

(1) Number of pages 1

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

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12

*Proceedings of the Madras Government, Public Works Department,
23rd June 1874.*

No. 494. Read the following letter from Colonel C. V. WILKIESON, R.E., District Engineer, Coimbatore, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, Public Works Department, dated Coimbatore, 1st May 1874, No. 15 :—

* In the Government Order of the 7th February 1874, No. 299, the District Engineer's power of sanction, in the up-keep of irrigation works, is restricted, or rather the Government in this order

1 Statement.

1 Copy of Caroor Range Officer's letter.

confirm the limit prescribed in Clause II., paragraph 9 of Chapter IV. of the Code. I have the honour, therefore, to report that I have been obliged to sanction the three estimates in list accompanying, though I appear to have broken the above rules in doing so. The works were emergent, and I could not delay in giving orders to proceed with the work, but now report the circumstance to you.

2. *Repairing the Coorechy tank.*—A sum of Rupees 1,700 was expended on this tank in accordance with G. O., 28th February 1872, No. 535, ordering all tanks above the line of railway to be made perfectly secure.

3. This ought hardly to be brought into an average of up-keep expenditure for four years prior. The work is very necessary. I have accordingly ordered it to be carried out.

4. *Nunjacalacoorchy Anicut* is one of those irrigation works which always require repairs, and it is a question if it would not pay Government to abandon them and not take the wet cess on them. The work was endangered, and, as floods may be shortly expected, I have ordered the work to be carried out; I would ask, in a case like this, how should the District Engineer act. No time for reference, and the only way of saving the work is to sanction it.

5. *Dalvoypulnam Anicut.*—This is one of the anicuts inspected, I believe, by the Chief Engineer for Irrigation, and the large amount spent in the last few years, though it has been treated as repairs, was really renewal, having been much damaged in the great flood of 1869. The present estimate is chiefly for clearing out of the channel, which appears to be greatly silted up, as fully explained to this office in a letter from the Range Officer.

6. Under these circumstances, that the whole amount "was really only one estimate for renewal," I have sanctioned the estimate under report.

*Proceedings of the Madras Government, Public Works Department,
23rd June 1874.*

List of Estimates for Repairs Agricultural which have been approved by the Collector and sanctioned by the District Engineer in excess of the average revenue of the preceding five years, or in excess of 20 per cent. of the annual income.

Name of work.	Amount of Estimate.		Total.	Average Revenue of the last 5 years.	Difference or excess of expenditure assigned.	Remarks.
	RS.	RS.	RS.	RS.	RS.	
In 1870-71	...	...				
" 1871-72	...	...				
" 1872-73	...	1,700				
" 1873-74	...	...				
Repairing Coorchy Tank	160	1,700	1,860	1,039	821	The place where the revetment has fallen is in the deepest part of the tank and is exposed to the full force of the wind and waves. Portions of the stonework of the heavy wall and a run have been displaced and require rebuilding. If not repaired before the freshets come down the river will probably end in a much larger estimate being required to repair the damages caused by the floods. The Anicut under the channel is very small, but the anicut is just as costly to maintain as those on the same river with eight to ten times the revenue of the Nunjacalacoorchy channel derived from them.
In 1870-71	...	449				
" 1871-72	...	613				
" 1872-73	...	524				
" 1873-74	...	511				
Repairing Nunjacalacoorchy Anicut	102	2,097	2,199	1,562	637	
In 1870-71	...	2,236				
" 1871-72	...	2,222				
" 1872-73	...	833				
" 1873-74	...	...				
Repairing the Dalvoyputnam Anicut	540	5,291	5,831	4,918	913	Vide Caroor Range Officer's letter No. 295, dated 28th March 1874, copy attached.

COIMBATORE,
1st May 1874.

(Signed) C. V. WILKINSON, Colonel, R.E.,
District Engineer, Coimbatore.

From Mr. J. NICHOLSON, Range Officer, to Colonel C. V. WILKINSON, R.E., District Engineer, Coimbatore, dated Camp Nunjiampolliem, 28th March 1874, No. 295.

In forwarding two estimates for repairing the Dalvoyputnam Anicut, the first, prepared by the Overseer, amounting to Rs. 1,100, the second estimate revised from that sent by the Overseer and the amount reduced to Rupees 540, I beg to state that the estimate has been prepared at the request of the Sub-Collector, and although the outlay during the past five years is in excess of the average revenue of one year, I think this work should be treated as an exceptional one and the amount of estimate sanctioned.

