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(1) Number of pages 17

(2) Date of repair 15-1-64

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 3409 Press
~~Mis.~~
464-65

Dated 22 · 10 1869.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 22nd October 1869.

No. 464. Read the following Proceedings of the Madras Government in the Marine Department:—

Directing that the papers on the subject of erecting a new jetty at Tuticorin be referred to the Public Works Department, with a request that the Superintending Engineer, 8th Division, may be called on to report regarding the Acting Master Attendant's suggestion that an iron screw-pile jetty would be preferable, and to submit an estimate of the cost of the same. } (Here enter 16th October 1869, No. 269.)

No. 465. ORDER THEREON, 22nd October 1869, No. 3,409.

CIVIL WORKS, No. 57.

COMMUNICATED to the Superintending Engineer of the 8th Division, who will furnish the report and estimate called for.

(True Extract.)

Captain, R.E.,
Acting Under Secretary to Government.

To the Superintending Engineer, 8th Division.
,, Marine Department.

Exd. S. T. Augustin.

Detailed Estimate No. of 1869-70

District Tinnevelly

Work.— Constructing Jetty at Tuticorin

Particulars of Work		Measurements Length	Breadth	Height	Content.
Foundation					
	Abutment	18	3	6	324
	Wings	31	3	6	558
Superstructure					
	Abutment	18	2	5	180
	Wings	31	2	3½	217
	Coral Stone in Chunam	1079			1279
	Being Equal to	Cft.			47 20/27
Wood work					
66	Uprights 1 ft D.	area 39/50		1099	857 11/50
4	D. 1 D.	39/50		54	42 6/50
29	Cross Beams 18' each	522	½	¾	195 ¾
2	Beams 48' in length	96	½	¾	36
2	Tie Beams 18' do	36	½	¾	13 ½
6	Joists 320	1920	¼	½	240
10	D. 18'	180	¼	½	22 ½
2	Beams 5'	10	½	¾	3 ¾
4	Side frames 12'	48	¼	1	12
14	Steps 5'	70	¾	¼	13 ⅛
104	Struts 11'	1144	⅓	3/16	71 ½
14	D. 19½	273	⅜	¼	25 19/32
	Planks between joists & over beams	1132	1/12	½	47 ⅙
	Ayaney or Vangay wood	Cft.			1580 541/2400

Planks over Jetty	320	18		5760
	30	18		540
Ayany or Vangay wood Planks 2½ inches thick fitted with Square headed iron nails Superft				6300
Copper Work				
Casing the posts with upper Sheets	803	3 7/7		2525 5/7
Plastering				
Abutments	18		5	90
Wings	31		3½	108½
Pointing Superfeet				198½

Measured 22nd Oct 69 L Lake

Measured 31st Aug 69 L Lake

Abstract Estimate No. of 1869-70

District Tinnevelly

Work Constructing a Jetty at Tuticorin

Quantity	Description of Work	Rate	Amount	
47 10/27	Cubic ft. of Coral Stone in Chunam at	5 8	260	8 7
1580 541/2600	Cubic ft. Ayany or Vangay wood Wrought and put up	3 8	5530	12 7
6300	Superficial Ayany or Vangay wood Planks 2½ inches thick fitted with Square headed iron Nails per Square ft.	14	5512	8
1922 7/7	Superficial Copper Sheet 1922 7/7 lbs	12	1442	2 3
480 5/7	lbs of Copper Nails 480 5/7	12	360	8 6
1922 6/7	lbs Fitting and Nailing Copper Sheets at	1	120	2 10
198½	Superficial Painting per Square	2	3	16 6
	Extra Establishment		300	
	Paving and Pitching		300	
	Sundries		669	5 9
	Total Estimate Rupees		14500	

Asst Surveyor

Captain &c.

Offg Superintending Engineer &c.

1st Range Office
Palamcottah
Camp Tuticorin
30th August 1869

A. Colquhoun

Sub Engineer in Charge of Jetty

1

I do hereby Certify that the above Estimate for Constructing a Jetty at Tuticorin Amounting to Rupees 14500 --- Fourteen thousand and five hundred provides for every thing necessary, and that no Supplementary Works will afterwards be required

A. Clarkson
Sub Engineer in Charge of the Range

Rs 14500-0-0
16/10

Marine 3/12/69

Bill for Rs 14500/0/0
Rec'd 12 of 1869/70.
Rec'd 29 Aug 1870 A. Clarkson

Sub Range
Principally Dockyard
Detailed and Abstract
Estimate for Constructing
a Jetty at Tuticorin.

1

Report accompanying Estimate for a New Jetty at the Port of Tuticorin.

