M.R.O. 1—10,006—28-2-50.

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. / ~~B.P. No.~~	3102-03	Press / ~~Mis.~~
Dated	30-10-1824	—195—

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 30th October 1874.

No. 691. Read the following letter from Colonel J. CROFTON, R.E., Deputy Secretary to the Government of India, Public Works Department, (Civil Works—Irrigation,) to Lieutenant-Colonel J. MULLINS, R.E., Joint Secretary to the Government of Madras, Public Works Department, (Irrigation Branch,) dated Fort William, 15th August 1874, No. 507-I :—

I AM directed to acknowledge the receipt of your endorsements, Nos. 1,761-D and 1,909, dated the 30th June and 15th July, respectively, transmitting copy of remarks by the Chief Engineer for Irrigation and of the Proceedings of the Government of Madras in regard to the recommendations embraced in the memoranda by Colonel Rundall, R.E., on Irrigation Works in the Madras Presidency, forwarded for consideration under Resolution of the Government of India Public Works No. 737 I. of the 13th October last.

2. From the papers forwarded it appears that all the points noted on by Colonel Rundall have been dealt with, with three exceptions, viz. :—

(1.)—Remarks on Cocanada harbour.

(2.)—Irrigation statistics in Zemindaries, which will be found at pages 6 and 7 of his Memorandum No. II., on the Godavery Delta Works; and,

(3.)—The insufficiency of the maintenance establishments on the works of the Madras Irrigation Company;

and I am accordingly to inquire whether the Government of Madras has any observations to make on those subjects.

No. 692. ORDER THEREON, 30th October 1874, No. 3,102.

IRRIGATION, No. 44.

THE District Engineer, Godavery, will be instructed to report, in communication with the Master Attendant, Cocanada, what amount will be required annually for maintaining a sufficient depth of water in the channels of the Cocanada and Coringa rivers. Also, with reference to the remarks of Mr. Robertson, at page 75 of the Report on Indian Harbours, information should be given as to whether any observations have been made since 1871 of the set of the currents sweeping past the mouth of the eastern channel, which runs to the southward of Hope Island.

2. Major Beatty's attention should also be given to Mr. Robertson's observations generally on the measures by which the navigation of the bay and channels may be improved. At the Cocanada river the works recommended by Mr. Robertson are being carried out, and such further works as may from time to time be deemed desirable should be brought forward for sanction.

(Here enter No. 3,103, dated 30th October 1874.)

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the District Engineer, Godavery.
,, Chief Engineer for Irrigation.
Exd. S. T. Austin.
Spare Copies

PUBLIC WORKS DEPARTMENT,
OOTACAMUND, 30*th October* 1874.

No. 693.

No. 3,103.

FROM

COLONEL G. W. WALKER, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
Public Works Department.

IRRIGATION, No. 45.

		RS.
Harbour Improvements		10,000
Dredging the Bar		*5,000
		15,000

* Provincial Repairs.

SIR,—In reply to the letter, No. 507-I, of the 15th ultimo, from the Deputy Secretary, I am directed to state that in the current year Port and Provincial Funds to the extent of Rupees 15,000 have been provided for the improvement and maintenance of the port and entrance to the Cocanada river. One of the two steamers belonging to this service has been placed at the disposal of the Government of India in connection with famine relief operations in Bengal, and the other is temporarily laid up for refitting with a new boiler. I am further to say that such work as may from time to time be found necessary for affording facilities to the trade of the Port will be undertaken.

2. With regard to the shifting of the anchorage to the northward, I am to remark that this is due to the action of the Godavery, which year by year is extending its delta, and it appears to be very doubtful whether any measures which could be taken would do more, at most, than slightly to retard the changes which are taking place. Works for altering the natural direction of the currents by which the silt is deposited would necessarily be costly, and it is not likely that funds would be forthcoming, even were the results of closing the channels of the river, now communicating with the Cocanada harbour, more certain than they appear to be. It will be noticed on referring to Mr. Robertson's Reports on the Indian Harbours, that on the whole he did not anticipate that much could be done to prevent the gradual shifting of the anchorage to the northward, and he was of opinion that the growth of the delta had a tendency to give rather more shelter to Cocanada Bay than is shown in the Chart of 1857.

3. The remarks of the Inspector-General of Irrigation regarding the fact that no Revenue Survey of the Zemindary estates in the delta had been as yet carried out, and that consequently the correctness of the returns of the areas of irrigation in these estates was open to doubt did not appear to call for remark. Much has been done of late years to ascertain more exactly the extent of the delta irrigation, and I am to say that when the improved distribution arrangements, now in course of introduction, shall be further advanced than at present, any material

differences between the actual areas and those shown in the returns will be likely to come under notice and inquiry.

4. With regard to the insufficiency of the establishments employed under the Chief Engineer and Manager, Madras Irrigation and Canal Company, for the efficient maintenance of the Kurnool and Cuddapah Canal, I am instructed to remark, that since Colonel Rundall's visit, the number of officers has been increased from two to three; that the cost of establishments is enormously out of proportion to the outlay on maintenance; and that there has been correspondence on the subject with a view to its reduction. There is every desire that the canal should be properly maintained and worked, but with the present very limited area of irrigation, and consequently the small revenue, it is needful that economy should be enforced, the more so that a great part of the money required for working expenses has to be provided by the State. Information on this subject will be found in the letters and Proceedings as per margin.

