

BUILDINGS AND ROADS.  
CIVIL WORKS.

Govt. of (1882) Madras.  
PUBLIC WORKS.

Dated October, 18th.

Recd.

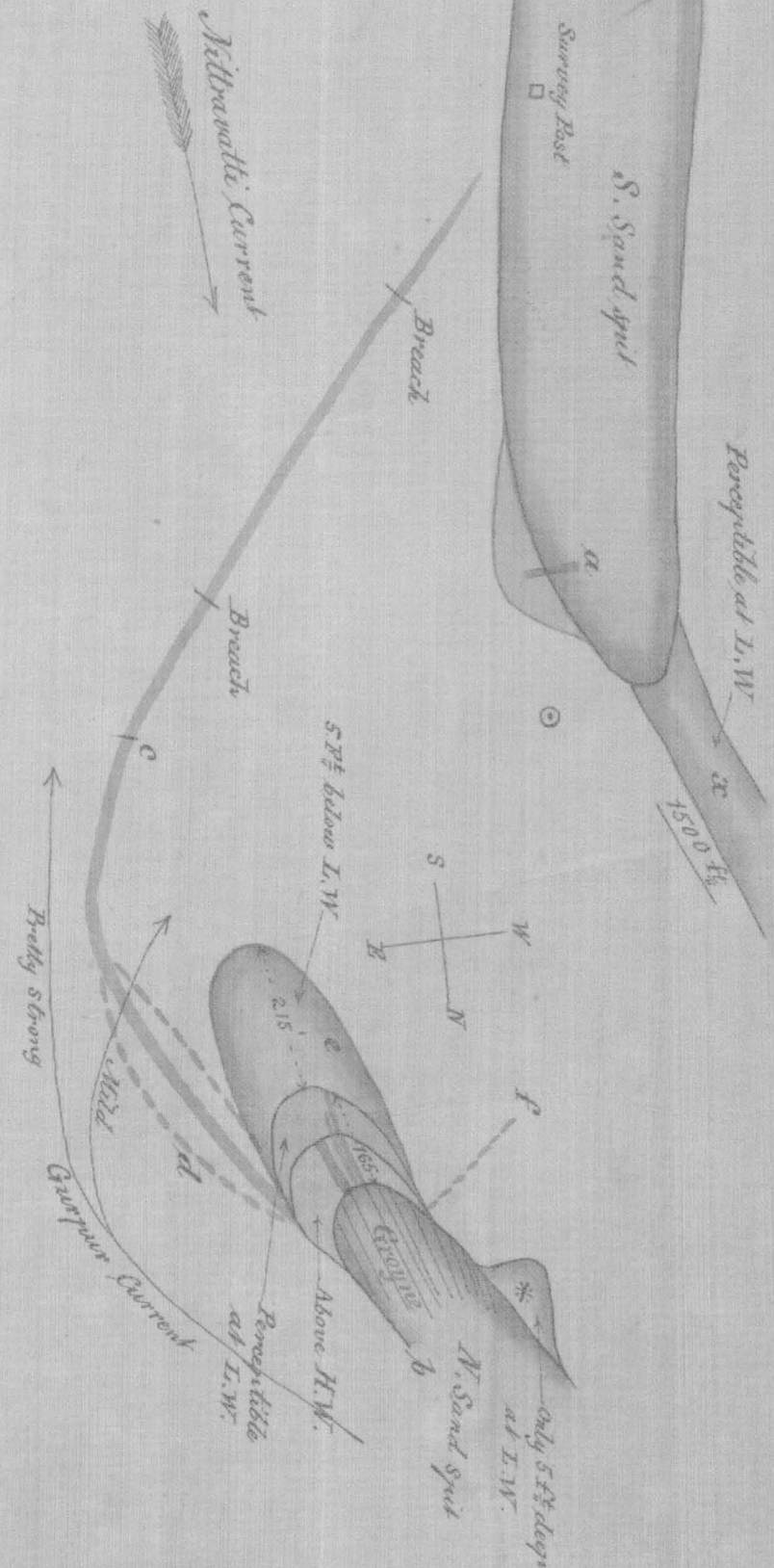
Encl.

G.O., 18th Oct. 1882, No. 2718 W.

OCTOBER.  
Nos. 109-110.

Old Bar at Mangalore.

Progress Report of the work done towards  
closing the — from 21st to 30th September  
1882, recorded, and communicated to the  
Master Attendant, Madras, with remarks.

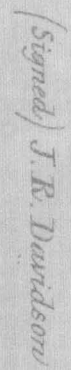


2718  
12/10/82

M. C. S.

Executive Engineer.

H. B. S.



(Signed) J. R. Davidson

Surge. ENGINEER'S OFFICE 4TH CIRCLE,

Coimbatore, 12 Oct. 1882.

No. 437

From,

The Superintending Engineer,

Fourth Circle.

To,

The Chief Engineer  
P. W. D.

Madras

Sir,

Enclosure

Report with  
a sketch.

I have the honor to forward for your information the special report of Lieut. West on the work done for closing the old bar at Mangalore from 21<sup>st</sup> to 30<sup>th</sup> September 1882. The work appears to be making satisfactory progress. He has

has hitherto been working  
only from the Northern Sand  
Spit, and has been directed  
to work, also, if possible from  
the Southern side of the mouth.

I have the honor to be,  
Sir,  
Your Most Obedt Servt.

L. Beatty - Colonel R.E.  
Supg. Engineer & Civil.

No. 712  
12

Progress report of work in closing  
old bar mouth at Mangalore, from 21<sup>st</sup> to 30<sup>th</sup>  
September 1882 or up to the latter date.

