M R O. 1—77,096—8-6-37.

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MADRAS RECORD OFFICE.

Government of Madras.

P.W.D. Works DEPARTMENT.

G.O. No. 93 94 Press / Mis.

173-195

Dated 13 — 1 — 1897.

Not to be folded or roughly handled

No 86

From

COLONEL J C ANDERSON, R. E,

Chief Engineer for Irrigation

To

THE SECRETARY TO GOVERNMENT,

PUBLIC WORKS DEPARTMENT

SIR,

1 With reference to my Memorandum dated 26th May 1868, and in connection with the remunerative effects of the works in the Godavery Delta, I have the honor to submit a complete statement of the expenditure from the commencement of the Anicut in 1847 up to the end of the official year 1866-67

G O No 1,790, dated 8th June 1868

No I

This statement has been compiled from all the old records which I could discover after careful inquiry both in the Controller's Office, and in the Godavery itself, and as some of these records may shortly disappear or be destroyed, it seems very desirable that the present opportunity of having the abstract of the expenditure printed should not be lost

2 The value of the statement which I have prepared must of course entirely depend on its accuracy, and with a view to enable Government to judge to what extent it is worthy of acceptance, I would beg leave to describe the mode in which it has been compiled.

3 In the Report on important Public Works for 1852, the Acting Civil Engineer of the Godavery Division (Lieutenant Haig) furnishes a list of the important works in the Delta, and the expenditure on each, up to the end of that year. The total amounts to Rupees 14,17,287. Again, in the similar Report for 1853, a classified statement of the expenditure incurred in the division for each year, from 1844 to 1853 inclusive, is furnished. From this it appears that the total expenditure on *Irrigation* works from 1847 to 1853 inclusive, (seven years,) was 23,49,459, including 4,05,286 Rupees expended in 1853 on important works Consequently, deducting from the total outlay on works of Irrigation, the amount expended during the seven years on important works only of the same kind, we have 5,26,886 Rs for the expenditure on minor works and repairs in the same period, or an average annual expenditure of Rupees 75,269

No X, Records of Madras Government

RS
23,49,459
18,22,573
5,26,886

From this has to be deducted the expenditure on non-Delta works, which is not likely to have differed much from the scale of expenditure in later years, which on the average amounts to Rupees 18,711 Consequently, 56,558 will represent the average annual expenditure on minor repairs and petty works in the Godavery Delta from 1847 to 1853.

1857 to 1866

4. For 1854-55 the expenditure on important works has been obtained from the statement furnished in the printed Report for that year, and the expenditure on repairs from a statement prepared by the late District Engineer, Major Stoddard

5. For 1856-57 the expenditure on new works and repairs has been co ɜ piled from the Progress Reports of the District Engineer, the former in detail, the latter in the aggregate. It is supposed that a consider able sum was expended under the head Repairs, which should really have been charged to New Works. For these three years, a deduction from the outlay incurred on non-Delta tanks has to be made from the total expenditure on irrigation repairs

6 For 1857-58 and subsequent years the expenditure for each work, both new and repair, has been abstracted from the Progress Reports of the District Engineer and Range Officers In many instances, however, the classification of the works is very imperfect Thus I find "works in Central Delta," "Irrigation works in certain talooks," Irrigation works in three talooks combined, though in the three different sections of the Delta, so that it is impossible to arrive at an accurate knowledge of the expenditure incurred on the several main channels and branches

7 For future classification the whole Delta has been divided into three sections, which are separated by the arms of the river, and which, though connected with the anicut, have no connection with each other the main channels and their branches in each section of the Delta are then classified, and it is proposed that in future all estimates, expenditure, and registers of area under irrigation, should be referred to one or other of these heads This classification has been arranged in communication wth the Superintending Engineer, Captain Ryves. The past expenditure shown in the accompanying statement (No. 1) has also as far as practicable been distributed in accordance with it.

8. The expenditure on the anicut, head-sluices and locks, groynes, and other works connected with the anicut and head-works, is shown separately Statements for this branch of the expenditure showing the proportion of it incurred on these works are also appended. They have been drawn up by Mr. Sage, Executive Engineer at Dowlaishweram, and have been verified by myself. One-half the expenditure in the District on account of avenues has been charged to the Delta, and the other half to roads. In future the expenditure on the Delta channels under this head should be shown separately.

