

(1) Number of pages 221
 (2) Date of repair 11.8.86
 (3) Initials of the Referencer law

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

RW DEPARTMENT

G.O. No.	2835 W	Press.
B.P. No.		Mis.
Dated	11.7.1878	297

law ✓

Not to be folded or roughly handled

6. In order to obtain a larger supply of sea water than was being received through the shoaled and narrowed bar channel I had a fresh one excavated between it and the groyne 150 feet wide and from 6 inches to a foot below the level of low water in the backwater. The eastern extremity of this excavation was protected by sand bags and a bank of sand until low tide of Saturday, the 1st of June, which was the day of the new moon. The bank and sand bags were then removed and the sea admitted. On Sunday, June 2nd, the sea water was flowing in from 6 A.M. until 5 P.M., and recommenced to flow in again at 6 P.M., and it was still flowing in at 6-45 A.M. on Monday, June 3rd. I then had the crest of the sand bank between the old bar channel and the new cut, removed so as to allow the sea water to flow in over it. The result was that the two streams were united at and near high tide, and at 11-30 A.M. on the 4th June a stream of water 312 feet wide and having a maximum depth of 3 feet and 9 inches was flowing in. As it passed towards the backwater this stream got wider and shallower, and flowing down a steep incline attained a velocity of not less than 6 feet per second. The fishermen were standing in it spearing fish brought in from the sea. I was glad to learn that they succeeded in spearing several fine fish, as I had anticipated that with a closed bar the supply of fish to the backwater would be cut off, and that the water which we were bringing in at spring tide would not bring many fish with it.

7. I enclose estimates of the cost of the cuttings executed previous to the new moon in June and to be executed previous to the full moon in June, and I have the honor to request sanction for the same.

The first amounting to Rupees 1,160
The second amounting to Rupees 1,800

Total Rupees ... 2,960

8. I have also the honor to forward copies of the registers of the readings at two tide gauges—one in the backwater inside the bar channel and the other in the backwater near Nabob's bungalow.

Two registers of gauges.
One reading.

It will be seen that on the 12th June there was a variation of only half an inch opposite the Nabob's bungalow, and that the level of the water surface, which was still as high as 1 foot 3 inches on June 5th, had fallen again to 11½ inches on June 12th.

9. The results of opening the bar during the full moon of June will be reported on hereafter.

10. I am not sure that it will be advisable to make any further attempts to let sea water into the backwater this season, as I am under the impression that the Salt Department can manage to supply their pans with all the salt water they require this year from the backwater as it is. I have written to the Collector on this subject.

No. 122. ORDER THEREON, 11th July 1878, No. 2,835 W.

The following estimates submitted by the District Engineer, Chingleput, with the foregoing letter are sanctioned:—

	RS.	Register No.
Opening the Ennore bar	1,160	49 B of 1878-79
Do. do.	1,800	50 B of 1878-79

and funds are provided by the transfers shown below:—

From Item No. 37 of the Imperial Buildings and Roads Budget for 1878-79	Rs. 1,000
From Item No. 38 of the Imperial Buildings and Roads Budget for 1878-79	1,000
From Item No. 39 of the Imperial Buildings and Roads Budget for 1878-79	960
Total	2,960*

* Subject to the approval of the Government of India.

2. A further report will be awaited as to whether a continuance of these operations is considered necessary by the Salt Department.

3. This sanction has been registered as Imperial and numbered as shown above.

(True Extract.)

(Signed)

E. A. FOORD, Colonel, R.E.,
Secretary to Govt., P.W.D.

(True Copy.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the District Engineer, Chingleput.

Nellore.

" Examiner of Public Works Accounts.
" Revenue Department.

Encl. T. D. Ryan.
Spare Copies

Register of Gauges at Lemore Bar

From 28th May to 4th June 1878.