No work carried out at the southern  
side of the old mouth, sea filling up slowly  
but perceptibly, beyond single slab static  
groynes at "a" in sketch dated 21.9.82. -  
The extension of the bar towards sea at "c"  
(in the same sketch) is about 1500 ft from  
sand spit, and about 150 and 200 ft wide. This  
can only be seen at minimum low tide and  
is from 1 to 1½ ft above datum.

Groyne at "b" in I Double line of static  
the same sketch) slabs commenced 11.9.82 } 165 ft  
above low water & completed up to 30.9.82.

Do II Bamboo screen battis  
behind the above } 165 ft

Do III Sand bank, in ex-  
tension of small bank } 60 ft  
a pair of battis  
20 feet of the above was  
washed away during } 10 ft  
spring tides leaves

Screen groyne 10' x 10' } Completed and anchored  
below water at "c" in main line "c" — 1985 ft  
of sketch commenced  
14<sup>th</sup> September 1882

Double line at curve at "d" 220 ft  
Total 2205 ft

Screen groyne 10' x 10' } Commenced on 28.9.82  
below water at "f" } Completed & anchored  
of sketch } above low water — 50 ft  
under water — 820 ft  
Total 1330 ft

The results of groyne "b," and screen batties  
"c,d" are, that silt has been thrown up at  
"c," 215 ft. from nose of the groyne, and  
is 5 ft below datum, where it was 14 to 18  
ft deep as per diagram attached.

There was a displacement of the batties  
at "d" which formed a concave to the cur-  
rent of the Gurpur river, I therefore had  
batties placed in a convex form, and both  
dotted lines are now anchored and fixed,  
and is shallowing. the 15 ft batties can be  
seen at low water up to dotted red lines.  
At the gate sand is being silted up, it will  
take three months to close the gap. At "j"

there is hardly any action going on yet,  
but the current is not so strong at this side  
now, beyond "j" northwards, for about  
2000 ft in the basin between mouth and bar  
and from 200 to 300 ft from the sand spit in-  
wards. I sound ed only 5 ft depth at low  
water, at "x". Apparently, the sea is throwing  
up a spur here, or it may have been thrown  
up by the river during the freshes. This line  
will be sounded, to ascertain the depth  
from "x" to "x" (in previous sketch). A  
little north of "a x" (in previous sketch)  
in the basin between old mouth & bar,  
for about 200 or 300 ft from southern sand spit,  
the depth is 7 ft at "o". I believe "x" will be  
driven in, and a bank formed by sea "x x".

The ropes not being strong enough,  
there was some trouble in laying the line  
at "f", but this has been rectified. For  
the same cause the batties burst in two  
places on line "d e", at the extreme end  
about 300 ft from southern sand spit and  
in the centre of the current through <sup>the</sup> old  
mouth. As there are freshes in the river,  
the centre displacement will be rectified,  
but as I am working from the northern  
sand spit

sandspit to weaken the Gulf current  
the best plan I think is to let the  
survey post end of tatter at "c" above  
or below.

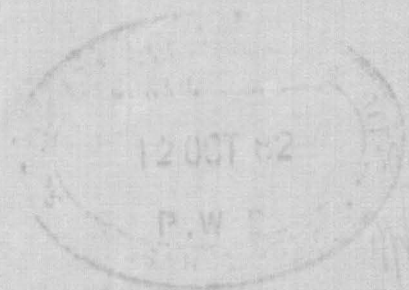
(Signed) W. B. S. West Lt.  
Sub Division Officer  
2/10/82.

No 491

True copy - Forwarded to the  
Superintending Engineer IV Circle  
for information. Lieutenant West  
appears to be making <sup>very</sup> steady and  
perceptible progress. Instructions  
have been sent to him to proceed on  
the line he has laid down, but  
also, if possible, to work from  
the southern sandspit.

Camp Chavani  
Comptroller  
11<sup>th</sup> October 1882  
N. Davidson  
Executive Engineer

From  
The Executive Engineer  
Cincinnati, D<sup>y</sup>



Dated 11<sup>th</sup> October/82

Copy of Lt West's  
Progress Report from  
21<sup>st</sup> to 30<sup>th</sup> September  
with 1 sketch - 182  
endorsed.

7th. G.O. No 1158 dt 11.9.82  
on R.N. 402257 dt 2.9.82

From  
The Supt. Engineer,  
Fourth Circle.

Dated 12<sup>th</sup>  
Sept. 82 } October 1882.

No. 437

Enc: 2.

Old Bar at Mangalore.

Forwarding for  
information special  
report of Lt. West on  
the work for closing  
the —, from 21<sup>st</sup>  
to 31<sup>st</sup> September 1882.

Oct 19 10

No 2718

B. L. S. S.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 18 October 1882

Read the following:—

From the Suptg Engr. Fourth Circle } S.E. No 437 dt 12 Oct. 1882

5 Recorded, and com-  
municated to the Master  
Attendant Madras for in-  
formation.

2. A sum of Rs 3000 was  
made available for the  
work in G.O. 1158 dt  
11<sup>th</sup> September 1882 (Finan-  
cial). The expenditure to  
date should be reported  
and information afforded  
as to whether any further  
grant will be necessary

Suptg Engr. Fourth Circle } with  
Master Attendant, Madras } sketch

Marine Department  
Oct 24/10/82

1/11 18/10  
2 p. m.

15.575

7107

Gobt. of (1882) Madras  
PUBLIC WORKS.

Dated

*S. S. S. S.*  
*19/10/82*

Recd.

Encl.

G. O. 18 October 1882, No. 2718

Nos.

*109 to 110*

Old Bar at Mangalore

Progress report of the work done  
towards closing the  
from 21<sup>st</sup> to 30<sup>th</sup> Sept 1882.  
Recorded & Communicated  
to the Master Attendant  
Madras, with comments.

18/10

*10/11/82*

*Sent to Receipt Dept*