

741

*Proceedings of the Madras Government, Revenue Department,
8th May 1872.*

Read the following papers:—

No. 68. Proceedings of the Board of Revenue, dated 30th April 1872.

Read the following letter from the Collector of South Canara, to the Secretary to the Board of Revenue, dated Mangalore, 23rd April 1872, No. 483.

WITH reference to the marginally noted correspondence⁽¹⁾, I have the honour

- (1) Board's Procs., 22nd Feb. 1869, No. 1,194.
To Board, 22nd January " " 1,522.
Board's Procs., 6th March " " 1,522.
To Board, 4th November " " 1,429.
Board's Procs., 10th Jan. 1870, " 154.
To Board, 11th November " " 1,453,
paragraph 6.
Board's Procs., 19th Dec. " " 7,206.

(2) List of Enclosures.

1. Estimate for constructing 5 groynes, Rs. 4,450.
2. Survey Plan of Mangalore Harbour.
3. " " (B.) of the Salt Kotars at Mangalore.
4. Levels to accompany estimate for construction of groynes.
5. Section of No. 1 groyne.
6. Sketch of Mangalore quay.
7. Letter from Mangalore Range Officer, dated 26th February 1872, No. 712.
8. Superintending Engineer's covering letter, 28th March 1872, No. 43.

to submit, for the early sanction of the Board and Government, plan and estimate⁽²⁾, amounting to Rs. 4,450, for the protection of the salt depôt yard at Mangalore, which forms the first item in the list of salt-works proposed for execution in this district during the current official year (1872-73), and submitted for sanction by my predecessor on the 23rd August last.

2. In previous correspondence the Board have already been informed of the emergent character and necessity for the work, as the revetment sustains damage from year to year from the monsoon floods, endangering the safety of the

public buildings standing thereon and their valuable contents.

3. In 1869 a portion of the revetment in question having suddenly fallen in, a sum of Rs. 100 was expended in repairing it, but the repairs were by no means of a durable nature, and on the next outbreak of the monsoon another Rs. 150 had to be laid out in erecting a stone-buttress to protect it, which, however, only served to check the action of the water for the time.

4. The revetment has since suffered, and unless immediate steps are taken to protect it against the approaching monsoon, it is feared serious consequences may ensue.

5. Colonel Farewell, who recently made a tour of this district, took the opportunity of personally and closely examining the work, and has come to the conclusion that to protect the salt depôt yard effectually, it is necessary to throw out a groyne at some distance further up the river, so as to connect a rock in the bed of the river with the main land, whereby the current in the river will be diverted, and the exposed points of the salt depôt yard recessed. The place where the groyne is proposed to be built is marked L M on the survey, forming Enclosure No. 2 to this letter. The engineer thinks the construction of this groyne will probably cause the whole space between it and the salt-yard to silt up, and I conclude from his remark that he does not think it is calculated to deposit silt any further than the angle of the salt-yard, so as to prevent vessels from laying along side in deep water as heretofore. But if it should, the anticipated difficulty can be got over by means of a jetty.

6. As shown in the survey, the spit of sand separating the back-water from the sea opposite the depôt is gradually narrowing at each recurring monsoon, and

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8th May 1872.*

it is very likely that the construction of the groyne above alluded to will tend still further to reduce its breadth, if not to cut it away at once, in which case the prospects of the harbour will be seriously affected. To counteract the effects of this groyne Colonel Farewell has provided in the estimate for the construction of four short groynes on the opposite shore at the places marked F E J K on the survey,* which, it is believed, will sufficiently protect it from the currents which will necessarily be forced in their direction from L M, and this provision is, in my view, the most important part of his whole plan, and the part most emergently to be undertaken. The delay of a single monsoon may destroy our prospects of a harbour by causing the river to burst a way for itself here.

* Enclosure No. 2.