Month and date	Tide	Measure at Lough	Measure at Lemore Bar	Month and date	Tide	Measure at Lough	Measure at Lemore Bar
1878 May 28	6 AM	u 8 1/4	u 8 1/4	1878 May 31	6 AM	u 7 3/4	u 8
	7	u 8 1/2	u 8 3/4		7	u 8	u 8 1/2
	8	u 8 3/4	u 9		8	u 8 1/2	u 8 3/4
	9	u 9	u 9		9	u 9	u 9
	10	u 9	u 8 3/4		10	u 9	u 9
	11	u 8 3/4	u 8 1/2		11	u 9	u 9
	12	u 8 1/4	u 8		12	u 9	u 8 3/4
	1 PM	u 8	u 8		1 PM	u 9	u 8 3/4
	2	u 8	u 8		2	u 8 1/2	u 8 1/2
	3	u 8	u 8		3	u 8 1/4	u 8 1/2
	4	u 8	u 8		4	u 8	u 8 1/4
	5	u 8	u 8		5	u 8	u 8 1/4
	6	u 8	u 8		6	u 8	u 8
29	6 AM	u 8	u 8 1/4	June 1	6 AM	u 8	u 8
	7	u 8	u 8 1/2		7	u 8 1/2	u 8 1/2
	8	u 8 1/4	u 8 3/4		8	u 8 3/4	u 8 3/4
	9	u 8 3/4	u 9		9	u 9	u 9
	10	u 9	u 9		10	u 9	u 9
	11	u 9	u 8 1/2		11	u 9	u 9
	12	u 9	u 8 1/2		12	u 8 3/4	u 9
	1 PM	u 8 3/4	u 8		1 PM	u 8 1/2	u 9
	2	u 8 3/4	u 8		2	u 8 1/4	u 8 1/2
	3	u 8	u 8		3	u 8 1/4	u 8 1/2
	4	u 8	u 8		4	u 8	u 8 1/4
	5	u 8	u 8		5	u 8	u 8 1/4
	6	u 8	u 8		6	u 8	u 8
30	6 AM	u 8	u 8	2	6 AM	u 8	u 8
	7	u 8 1/4	u 8 1/2		7	u 8	u 8
	8	u 8 1/2	u 8 3/4		8	u 8 1/4	u 8 1/2
	9	u 8 3/4	u 8 3/4		9	u 8 1/2	u 10
	10	u 9	u 9		10	u 9	u 11
	11	u 9 1/4	u 9		11	u 9 1/2	u 11
	12	u 9	u 9		12	u 10 1/2	u 11
	1 PM	u 8 3/4	u 8 3/4		1 PM	u 11	u 11
	2	u 8 1/2	u 8 3/4		2	u 10	u 9
	3	u 8 1/4	u 8 1/2		3	u 9 1/2	u 8
	4	u 8	u 8 1/2		4	u 9	u 8
	5	u 8	u 8		5	u 9	u 9
	6	u 8	u 8		6	u 9	u 10

(True copy)

Thomson Colonel R.E.
Super Engineer, Chingdeput.

11/3/78

N. 2292.

Chingdeput Super Engineer's office
Laid this month 24 June 1878.
Camp Madras to the north.

From

The Superintending Engineer

Chingdeput 8/10

To

The Chief Engineer for
Buildings and Roads.

Sir,

I have the honor to acknowledge the receipt of your Memorandum N. 203 I dated 27th May 1878 calling upon me to report whether the work at the groyne at Lemore had been completed, and whether any expenditure necessitating a provision of funds, has been incurred during the present official year.

2. In reply I have the honor to report that it has been necessary to spend money in addition to the sum of Rs 700 for which an estimate was forwarded by me on the 20th May 1878.

3. On the 22nd May I received from the Acting Collector a copy of a letter N. 400 from the Sub Deputy Collector of Chingdeput forwarding Mr. Heger from the Superintendent of Salt of the Waller Division, reporting that the

bar at Lemore was likely to close in about a week or so, if no immediate steps were taken to prevent the formation of a shoal on the North of the grove. This was forwarded to me with the request that I would issue such orders as I might deem necessary to secure the Lemore bar.

34. In order to form a correct opinion as to the best measures to adopt under the circumstances I proceeded to Lemore on the 24th. While there, I visited the salt pans and found that these were supplied with water, not directly from the backwater, but from canals along which the water is led up to the peottahs, by means of which it is then lifted into small channels leading to the pans. The Salt Superintendent wished the Lemore bar to be kept open in order to bring a regular supply of salt water into the backwater and thus to keep up its level, and prevent the canals leading to the peottahs running dry.

5. On the morning of the 25th May the bar channel was still open, on the bar itself there was about six inches of water at low tide, but within the bar the water deepened to two

feet six inches (2-6") in the centre of the channel, the surface width of which was 40 feet. The bar has remained open in the absence of rain quite as long as I expected, when I addressed you in my letter to 123rd dated 27th March 1878, but as no heavy rain has fallen, it has not been deepened again. The results obtained are no doubt due to the cuttings executed, and to the grove commenced in March last. The latter has stopped a large mass of sand which would otherwise have passed on to the bar and into the bar channel. The stakes driven into the sand to the South of the grove are all covered showing that the beach has been raised at least five feet since I last saw the grove. A considerable amount of sand has also passed over and to the North of that work. On the 22nd of March not more than twenty feet in length of the grove was in sand, the surface of which was dry at high water. On the 25th May, about a hundred and six (106) feet of its length was above high water mark, and hundred and eighty one

(181) feet in length was above low water mark. It is probable that two or perhaps three such groynes would have prevented a material shoaling up of the bar channel before the end of May, but after the S. W. Monsoon has thoroughly set in sand travels up the coast more rapidly than it does in the early months of the year, and experiment alone could teach us how many groynes would suffice to completely check the flow of sand at a given point on the Madras Coast.