1. Amount of Estimate Rupees 14,500 --- Fourteen Thousand and five Hundred. Comprising the following items:

47 10/27	Cyds of Coral stone in chunam	@ 5.8	260.8.7	
1580 501/2400	cubic feet Ayany wood wrought and put up	@ 3.8	5530.12.7	
6300	Superficial Ayany or Vangay Planks 2½ inches thick filled with Square headed iron Nails per Superficial foot	@ 14	5512.8	
2523 5/7	Superficial Copper Sheets 1922 6/7 lbs	at @ 12	1442.2.3	
480 5/7	lbs of Copper Nails	at @ 12	360.8.6	
1922 6/7	lbs Fitting and Nailing on Copper Sheets lbs	at @ 1	120.2.10	
198 1/2	Superficial Pointing with chunam to Abutment and Wings per	@ 2	3.13.6	
	Taring and pitching		300	
	Extra Establishment		300	
	Sundries		669.2.9	
	Total Estimate Rs		14500	

A. Abutment at shore end to be raised to level of uprights, on a foundation 6 feet deep with 2 water wings.

B. (31) Rows, or 66 Timber uprights, to be 13', 14½, 15', 16½, 17', and 17½ feet respectively, of which 6 feet

is let into Soil Consisting of Sand and Clay, as shewn in Section. The uprights are to be sheathed with Copper Sheets up to high water level, to protect them from the Corrosive action of Salt water _____

C. _____ (37) Cross, and tie beams, brace the uprights, and are 18 feet long by 6" inches broad, and by 9" inches deep. _____

D. _____ (196) Longitudinal joists are placed, 3 fet from Centre to Centre, over the Cross beams. 10 to 18 fet long, 3" inches broad by 6" inches deep. —

E. _____ (124) Diagonal ties or Struts, are provided, as shewn in cross section, 11 to 19½ feet, by 4" inches by 2¼ inches. _____

F _____ The Flat form is to Consist of planks 2½ inches thick laid diagonally, and will be 5' 8½" above High water. _____

G. — (2) Stairs to be 4½ feet broad as shewn in plan —

— The present Jetty is not only inconvenient for the Commerce of the day, and this Port, but is fast decaying. It is not a Strongly Continued structure, and is wanting in Solidity. _____

— The proposed Structure will extend 69 ft into the sea, and boats will be able to discharge and load at the Head with Safety. It will be more capacious, and being well braced, will be more Solid. _____

— The trade of the Port, as shewn by Statistical Returns was, last year, as follows —

— The value of Exports last year amounted to Rupees 101.83.157, and of Imports Rs 18,36,581 about 23,438 tons, equal to 117,194 Bales, of Cotton, were exported, and 525 Vessels loaded and discharged in the Roads. — The Export duty realized was Rupees 15411, and Import Rupees 71000, or an aggregate of Rupees 86414. — The extent of Port funds in hands is Rupees 23823. —

1st Range Office
Palamcottah
Camp Tuticorin
30th August 169

A. Colquhoun
Sub Engineer in charge of 1st Range.

Under my part

Capt R.E.

Offg Superintending Engineer 8th Circle

Proceedings of the Madras Government, Marine Department, 16*th October* 1869.

No. 30. Read the following letter from the Acting Master Attendant, Madras, to the Acting Secretary to Government, Fort Saint George, dated Madras, 27th September 1869, No. 5505.

Administrative Department.]

I have the honour to forward, herewith, for the consideration of Government, plan, estimate, and report accompanying estimate, for a new jetty proposed to be constructed at the port of Tuticorin, at a cost of Rupees 14,500.

2. The above work is doubtless a very necessary and useful one, but I cannot help thinking that an iron screw-pile jetty, of similar construction to the one in course of preparation for Calicut, would answer far better, and in the end prove more economical.

3. In forwarding the above-mentioned documents, the Officiating Superintending Engineer, 8th Division, states that "the old jetty is rapidly decaying. It was built in 1866, and almost all the wooden-posts have been destroyed by insects, and the action of the salt-water." The advantage of having iron screw-piles is thus very apparent.

4. Rupees 7500 might be contributed from Port Funds towards this work in budget-estimate for 1870-71.

No. 31. ORDER THEREON, 16th October 1869, No. 269.

The Government are disposed to concur with the Acting Master Attendent in his opinion that a screw-pile jetty would be more durable and eventually more economical than the wooden structure which it is now proposed to erect at Tuticorin. They observe that it is stated that the existing wooden-jetty, which was erected in 1866, has been destroyed by the action of sea water and insects; and it does not appear whether the copper sheathing with which it is proposed to cover the piles supporting the new one, will be efficient to protect them from the action of the latter, though it possibly might from that of the former.

2. Before passing orders on the present proposal, the Government resolve to refer these papers to the Public-Works Department with a request that the Superintending Engineer, 8th Division, may be called on to report regarding the Acting Master Attendant's suggestion, and to furnish an estimate of the cost of an iron screw-pile jetty.

(True Extract.)

Actg. Secy. to Govt.

To the Public-Works Department, with enclosures.
,, Master Attendant, Madras.

Exd. J. Wright.

Ckd 4399

Govt. of {1869} Madras.

PUBLIC WORKS.

To The Superintending Engr.
8th Division

&c., &c., &c.

Dated

Recd. Encl. 4 1 Plan

G. O. 22nd Oct 1869, No. 3409

3-E-Read

Nos. 464-465

Iron screw-pile jetty at Tuticorin

Rc: Marine Dept. calling an estimate of the cost of an iron screw-pile jetty at Tuticorin, Tinnevelly Dist. Comn. to the Offr. Concerned with instructions.