

Marine (1898) Department.

G.O., No. 731 Marine

DATED 30 August 1898.

[Despatch Abstract.]

Negapatam Harbour : Nos: P. W. Dept
Sanctioning with remark, an estimate of Rs 3000
for providing hurdle groyne to protect the nose
of the Spit in the ———, communicated
to the Port Officer.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	577	Manni	5.VII.96				

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
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Recd

1898

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Spare copies

G.O., No. $\frac{2054}{A}$ W., 12th August 1898.

Communicated
to the Presidency Port
AUGUST. office
L.S. 2. 9. 98
The P.P.O. to the Rep.

No. ²⁰⁵⁴_A W., 12TH AUGUST 1898.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From Colonel A. W. SMART, R.E., Officiating Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepāk, 23rd May 1898, No. 351 W.

With reference to your No. 1901 C., dated 21st March 1898, I have the honour to submit an estimate, amounting to Rs. 2,03,700, for a jetty wall at Negapatam as shown in the tracing in a yellow line.

The estimate provides for a stone wall in portland cement as directed by you; a wall of brickwork faced with cut stone in surki mortar pointed with portland cement would cost Rs. 1,42,700. A further reduction might be made by placing the wells say 6 feet apart and arching over the intervals.

It is noted that a sea opening of 250 feet only has been allowed.

Even if the least costly of the above estimates is not considered prohibitive, I would wish to observe with regard to the design that on the sea face it appears to offer too little and yet too much resistance to storm waves. If the wall on the sea face is to withstand waves, it should, in my opinion, be at least 6 feet higher than designed and be protected on its outside by wave-breaker blocks of 12 to 15 tons weight.

As designed it will allow waves to break over it and the filling of sand between the two walls must be speedily washed out and the destruction of the wall would almost necessarily follow.

As a rule, spits of the kind at Negapatam are best protected by low raking groynes on the sea face placed say 200 to 300 feet apart, which offer little resistance to storm waves but yet cause deposits between them during calm or fairly calm weather. It is true that such spits are breached in exceptional storms, but the breaches are easily repaired and at small cost.

If either of the estimates is passed, it may be returned for the necessary specifications to be drawn up.

Telegram from the Officiating Superintending Engineer, V Circle, dated 28th May 1898.

From Colonel A. W. SMART, R.E., Officiating Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepāk, 3rd June 1898, No. 370 W.

With reference to your telegram, dated 27th May 1898, and my telegram of 28th May 1898, I have the honour to inform you that an estimate for extending the semi-circular groyne at Negapatam was sent to the Presidency Port Officer, through the Port Officer at Negapatam, for approval and return to me. On its being received, it will be forwarded to you.

The estimate for the proposed jetty wall was submitted to you with my No. 351 W., dated 23rd May 1898.

No. ²⁰⁵⁴_A W., 12TH AUGUST 1898.

Memo. to the Superintending Engineer, V Circle, dated 20th June 1898, No. 507 D.

The Chief Engineer has the honour to observe that the experimental timber groyne which was built out from the end of the spit and breached in November last proved, as long as it remained intact, most efficacious in keeping the bar open and if it can be made permanent, would probably fulfil most requirements at Negapatam. The great objection to a pier is that it would certainly be severely damaged in stormy weather and might be wrecked.

2. The estimates now submitted are prohibitive in cost, and the proposal to fix the inner mouth with a masonry jetty must, it is feared, be abandoned. The Superintending Engineer is requested to be so good as to suggest the cheapest method of securing stable conditions at the river mouth. To replace the temporary groyne which was breached in November by a timber groyne made of ainee (*Artocarpus hirsuta*) wood piles and waling pieces of suitable dimensions to withstand a heavy sea might answer the purpose. This wood can be obtained from A. Brown & Co., Calicut, for Rs. 1-11-0 per cubic foot cut into scantlings, and loaded on trucks at Kallai station and can be railed to Negapatam at the rate of 5 pies per mile per ton of 40 cubic feet. Salt water is said to have no effect on it; or a palisading of this timber might be built from A to B on the plan. It is useless putting up anything that will not stand rough weather, because if it breaches, the port becomes almost inaccessible.

(Signed) W. B. DEWINTON,
Chief Engineer.

From Colonel A. W. SMART, R.E., Officiating Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepāk, 6th August 1898, No. 511 W.

With reference to your memo., No. 507 D., dated 20th June 1898, I have the honour to submit, for sanction, the enclosed plans and estimate of Rs. 3,000 for providing hurdle groynes to protect the nose of the spit in Negapatam harbour. I have the honour to ask that the sanction of this work may be treated as urgent.

ORDER—No. ²⁰⁵⁴_A W., dated 12th August 1898.

The estimate, amounting to Rs. 3,000, for providing hurdle groynes to protect the nose of the spit in the Negapatam harbour is sanctioned for immediate execution.

2. The cost of the work will be met from the provision of Rs. 15,000 made in the current year's budget for permanent groynes at Negapatam.

3. This sanction has been registered as Excluded Local No. 16 W. of 1898-99 and classified as Miscellaneous Public Improvements—Original Works.

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, V Circle,
with seven enclosures.
" Examiner, Public Works Accounts.
" Marine Department.

Exd. Shaik Karim.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government {1898} of Madras.
PUBLIC WORKS.

Recd.

Regd.

1898.

Enclosures

Spare copies

G.O., No. $\frac{2054}{A}$ W., 12th August 1898.

No 731 Marine & 30 August 1898

Communicated to the
AUGUST. Presidency Port officer
(Id) A.S.R

The P.P.O.

Negapatam Harbour

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PUBLIC WORKS DEPARTMENT.

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