6. In order to obtain a larger supply of sea water than was being received through the shoaled and narrowed bar channel, I had a gash or excavation between the groyne (150) one hundred and fifty wide and from six inches to a foot below the level of low water in the backwater. The eastern extremity of this excavation was protected by sand bags and a bank of sand until low tide of Saturday the 1st of June which was the day of the new moon. The bank and sand bags were then removed and the sea admitted. On Sunday June 2nd the sea water

was flowing in from 6 A.M. until 5 P.M. and recommenced to flow in again at 6 P.M. and it was still flowing in at 6.45 A.M. on Monday June 3rd. I then had the crest of the sand bank between the old bar channel and the new cut removed so as to allow the sea water to flow in over it. The result was that the two streams were united at and near high tide and at 11.30 A.M. on the 4th June a stream of water $3\frac{1}{2}$ (three hundred and twelve) feet wide and having a maximum width of 3-7 (three feet nine inches) was flowing in. As it passed towards the backwater this stream got wider and shallower, and flowing down a steep incline, attained a velocity of not less than 6 feet per second. The fishermen were standing in it spearing fish brought in from the sea. I was glad to learn that they succeeded in spearing several fine fish, as I had anticipated that with a closed bar the supply of fish to the backwater would be cut off, and that the water, which was being brought in at spring tide would not bring many fish with it.

7. I enclose estimates of the cost of the cuttings executed previous to the full moon in June and to be executed previous to the full moon in June and I have the honor to request sanction for the same.

The first amounting to Rs. 1,160-0-0
The second " " to Rs. 1,800-0-0

Total Rupees 2,960-0-0

Enc:

Two Estimates
with bill

8. I have also the honor to forward copies of the registers of the readings at two tide gauges one in the backwater inside the bar channel and the other in the backwater near Nabob's bungalow. It will be seen that on the 12th June there was a variation of only half an inch opposite the Nabob's bungalow and that the level of the water surface which was still as high as 11-3 on June 8th had fallen again to 11-1/4 on June 12th.

2 Registers
of Gauges
1 Readings

9. The results of opening the bar during the full moon of June will be reported on hereafter.

10. I am not sure that it will be advisable to make any further attempts to let sea water into the backwater - this, as I am under the impression that the Salt Department can manage to supply

their

their pans with all the salt water they require this year from the backwater as it is, I have written to the Collector on this subject. I have the honor to be

Sir
Your most obedient servant

Wm. Colwell
Supt. Engineer, Chingleput.

CE No 20352/27 May/78
 40 - 16120 - 30 March/78
 " - 1976W - 27 April/78

From the Supt Engr. Chingleput

No 2292.

Dated 24th } June 1878
 GED

Enclosures 3.

Grayne Work at Ennore
 Reporting that
 it is necessary to spend
 more money on the

To Advy 27-6-78
 To Advy again 8-7-78
 Cir 10-7-78

Public Works Department
 No 2835
 PROCEEDINGS OF THE MADRAS GOVERNMENT.
 UNDER date the 11 July/78

Read the following:-
 From the Supt Engr. Chingleput (H. No 1909 of 20 May 1878)
 From the Supt Engr. Chingleput (H. No 2292 of 24 June/78)

The following estimates
 submitted by the District
 Engineer, Chingleput, in the
 foregoing letter are
 sanctioned.

Opening the Ennore Pass.
 Do.

1903 Rs. 1160
 1800 Rs. 1160

and funds are provided
 by the transfers shown
 below:-

From Item No 37 of the Imperial Buildings Roads Budget for 1878-79	Rs. 1000
Do. Do 38.	Do. 1000
Do. Do 39	Do. 960
	<u>Rs. 2960</u>

+ subject to the approval
 of the Govt of India

A further report
 will be awarded as to

R. I. T. T. T. T.

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

cat 44
4.7.70

This sanction has been registered as an-
nual and numbered
as shown above.

Lucy A. Smith 1847

I would not feel so
 at 20/5 from Cator
 Godalming road and
 the head of the F. R. 2

D^r. E. Thompson
D^r. J. C. Moore
Wm. A. S. 4th St. N.Y.
Rev. Sept. 17

Sept 22 / 18 17

Cir 10-7-78 Recd 11-7-78
Vol. Sheet 9 of 10

7185

Gobt. of (1878) Madras.

PUBLIC WORKS.

To

Dated

Assd.

Recd.

Encl.

G. O. 11 Jny 1878, No. 2835W

No. 127572E

Ennore Bar Chingput But

The estimates for spinning
the — submitted by the D. M.
Chingput, sanctioned.

W. D. M. R.