Nos 2, 3, and 4

9 The considerable outlay incurred on river improvements comprise defences, such as groynes, and the construction or repair of the embankments in the Delta, as well as the embankment which extends from Polaveram to the anicut, on the south bank of the river, a distance of twenty miles It has to be observed, that if this expenditure is charged against the Delta system, any improvement of revenue which is gained from the protection from floods thus secured to the unirrigated lands should also be credited to it

10 Various articles of machinery and boats have been constructed or purchased for the Delta works, and have been paid for from the allotment of funds to the District But in addition to such items as appear in the progress reports of the District Engineer or Range Officer, a considerable amount has been expended on plant from the general allotments to the Presidency, and appears in the District Engineer's books only in the form of a valuation statement. I attach a statement of the principal articles, such as steamers iron punts, dredges, &c. These articles are exclusive of the machinery in the Dowlaishweram workshop, which is a self-supporting institution, or of any quarry or other plant which was paid for on account of and included in the bills for the anicut.

No V

11. In compiling the information above described, I have been materially assisted by Lieutenant Coaker, R E.

12. Charges for Conservancy and Navigation establishments were, so far as I can learn, defrayed from the District allotment up to the end of the year 1862. Subsequently bills for such charges were submitted to the Controller for audit and debited to "Establishment"

13 The total expenditure in the Godavery District and the charges for the regular Public Works Department are shown in the accompanying statement

No VI

From this the proportional charge due to the Delta works has been ascertained.

14 Similar statements to those above described are under preparation for the Kistna and Pennair Deltas.

15 I would beg to be informed what the Government of India desire in the form of a Revenue Account It is useless attempting to obtain the area and assessment of the irrigated lands in the Delta, prior to the construction of the anicut. There is no record of them in existence. But I conclude that the gross land revenue for each of the talooks, partly or wholly comprised within the Delta limits, could be arrived at for a number of years prior and subsequent to the introduction of the improved supply of water; and the revenue of each year of the latter period if compared with the average of the former, would give a fair knowledge of the effects of the Delta works It might appear a simple matter to obtain this information, but the question is complicated by the boundaries of the talooks having been changed several years ago, so that it would be necessary to cut out a different set of villages, where the talooks in both cases may be partly within and partly without Delta limits

16. As a new assessment, based on the Revenue Survey of the Districts, has recently been introduced, there ought to be no difficulty in preparing a revenue return for the current and future years in any form which the Government of India may require, but it appears to me very desirable that the question of what the remunerative results of the Godavery works have been up to the present time should be set at rest for good, and this may best be accomplished by completing a return of the land revenue derived from the Delta, in the manner above suggested, by comparing it with the expenditure up to end of 1866-67 or 1867-68, and then, after striking a balance, by starting fair with a new account

I have the honor to be,
Sir,
Your most obedient servant,

A. Anderson Colonel, R. E,
Chief Engineer for Irrigation.

29th October 1868

Public W.

No. 93

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the 13th Jany 1869

Read the following

From The Chief Engineer for Irrigation (Here enter No 86 dated 29th Octr 68

Ordered that these papers be forwarded to the Government of India.

N. E. M. ?

The Ch Engr for Irrigation
" Supdg Engr 1st Divn
Rev Deptt
Controller

Despd 21/1/69

W. G. H.

A. J.

No. 94.

To

The Secretary to the Government of India

Sir,

Being engaged in Collecting data for determining to what works of Irrigation in this Presidency the system of,

---

[illegible] Chief Engineer for Irrigation

To the Secretary to Govt P.W.D.

Dated 29th October/68
Recd 26th November/68

No. 86

Encl. 5

Submits expenditure statements of the expenditure on the Godavery Delta up to 1866-67

Nos. 93 & 94, 13th Jany 1869

4 Dec 1868 R. 11

maintaining special
Revenue Accounts should
be made applicable, the
Chief Engineer for Irriga-
tion has compiled a State-
ment, showing, in as
complete a manner as
possible, the expenditure
on the works in the Godavery
Delta from the year 1847,
when the construction of the
Anicut was commenced,
up to the close of 1866/7,
and in the accompanying
letter, he describes the various
sources from which the
information recorded in
that Statement has been

obtained, & the
adopted in collecting it.

In forwarding these
papers, I am to invite
attention to Para 15 of Col.
Anderson's letter, and to
request the instructions of
the Govt. of India regard-
ing the particulars which
the Revenue Account is
intended to embrace.—

14

Recd 14/1/69 with
Copy of Ltr No 93 of 1868—

Govt. of [illegible] ...s.

PUBLIC WORKS.

To The Chief Engineer for Irrigation

&c, &c, &c.

Dated

Recd 2nd 6

G. O. 13 Jany 9 No. 93894-A

Nos. 193-194 & 195

Godavery Delta Passing orders on the ... from the Chief Engr. for Irrigation ... letter, with remarks, a Statement showing the Expenditure on ... works on the Godavery delta from ... 38 to 1847 & the close of 1866-67.

1866-67, forwarded herewith ... with certain observations

Godavery Delta Statement &, submitted ... Engr. for Irrn., showing the ... on the works in the Godavery ... from the year 1847 to the close of ...

... 1868 No. 115