

(1) Number of pages 6(2) Date of report 29.10.38(3) Initials of the Referencer EF

MADRAS RECORD OFFICE.

Government of Madras.

DEPARTMENT.

G.O. No.	Place Date
Dated	18

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
for the month of January 1860.*

No. 139. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer ;
to the Secretary to Government, dated 11th January 1860, No. 9017.

With reference to the concluding portion of paragraph 5 of Proceedings of Government,
dated 30th August 1859, No. 2078, I have the honor to forward
herewith a letter from the Acting District Engineer of the Go-
dāvari district, from which it will be observed that prior to the
extension of the groynes in the Kākināda Harbour in September 1855, there were only 4½
inches of water on the bar at low water spring tides, but that as the extension of the groynes
progressed, the depth of water on the bar was found to increase. By March 1856, the north
groyne had been extended 475 yards, and the south 450 yards. The depth of water is 18½ feet
at low water at the mouth of the groynes, and not less than 6 feet any where inside and up to
the bridge at low water.

2. Captain Greenaway is of opinion that the proposed lining of the river banks with rough
stone revetments will prevent the silting due to the soft mud washed off the banks and to the
flat on the south side which is submerged at high tide. As the revetment wall will be kept lower
than high water mark where it crosses this flat, the water which covers it will assist in scouring
the channel at ebb.

3. The dredging is required to keep the depth throughout equal and to prevent local ac-
cumulations.

4. The sum of Rupees 18,068 which was sanctioned on emergency in the above mentioned
order has been provided for in the budget for next year, but the estimate of Rupees 41,250
though entered in budget No. 1 of 1860-61, is not allowed in the money for expenditure in next
year.

No. 140. ORDER THEREON, 28th January 1860, No. 225.

As the estimate for completing the improvement of Kākināda
river, ordered* for entry in the budget of 1860-61, does not,
under recent arrangements, now find a place in that budget ;
resolved that this letter do lie over for future consideration.

(Signed) T. PYCROFT,

Chief Secretary.

Central Office of Public Works
 Department 11th January 1860.

N^o 9017

From

The Chief Engineer

To

The Secretary to Government

Public Works Department

"Marine"

Sir,

With reference to the concluding

Enclosure 1.

Letter from the
 Asst. Secy. to Govt. dated 20th Decr 1859
 N^o 578.

portion of Para 5 of Proceedings of Government dated
 30th August 1859, N^o 5078, I have the honor to forward
 herewith a letter from the Acting District Engineer
 of the Godavari District from which it will be
 observed that prior to the extension of the Groyne
 in the Hakinada Harbour in September 1855
 there were only 4 1/2 inches of water on the bar
 at low water spring tides, but that as the
 extension of the Groyne progressed, the depth
 of water on the bar was found to increase.
 By March 1856 the North Groyne had been
 extended 475 yards, and the South 450 yards;
 The depth of water is 4 1/2 feet at low water
 at the mouth of the Groyne, and not less than
 6 feet any where inside and up to the Bridge at
 low

Godavari,

low water.

2. Captain Greenaway is of opinion that the proposed lining of the river banks with rough stone revetments will prevent the silting due to the soft mud washed off the banks and to the flat on the south side which is submerged at high tide. As the revetment wall will be kept lower than high water mark where it crosses this flat, the water which covers it will assist in scouring the Channel at ebb.

3. The Dredging is required to keep the depth throughout equal and to prevent local accumulations.

4. The sum of Rupees 18,680 which was sanctioned on emergency in the above mentioned order has been provided for in the Budget for next year, but the Estimate of Rupees 4,350 though entered in Budget P. 1 of 1860/61 is not allowed in the money for expenditure in next year.

I have the honor to be

Sir,

Your Most Obedient Servant

H. Bell

Chief Engineer

Central Office of P. W.
Sephakram
11 January 1860.

By
J. D. Greenaway
Capt. Greenaway
Chief Engineer

Case 2 of the Committee / Sep. 18 1893

13/15/1893 Dep. Secy
of the Interior
Jan 29 1893

From
the Chief Engineer
of the Secretary to Government
Cattle Works Dept

Letter 11 / January 1890.
Dec 2 / 1893

Mr. [unclear]

Enclosure 1

• 18975. 28th January

Report with reference to
examining states 30th August
1893. It is 20th on the effect
of reducing the Engineer in
the Hawaiian Islands.

1893-1894

1893-1894

With records

1893-1894 225

As the Committee for and the
the improvement of the Hawaiian
Island, ordered for ending in the Hawaiian
Island, does not understand

arrangements, no record of the
in that respect, and that the
to the Hawaiian for purchase and
distribution

W

From W. [unclear]
280 204 900

10 copies of the [unclear] report to
without [unclear]

[unclear]