7. With the view of deepening the water close to the Bunder, it is proposed to lengthen these groynes eventually, so that in addition to the protective part they have first to play, they will then turn the current towards the Bunder, and thus deepen that portion of the back-water. Colonel Farewell informs me that an estimate for this work is being prepared, including the construction of certain temporary bush and pile groynes at the places marked C H I on the plan. As these works are more directly connected with the general improvement of the harbour, I propose to address Government separately on the subject, as soon as the estimate is received.

8. In the meantime as the present work is one of great emergency, and the Superintending Engineer suggests that it should be put in hand at once, in order that it may be completed before the monsoon, I have the honour to request that sanction may be obtained for the same at the earliest practicable date.

9. The allotment proposed for the work in my Budget-estimate, which I trust has been retained by the Board in their general list submitted† to Government, exceeds the cost now estimated by Rs. 2,050. I trust, however, that the whole allotment may be secured, as in the event of the surplus not being required for this work, it may be usefully employed in partitioning and repairing Salt Kotars in this district, for which the Board have recently called for an estimate.

10. As the work is one obviously requiring professional skill in its execution, I have the honour to request that the Board will be pleased to arrange for the transfer of the necessary funds to the Public Works Department.

Telegram from Collector of South Canara, to Secretary, Revenue Board, dated 29th April 1872, No. 416.

My letter No. 483 of 23rd April. Engineer reports, and I thoroughly concur that the whole harbour is in imminent danger of being ruined by a fresh breach to the south in the first flood of the monsoon if short protective groynes are not built before the monsoon at the weak point on the sand. Immediate

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8th May 1872.*

funds therefore sought. If salt funds not available, Rs. 7,000, or half fourteen thousand available for immediate transfer in the Port Fund Budget.

THE letter and telegram above recorded will be submitted to Government and sanction requested for the estimate.

2. It is a question whether part of the expense should not be born by the Port Fund as it is evident from the telegram that it is the harbour which is in the most imminent danger, and the Collector will report further as to this.

3. In the meantime however as the emergency is pressing he will be authorized to proceed with the necessary repairs by telegram in anticipation of the sanction of Government. It is observed that the full amount required has been provided in the List of Petty Construction and Repairs (No. 60.)

4. Resolved accordingly that the following telegram be despatched:—

“Your telegram, No. 416, dated 29th April 1872.

2. Proceed with the necessary repairs in anticipation of sanction.”

REFERRED to the Chief Engineer for his remarks.

(Signed) W. HUDLESTON,
Officiating Chief Secretary.

1st May 1872.

No. 69. Memorandum by Chief Engineer, Public Works Department, on letter from Collector of South Canara, to Secretary to the Board of Revenue, No. 483, of 30th April 1872, No. 19.

I AM of opinion that, if the angle of the salt dépôt yard at Mangalore cannot be locally protected by piling or stone-work, but only by deflection of the river-current through the agency of a groyne, such deflection is not likely to ensue from any work short of connecting the rock marked C in the large survey with the main land, which it is not otherwise desirable to do. Moreover, connecting the rock M perpendicularly with the main land by a groyne, instead of by the proposed wharf wall L M will have at least as good an effect as the latter, at one-fourth the cost. I would therefore propose sanction of the following estimate:—

Groyne A M in Plan B.

Lower portion ...	$40 \times 5 \times 3\frac{1}{2} = 700$ cubic yards, at Rupee 1	Rs. 700
Upper „ ...	$40 \times 1\frac{1}{4} \times 1 = 50$ „ „	Rs. 75
		Rs. 775
		Sundries... 75
		Total... 850

2. The subject of the rest of the letter has already been disposed of in Government Order No. 1,065 of 20th April.

(Signed) G. W. WALKER, Colonel, R.E.,
Chief Engineer.

3rd May 1872.

7 May 1872

Proceedings of the Madras Government, Revenue Department,
8th May 1872.

No. 70. Proceedings of the Madras Government in the Public Works Department.

Directing Superintending Engineer of the 7th Division to act in accordance with the views expressed by the Chief Engineer in the construction of protective works to the Mangalore harbour. (Here enter 24th April 1872, No. 1,065.)