Proceedings	No.	440,	dated	23rd Feb.	1874.
Do.	,,	512,	,,	27th ,,	,,
Do.	,,	1,170,	,,	2nd May	,,
Do.	,,	2 063,	,,	30th July	,,
Letter	,,	2,064,	,,	,, ,,	,,

5. Reference is also requested to paragraph 4 of despatch from the Government of India to the Secretary of State, No. 129, of 31st August.

I have the honor to be,

Sir,

Your most obedient servant,

Colonel, R.E.,
Secretary to Government.

Exd. S. T. Austin.

Spare Copies

Public Works Depart.
Proceedings of the Madras Government
Read the following
From the Govt of India
P.W.D. No 504 dated
15th Aug 1874

310

The District Engineer
Godavery, will give com-
munication with the
Master Attendant
Cocanada who is in-
structed to report
what amount will be
required annually
for maintaining a
sufficient depth of
water in the Channels
of the Cocanada and
Coringa rivers - Also
with reference to the
remarks

have been provided for the improvement and maintenance of the Port and Entrance to the Cocanada River. One of the two steamers belonging to this service has been placed at the disposal of the Govt. of India in connection with famine relief operations in Bengal, and the other is temporarily laid up for refitting with a new boiler. I am further to say that such work as may from time to time be found necessary for affording facilities to the trade of the Port will be undertaken.

2. With regard to the shifting of the anchorage to the northward, I am to remark that this is due to the action of the Godavery, which year by year is extending its delta, and it appears to be very doubtful whether any measures which could be taken would do more, at most, than slightly to retard the changes which are taking place. Works for altering the natural direction of the current by which the silt is deposited would necessarily be costly, and it is not likely that

funds would be forth coming, even were the results of closing the channels of the river, now communicating with the Cocanada harbour, more certain than they appear to be. It will be noticed in referring to Mr. Robertson's reports on the Indian Harbours that on the whole he did not anticipate that much could be done to prevent the gradual shifting of the anchorage to the northward, and he was of opinion that the growth of the Delta had a tendency to give rather more shelter

to

Cocanada Bay than is shown in the chart of 1857.

3:- The remarks of the Inspector General of Irrigation regarding the fact that no Revenue Survey of the Zamindary estates in the Delta had been as yet carried out, and that consequently the correctness of the returns of the areas of irrigation in these estates was open to doubt did not appear to call for remark. Much has been done of late years to ascertain

more

more exactly the extent of the Delta irrigation, and I am to say that when the improved distribution arrangements, now in course of introduction, shall be further advanced than at present, any material differences between the actual areas and those shown in the returns will be likely to come under notice and enquiry.

4. With regard to the insufficiency of the establishments employed under the Chief

Chief Engineer and Manager, Madras Irrigation and Canal Company for the efficient maintenance of the Kurnool and Cuddalore Canal I am instructed to remark that since C.H. Randall's visit, the number of officers has been increased from 2 to 3, that the cost of establishments is enormously out of proportion to the outlay on maintenance, and that there has been correspondence on the subject with a

a view to its reduction. There is every desire that the Canal should be properly maintained and worked, but with the present very limited area of irrigation and consequently the small Revenue, it is needful that economy should be enforced, the more so that a great part of the money required for working expenses has been provided by the State.

for the cost of the Establishment: and for Company replied/stated/ to reduce/cut down/ the charge why they should not reduce it. I ord. with the/a/ for the details of the Establishment for the Canal District they required: and a reduction by the Company should in the mean (if this is not done by them) I cannot work as cheaply.

2. On the other hand it appears from Cd.

Pro: Dec 4640 of 23rd July/74
" " 5120 " 27th "
" " 1170 " 2nd May
" " 2263 " 30th July.
Letter " 2064 " " "
b. Capt Dec/28-6/11/74

Information on this subject will be found in the letters and proceedings as per margin.

Mr. 23/9/74

Govt.

Reference is also requested to para 4. of Despatch from the Govt. of India in Min Secy of State, No 129 of 31st August

Govt.

See papers on Public Letters on Irrigation in Punjab

Rundall's statement that the establishment employed on the Canal is excessive

as it is proposed to reduce the efficient maintenance of the Canal.

Mr. Green states that the establishment is (1) extravagant & (2) inefficient. and if so, it requires a thorough revision & redistribution: and it is the interests of the public in the interest of the public

Secretary, Once that this is done. 5/10

[illegible]

the Cabinet [illegible]

[illegible]

[illegible]

to the [illegible]

[illegible].

Hon'ble [illegible]

the establishment [illegible]

[illegible] (2) [illegible]

and [illegible]

[illegible]

[illegible]

691-693

Recd 2[illegible]/9/24 Retd 08/10/24

3-12-18

5326 A

Govt. of 1874 Madras.

PUBLIC WORKS.

To The District Engrs
Godavery
To and
The Secretary to the
Govt of India

Dated

Rec'd. Encl.

G. O. 30 Act. No. 3102.
3103.

Nos. 691-692 & 693

Submitting observations
on Cocanada Harbour.
Irrigation statistics
in Zemindaries on the
Godavery Delta works
& on the inefficiency
of the maintenance
establishments on
the works of the Madras
Irrigation & Canal
Company —

Channels of the Cocanada
& Coringa Rivers - Godavery
Dt. - The Dt. Engr. to report in
communication with the
Master Attendant at Cocanada
what amount will be re-
quired annually for
maintaining a sufficient
depth of water in the Channels
Attention to be given to the
improvements of the navigation
the Bay &c. &c.