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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No.	462	Press Mis.
332-33		
Dated	12-2-	1869.

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
12th February 1869.*

No. 332. Read the following letter from Commodore Sir LEOPOLD HEATH, K. C. B., to His Excellency the Governor of Madras, dated H. M. S. "Octavia," at sea near Goa, 6th January 1869.

I have paid a short visit to Cochin, and had a good look at the groynes on the southern side of the entrance. They seem to be doing their reclamation work well, but I should recommend the driving of standard registering piles graduated in inches, and that a three-monthly record of the height of the sand against these piles should be kept, so that you will know not only the amount gained, but the form and shape which the deposit takes. I would put between every two groynes one row of three of these piles, the in-shore one of the three about ten feet seaward of high-water mark, the outward one in a line with the heads of the groynes, and the middle one-half way between the others. I hear there is a difference of opinion as to whether the groynes should be *at once* run out to a considerable distance or no. I should say the groynes ought only to be lengthened by degrees, following the progress of the reclamations, so that what is reclaimed will show at once up to the level of high-water, instead of the gradual shoaling and slow raising up of a wider space; but if you establish a record of progress, such as I have suggested, the line which should be adopted will be indicated by that record.

No. 333. ORDER THEREON, 12th February 1869, No. 462.

CIVIL WORKS, No. 41.

1. In this communication Commodore Sir Leopold Heath, K. C. B., after visiting Cochin and personally inspect-

ing the works in progress there for arresting the encroachments of the sea, which have threatened the existence of both the town and the harbour, gives it as his opinion that those works are effecting very successfully the object for which they have been undertaken, and are acting favorably in causing the reclamation of the beach that has been washed away.

2. The Government are glad to have this confirmation, by an Officer so well qualified to form an opinion, of the reports they have received of the beneficial action of the groynes in course of construction at Cochin, and they authorize standard registering piles, graduated to feet and inches, to be fixed in the manner indicated, to show from time to time the extent and shape of the deposit between the groynes. These the Government are disposed to believe should not be run out at once into deep water, but should be gradually extended as the water is shoaled in their neighbourhood by the deposition of sand. By carefully regulating the advance of the groynes by the progress of this deposit, as shown by the registering piles, much saving of stone may be effected in the construction of the groynes without diminishing their stability or usefulness.

(True Extract)

Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 7th Division.
,, Marine Department.

Exd. S. T. Augustin.

for

Govt. of {1869} Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,

7TH DIVISION.

&c., &c., &c.

Dated February, 12th.

Recd.

G. O., 12th February 1869, No. 462

FEBRUARY.

Nos. 332-333

Groynes in course of construction at
Cochin.—Passing orders on the letter
from Commodore Sir Leopold Heath,
K. C. B., reporting on the groynes under
construction at Cochin, Malabar District.

H. M. S. Octavia
at sea near Cochin
Jan 6/69.
My dear Lord Napier
I have paid a
short visit to Cochin
and had a good look
at the groynes on the
southern side of the
harbour. They seem
to be doing their
reclamation work well
but I should recommend
the driving of standard
galvanised iron
registering piles and

that a 3-inch with
record of the height
of the sand against
these piles should be
kept so that you will
know not only the
amount gained but
the form and shape
which the deposit takes
I would put between
every two groins
one of these of these
piles, the in-shore
of the three about
10 feet
Toward of high-water
and the outward
mark - the line with
one in the groin
the heads of the
ridable one
and the way between there
halfway. I hear there
other difference of opinion
as to whether the groin
should be at once run
out to a considerable
distance or not. I should
say the groins ought only
to be lengthened by degrees
following the progress of
the work.

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the reclamations so that
what is reclaimed will
show at once up to the
level of high-water instead
of the gradual shoaling &
slow raising up of a wider
space, but if you establish
a record of progress such
as I have suggested the
line which should be
adopted will be indicated
by that record.

We have had so far a most
successful trip with charming
weather. Lady Heath has
much enjoyed it. She
joins me in kind regards
to Lady Napier & herself.
Your son is quite well and
has taken to his work more
the last of yr. very truly
A. C. Heath.

Public Works Department

No 462

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PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 11th Feb^y/69.

Read the following

From Commodore

Sir Leopold Heath K.C.B.

Here enter No. — dated 6th Jan^y/69

C.P.W. 1869 Dept. February
No. of Govt. No. 255.

From

Commodore Sir Leopold Heath K.C.B.

To

The Governor of Madras

4th 6th January/69

Recd. 21st " "

No. 462-11th Feb^y/69

Offering certain observations on the progress under construction at Cochin. —

No 502

Jan^y 1869 No. 28th

In this communication Commodore Sir Leopold Heath K.C.B., after visiting Cochin and personally inspecting the works in progress there for arresting the encroachments of the Sea, which have threatened the existence of both the town and the harbour, gives it as his opinion that those works are effecting very successfully the object for

Wm R.
A.A.

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Cort. of 1869 Madras.

PUBLIC WORKS.

To the Superintendent Engrs.
1st Division

Dated

Recd.

Inc.

G. O. 11th Feb 1869 No. 162

Nos. 332-333

Prognosis in course of construction
at Cochin Copying orders on
the letter from Commodore
Sir Leopold Heath - F.C. B. re.
putting on the frigates under
instruction at Cochin, Malabar
etc.