No. 71. ORDER THEREON, 9th May 1872, No. 741.

Separate Revenue, No. 4.

Salt.

ORDERED that the memorandum of the Chief Engineer be communicated to the Collector of Canara, through the Board of Revenue, with copy of G. O., 24th April 1872, No. 1,065, Public Works.

2. The Government sanction the execution of the work advocated by Colonel Walker for the protection of the Salt Kotar platform, at an estimated cost of Rs. 850, to be charged against Salt Petty Construction and Repairs.

3. The Board have cancelled their telegraphed instructions to proceed with the other work in anticipation of sanction.

(True Extract.)

(Signed)

W. HUDLESTON,

Officiating Chief Secretary.

To the Board of Revenue.
,, the Public Works Department.
,, the Accountant-General.



Read the following papers Revenue Department.

Proceedings of the Board of Revenue.
Dated 30th April 1872.

Read the following.

N^o 403.

From.

A. S. Thomas Esq^r

Collector of South Canara

To J. Grose Esq^r

Secretary to the Board of Revenue.

Sir,

With reference to the marginally noted

- (1) Board's Pro: 22nd Feb^r 1869. N^o 1194
To Board, 22nd Jan^y 1869. N^o 1523
Board's Pro: 6th March 1869. N^o 1523
To Board 4th Nov^r 1869. N^o 1429
Board's Pro: 10th Jan^y 1870. N^o 154
To Board 11th Nov^r 1870. N^o 1453. Para b.
Board's Pro: 19th Dec^r 1870. N^o 7206.

(2) List of Enclosures.

1. Estimate for constructing five groynes. Rs 4450.
2. Survey Plan of Mangalore Harbour
3. Survey Plan (B) of the Salt Stacks at Mangalore.
4. Levels to accompany Estimate for construction of Groynes.
5. Section of N^o 1 Groyne.
6. Sketch of Mangalore Quay.
7. Letter from Mangalore Range Officer dated 26th February 1872. N^o 712.
8. Sup^r Engineer's covering letter 28 March 1872. N^o 43.

correspondence, I have the honour to submit for the early sanction of the Board and Government, Plan and Estimate, amounting to Rs 4450. for the protection of the Salt Depot yard at Mangalore, which forms the first item in the List of Salt works proposed for execution in this District during the current official year (1872-73) and submitted for sanction by my predecessor on the 23rd August last.

2. In previous correspondence since the Board have already been informed of

of the emergent character and necessity for the work, as the revetment sustains damage from year to year from the monsoon floods, endangering the safety of the public buildings standing thereon and their valuable contents.

3. In 1869, a portion of the revetment in question having suddenly fallen in, a sum of Rs 100 was expended in repairing it; but the repairs were by no means of a durable nature, and on the next outbreak of the monsoon, another 150 Rs had to be laid out in erecting a stone buttress to protect it, which however only served to check the action of the water for the time.

4. The revetment has once suffered, and unless immediate steps are taken to protect it against the approaching monsoon, it is feared serious consequences may ensue.

5. Colonel Farewell who recently made a tour of this district took the opportunity of personally and closely examining the work, and has come to the conclusion that to protect the Salt Depot yard effectually, it is necessary to throw out a groyne at some distance further up the river, so as to connect a rock in the bed of the river with the main land, whereby the current in the river will be diverted and the exposed points of the Salt Depot yard passed.

The

The place where the groyne is proposed to be built is marked L.M. on the Survey forming Enclosure N. 2 to this letter. The Engineer thinks the construction of this groyne will probably cause the whole space between it and the Salt yard to silt up, and I conclude from his remark, that he does not think it is calculated to deposit silt any further than the angle of the Salt yard, so as to prevent vessels from laying alongside in deep water as heretofore. But if it should, the anticipated difficulty can be got over by means of a jetty.

