

5. As the estimate has been prepared as closely as possible in accordance with the instructions given, I have no remarks to offer except that Item VII appeared indispensable looking at the position selected for the groyne on the sea face; and it appears to me that 150 feet is too small an opening to leave at the river's mouth; I should have left a clear width of 300 feet, but I presume that Captain Taylor considers 150 feet sufficient.

No. 2902.

MEMORANDUM.

FORWARDED in original to the Master Attendant for countersignature to the estimate if approved, and for remarks with reference to the last paragraph of the Superintending Engineer's letter.

(By Order.)

3rd December 1881. (Signed) ROSS THOMPSON, Lieut.-Colonel, R.E.,
Actg. Dy. Chief Engineer, P.W.D.

To the Master Attendant,
with the letter above quoted and 7 enclosures (requested to be returned).

No. 37-A. From J. H. TAYLOR, Esq., Lieutenant, R.N.R., Master Attendant, Administrative Department, to the Secretary to Government, Public Works Department, dated Madras, 13th December 1881, No. 11136.

WITH reference to memorandum, Public Works Department No. 2902, dated 3rd December 1881, I have the honor to return, duly countersigned, the estimate for improvements to the port of Negapatam, and with reference to the last paragraph of the Superintending Engineer's letter No. 1466 T.J., dated 26th November 1881, to state that I am still of opinion that the opening at the river's mouth being only used for boats should not be more than 150 feet, in order to ensure sufficient scour to maintain the depth required. The papers forwarded are herewith returned.

No. 3062.

MEMORANDUM.

THE Chief Engineer has the honor to inquire whether the Master Attendant has any objection to defer the construction of the palmyra groyne work south of the mouth, till at least experience has shown the necessity for it. The Chief Engineer is not in favor of any groyne projecting seaward so close to the mouth as that shown in the plan, and is inclined to think that the rest will not prove of any special value.

(By Order.)

16th December 1881. (Signed) ROSS THOMPSON, Lieut.-Colonel, R.E.,
Actg. Dy. Chief Engineer, P.W.D.
To the Master Attendant.

No. 37-B. From J. H. TAYLOR, Esq., Lieutenant, R.N.R., Master Attendant, Administrative Department, to the Chief Engineer, Public Works Department, dated Madras, 20th December 1881, No. 11403.

WITH reference to your office memorandum No. 3062, dated 16th December 1881, I have the honor to inform you that I have no objection to the construction of the palmyra groyne at the mouth of the river at Negapatam being allowed to stand over as suggested by you.

No. 38. ORDER THEREON, 11th January 1882, No. 85 W.

THE postponement of the construction of a palmyra groyne at the mouth of the river at Negapatam, as suggested by the Chief Engineer, is approved, and the balance of the estimate amounting to Rs. 6,415 for improvements to the port is sanctioned.

2. The Accountant-General will be instructed in the Financial Department to place the sum of Rs. 8,178* at the disposal of the Public Works Department for the execution of the work.

* Works	...	...	...	Rs.
Establishment	...	...	...	6,415
Tools and Plant	...	...	...	1,603
				160
				8,178

3. This sanction has been registered as Excluded Local (Port Funds) No. 47 W. of 1881-82, and classified as Miscellaneous Public Improvement—Original Works.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Sixth Circle, with six enclosures.
,, Examiner of Public Works Accounts, with duplicate Abstract Estimate.
,, Financial Department.
,, Marine Department.

Order in the Financial Deptt 31st January 1882 No. 184

*Ordered accordingly
(True Extract)*

C. O. Buchanan

The Public Works Deptt. Under Secretary

Exd. E. C. Shunker.
Sp. Copies

No. 307 W. of 3rd Feb. 1882.

Communicated to the Examiner of Public Works Accounts.

Ex. J. W. A.

S. E. C. Circle

Resd. 4-2-82

*1-2-82
Log/z Entd. in Receipt Regn*

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

11th January 1882, No. 85 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 37. From Colonel J. BEATTY, R.E., Superintending Engineer, Sixth Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 26th November 1881, No. 1466 T.J.

I HAVE the honor to submit herewith the estimate of improvements at the port of Negapatam called for in G.O., No. 1356 W. of 30th May 1881. The estimate was originally sent me by the Executive Engineer, Negapatam, in July last, but was then incomplete, and had to be returned for correction and the countersignature of the Master Attendant.

2. The plans now bear the countersignature of Captain Taylor, and the estimate has been recast and corrected.

3. I submitted an estimate of Rs. 550 for the work of planting, &c., for the maintenance of the sand spit with my letter No. 2202 of 5th February 1881. That estimate was not sanctioned, and the work of preserving and improving the plantations and preventing injury to the groynes and banks was entrusted to the Port Officer, who should, I suppose, be supplied with funds by the Master Attendant.

4. The present estimate provides for the following works :—

Vide clause 4, paragraph 6 of the Chief Engineer's memorandum.

Vide clause 5, paragraph 6.

Vide paragraph 13 of the memorandum.

Vide paragraph 16 of the memorandum.

I.—Two new groynes of 50 feet in length at Rs. 235 each, between the end of the Vedarniem canal and the existing groyne opposite the Salt Depot...	470
II.—Repairing the old groynes.	100
III.—Removing projecting portions at the west shore of the Salt Depot	115
IV.—Constructing a boat basin to the south of the light-house, size 350 feet x 130	1,280
V.—Jetty return to the north...	3,400
VI.—Groyne on sea face of the sand spit at 150 feet, south of the present mouth, 60 feet long, solidly constructed with concrete blocks...	1,050

Grand Total ... 6,415