2. The anicut is very oblique, and therefore expensive to maintain. It was entirely swept away by the great flood of November 1869. Again, the channel is either very much silted up or

*Proceedings of the Madras Government, Public Works Department,
23rd June 1874.*

originally badly laid out, for, from a line of levels taken last month, I find that, with the water flowing level with crest of anicut, and a depth of 3 feet at head of channel with the bed perfectly level, the depth of water 1 mile below will be only 1 foot 8 inches. I have sent the sheet of levels to the Sub-Collector with a request that the Revenue Taluq Officers may see that the channel is properly cleared next month by the villagers, and I propose during that time examining the bed to see if effective clearing is the remedy, or if the original bed of channel requires deepening.

3. The ryots complain bitterly of the scanty supply of water received, and want a brick-wall built in front of anicut, if the alignment of the channel is bad a remedy may be found in raising the crest of anicut by placing a concrete wall on top.

No. 495.

Note by the Chief Engineer for Irrigation.

In this letter the District Engineer, Coimbatore, reports that he has sanctioned three estimates for repairing the Coorchy tank and the Nunjacalacoorchy and Dalvoyputnam Anicuts, on the Ambravatty, which are in excess of the limit imposed in paragraph 9, Chapter IV. of the Public Works Code.

2. As it would appear that the work provided for was urgently required, the action of the District Engineer in the matter may be approved, but it is necessary to point out that the requirements of the Code should have been met by the preparation of the estimates several months ago.

3. One reason why the outlay on repairs to the Ambravatty Anicuts has been heavy, is that material improvements have been carried out under that head, and in future these should be classed as extensions and improvements, and the estimates for them should be submitted for the sanction of Government. In some cases the cost would properly have formed a capital charge, and the incidence of expenditure of this kind will be determined when the estimates are sanctioned.

4. It is possible that some of the anicuts on this river may hereafter be superseded by bringing the small amount of irrigation, under certain of them, into connection with other anicuts, which are favourably circumstanced; but, in the meantime, these works, which are on the whole by no means very expensive to maintain, must be kept efficient. The statement printed in Proceedings, Madras Government, No. 106, 15th January 1874, shows that the average revenue of the Ambravatty irrigation for the five years up to 1871-72 was Rupees 1,46,463, and the average outlay on repairs Rupees 7,512. Much may certainly be done to render the irrigation more efficient, and the cost of the maintenance of the works small, and well considered proposals for improvements will doubtless be sanctioned.

5. The Ambravatty irrigation will form one group for professional purposes, as soon as such grouping can be carried out.

6. The fall of a part of the revetment of the Coorchy tank would seem to be due to faulty construction, if it formed part of the work executed in 1872-73, and the section given thereto, together with the provision of a backing on which the stability and efficiency of revetments much depend, should receive the District Engineer's attention.

OOTACAMUND,
12th May 1874.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation

*Proceedings of the Madras Government, Public Works Department,
23rd June 1874.*

No. 496.

ORDER THEREON, 23rd June 1874, No. 1,638

IRRIGATION, No. 41.

The sanction by the District Engineer of the following Agricultural Repair Estimates, the amounts of which are, under paragraph 9, Chapter IV. of the Public Works Code, in excess of the limits of local sanction, is confirmed; but the attention of that officer will be called to the remarks of the Chief Engineer for Irrigation, both as to the way in which the requirements of the Code should be met and as to the treatment of the irrigation works noticed.

	Rs.
Repairing Coorechy Tank	160
Nunjacalacoorechy Anicut	102
Dalvoyputnam do.	640

2. The system of anicuts and channels in connection with the Ambravutty river is susceptible of much improvement, and His Excellency the Governor in Council hopes to have before him as early as practicable proposals for the attainment of this object.

(True Extract.)

Lieut.-Colonel, R.E.,
Joint Secretary to Government.

To the Chief Engineer for Irrigation.
„ District Engineer, Coimbatore.
„ Officiating Controller of Public Works Accounts.

Exd. S. T. Austin,
Spore Copies

*In a letter from the
District Engineer
Coimbatore to the
Chief Engineer for
Irrigation D.M.
Madras. 14th June
1st May 1874*

*Pls. 23 June/74
L.H. 11-4/75*

*MW 3196/74
3/74*

*Copy of Caroor Range
officers letter forward-
ing Estimates
which have exceeded
the Average revenue
of five years to be
treated as exceptional
alms and the
annual sanctioned*

List of Estimates for repairs Agricultural which have been approved by the Collector and sanctioned by the District Engineer in excess of the Average Revenue of the preceding 5 years in excess of 20 per cent of the Annual income.