6. As shown in the Survey, the spit of sand separating the back-water from the sea opposite the depot is gradually narrowing at each recurring monsoon, and it is very likely that the construction of the groyne above alluded to will tend still further to reduce its breadth if not to cut it away at once, in which case the prospects of the harbour will be seriously affected. To counteract the effects of this groyne Colonel Farewell has provided in the Estimate for the construction of four short groynes on the opposite shore at the places marked F. E. J. K. on the Survey, which it is believed will sufficiently protect it from the currents

(3) Encls. N. 2.

which

which will necessarily be forced in their direction from I.M., and this provision is in my view the most important part of his whole plan, and the part most emergently to be undertaken.

The delay of a single monsoon may destroy our prospects of a harbour by causing the river to burst a way for itself here. *Probably the best way for the harbour that ever happened*

7. With the view of deepening the water close to the Bunder, it is proposed to lengthen these groynes eventually, so that in addition to the protective part they have first to play they will then turn the current towards the Bunder and thus deepen that portion of the backwater. Colonel Farewell informs me that an Estimate for this work is being prepared including the construction of certain temporary bush and pile groynes at the places marked C.H.I. on the plan. As these works are more directly connected with the general improvement of the harbour, I propose to address Government separately on the subject, as soon as the Estimate is received.

8. In the meantime as the present work is one of great emergency, and the Superintending Engineer suggests that it should be put in hand at once, in

order

order that it may be completed before the monsoon, I have the honor to request that sanction may be obtained for the same at the earliest practicable date.

(4)
Board's Res. 4 March
1872 N. 405.

(5)
Board's offl. Memo.
N. 475 of 13 April 1872

9. The allotment proposed for the work in my Budget Estimate, which I trust has been retained by the Board in their General list submitted to Government, exceeds the cost now estimated by Rs 2050. I trust however that the whole allotment may be secured, as in the event of the surplus not being required for this work, it may be usefully employed in partitioning and repairing Salt Stacks in this District for which the Board have recently called for an estimate.

10. As the work is one obviously requiring professional skill in its execution, I have the honor to request that the Board will be pleased to arrange for the transfer of the necessary funds to the Public Works Department.

South Canara collector's office
Mangalore 33 April 1872

I have &c.
10/4 M. S. Thomas
Collector

Read

Read also the following:
Telegram from the collector of South
Sulara to the Secretary, Revenue Board,
dated 29th April 1872. N^o 416.

" My letter number (483) of (23rd) April.
Engineer reports and I thoroughly concur
" that the whole harbor is in imminent danger
" of being ruined by a fresh breach to the
" South in the first flood of the monsoon
" if short protective groynes are not built
" before the monsoon at the weak point
" on the sand. Immediate funds therefore
" sought - If Salt funds not available,
" Rupees (7,000) or half fourteen thousand
" available for immediate transfer in the
" Port Fund Budget. "

The letter and telegram above
recorded will be submitted to Government
and sanction requested for the estimate.

2. It is a question whether part
of the expense should not be borne by
the Port Fund as it is evident from the
telegram that it is the harbor which
is

is in the most imminent danger, and
the collector will report further as to this.

3. In the meantime however as the
emergency is pressing, he will be authorized
to proceed with the necessary repairs by
telegram in anticipation of the sanction of
Government. It is observed that the
full amount required has been provided
in the List of Petty Construction and Repairs
(N^o 110)

4. Resolved accordingly that the
following telegram be despatched -

Your telegram N^o 416 dated 29 April
1872.

Have an
repair.

Proceed with the necessary repairs in
anticipation of sanction.

The enclosed papers (True Copies & Extract)

Dr. Sam. Lue dry wa disty
Kipw. Supp. Sec. by J. W. Cunningham

Shp the three papers to the
action of the Sec. to the Secretary.

The offg. Chief Secretary to Government
Revenue Department
with 8 enclosures.

Trails

No. 19.

Memorandum by Chief Engineer,
P.W. Dept. in letter from Collector of South
Canara to Secretary to the Board of Revenue,
No. 483 of 30 April 1872.

I am of opinion that, if the
Angle of the Salt Depot Yard at Mangalore can
not be locally protected by piling or stone work,
but only by deflection of the River current
through the agency of a prague, such deflection
is not likely to ensue from any work short
of connecting the Rock marked C in the large
survey with the main land, which it is not
otherwise desirable to do. Moreover connecting
the Rock M perpendiculary with the main
land by a prague, instead of by the proposed
wharf wall L. M., will have at least as good
an effect as the latter, at one fourth the cost.
I would therefore propose sanction of the

No. 68

Approved by the Chief Engineer
his signature. J. H. ...
1.5.72

Meeting of the
Board of Revenue
1872 Dec
21/520

Recd 30 April 1872.
Depto. 30
Recd. 21 May
Submitting for
estimate from
Cell of J. Canara &
certain works against
for the protection of
the Salt Depot and
harbour at ...
S.O. No. 741 of
S.O. No. 741 of
the ...

Order 1872

Bot. of 1872

REVENUE.

THE BOARD OF REVENUE.

cc. cc. cc.

Order May 8th

G. O. 8th May 1872, No. 741

MAY.
Nos. 68-71.

Salt Kolar Plot/own at Mangalore - Ex-
tension of the work authorized by Colonel Walker
for its protection at an estimated cost of Rs. 850
sanctioned.

C. B. ...

following estimate.

Grayne A.M. in Plan B.

Lower portion: $40 \times 5 \times 3\frac{1}{2} = 700$ Cubic ft. at R.R. ^{R.R.} 700

Upper - do - $40 \times 1\frac{1}{4} \times 1 = 50$ - $1\frac{1}{2}$ ^{R.R.} 75

Sundries - ^{R.R.} 75

Total R.R. 850

The subject of the rest of the letter
has already been disposed of in G.O. No. 1065-
of 20 April.

W. W. Walker (C. S. P.)

Chief Engineer

P. M. Dept.

3rd May/72.

Harbort. Who D.
Specimen? Has put on A.
The G.O. was not comm?
to Rec. Dept. Spare copy submitted

Revenue Department.

No. 741

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 8th May 1872

Read the following papers

Proceedings of the B^d of Revenue.

Submitting for sanction estimate from Col^r of S. Canara for certain works required for the protection of the Salt Dept yard & harbour at Mangalore.

N. E. 30th April 1872

Memo by Chief Engr. P. W. Dept.

On certain works required for protection of the Salt Dept yard & harbour at Mangalore

N. E. 3rd May 1872 N. 19.

Proceedings - Public Works Dept.

Directing Sup^r Engr of the 7th Div to act in accordance with the views expressed by the Chief Engr in the construction of protective work to the Mangalore Harbour

N. E. 24th April 1872 N. 1065.

Ordered that the Memo of the Chief Engineer be communicated to the Collector of Canara, thro' the B^d of Revenue, with copy of G. O. 24th April 1872 N. 1065, Public Works.

The Gov^t sanction the execution of the work associated by

Sal

Revenue 1872 Sept

No 1549

Item

The Public Works Dept

Volat 3rd May
Recd. 3rd May

Not

Memorandum by
Chief Engineer, P. W. Dept.
regarding certain works
required for protection
of the Salt Dept yard
& harbour at Mangalore
S. O. No 741-8 May

No 69

C. 6. 9. 1872. R. 7. 1872. May
C. 6. 9. 1872. R. 6. 1872. May

by Col. Walker for the
protection of the Salt
Kotan platform, at an
estimated cost of Rs 850,
to be charged against
Salt, Petty Construction
and Repairs.

3 The Board
have cancelled their
telegraphed instructions
to proceed with the other
work in anticipation
of sanction.

L.B.

16. Board of Revenue Desd. 10 May 1872
21. P.W. Depto Desd. 11 May 1872
6. Accts. Genl.

Encl. 1/1