Name of Work.	Estimated of estimate	Expenditure in the last 5 years.	Total	Average Revenue of the last 5 years.	Difference in excess of 20 per cent of preceding 5 years.	Remarks
In 1870-71 " 1871-72 " 1872-73 " 1873-74 Repairing Coorchi Tank	- - - -	- - 1700 -	1860	1039	821	The place where the sluiceway has fallen is in the deepest part of the Tank and is exposed to the full force of the wind and waves.
In 1870-71 " 1871-72 " 1872-73 " 1873-74 Repairing Kunjacalacoorchy Anicut	- - - -	449 613 524 511	2199	1562	637	Portions of the stone work of the body wall & apron have been displaced and require rebuilding. If not repaired before the freshes come down the river will probably end in a much larger estimate being required to repair the damages caused by the floods. The dyke under the Channel is very small but the Anicut is just as costly to maintain as those on the same river with 8 to 10 times the Revenue of the Kunjacalacoorchy Channel derived from them.
In 1870-71 " 1871-72 " 1872-73 " 1873-74 Repairing the Dalnappuram Anicut	- - - -	2236 2222 833 -	5831	4918	913	Hide Caroor Range Officer's letter No 295 dated 28 th March 1874. Copy attached.

District Engg's Office
Coimbatore 1st May 1874

Coll. R. E.
District Engg Coimbatore

[illegible]

Amients has been heavy is that material improvements have been carried out under that head, and in future these should be classed as extensions and improvements, and the estimates for them should be submitted for the sanction of Government. In some cases the cost would properly have formed a capital charge, and the incidence of expenditure of this kind will be determined when the estimates are sanctioned.

4. It is possible that some of the Amients on this river may hereafter be superseded by bringing the small amount of irrigation under certain of them into connection with other Amients which are favourably circumstanced, but in the mean time these works,

1300
which are on the whole by no means very expensive to maintain, must be kept efficient. The Statement printed in Proceedings Madras Government No. 106, 15th January 1874, shows that the average Revenue of the Ambraoutly irrigation for the 5 years up to 1871/72 was Rupees 44,68, and the average outlay on repairs Rupees 7512. Much may certainly be done to render the irrigation more efficient, and the cost of the maintenance of the works small, and well considered proposals for improvements will doubtless be sanctioned.

5. The Ambraoutly irrigation will form one group for professional purposes, as soon as such grouping can be carried out.

6 The fall of a part of the revet-
ment of the Coorahy tank would
seem to be due to faulty construc-
tion, if it formed part of the work
executed in 1872-73, and the section
given thereto, together with the
provision of a backing on which
the stability and efficiency of
retainers much depend, should
receive the District Engineer's at-
tention.

Colonial Engineer,
12th May 1874

Volundulloo South of P.E.
Chief Engineer for Irrigation

The Secretary to Government
P.W.D.

P. W. D. 172

Proceedings of the Madras Government,

Under date the 187 .

Read the following :—

From the St. C. Engrs. Coimbatore
thru the Chief Engineer } (P.O. No. 10. 27/1 May 1874)
for Irrigation }

The sanction by the
St. Engineer of the following
Agricultural repair estimates
the amounts of which are
under para 9 Chapter IV
of the Public Works Code,
in excess of the limits of
local sanction, is empowered,
but the attention of that
Officer will be called to the
remarks of the Chief Engi-
neer for Irrigation both as
to the way in which the re-
- gulations

M. 21/5

Sub: Works 1874 Dept.
No. 3196

The Chief Engrs.
for Irrigation

Dated 12th May/74.
Received 29th May/74.
Encl. 3.

Note on the
explanations of the
Assistant Engrs. in
charge of the
sanctioning work
in the Irrigation
Branch under the
above No. 3196.

Order No. 10. 27/1 May 1874

No 495

I've read a Para &
the effect - that the Govt have
done & ~~lost~~ ~~much~~ ~~of~~
~~an important system~~ have
before them proposals
for the improvement &
extension of the im-
portant line of com-
munication in the Ambra-
vatti valley.

Repairing Coorchi Taut B: 160
 " Kurinjale Coorchi } 102
 " Kurinjale Coorchi }
 " Kalarappatturam } 540
 " do }

W4 14/5/21

[Signature]

The system of ancient
and channels
for connection with the Am-
bravatty river is susceptible
of much improvement, and
His Excellency the Governor
in Council hopes to have
before him as early as prac-
ticable proposals for the
attainment of this object.

Chadwick

494-496

To the Chief Eng^r for Sec^y of War
" D. E. Caimentaro
" Controller
I. Capin dep^d to all 4/7/74.

3196 ✓

Figure 1

3



Irrigation Works on the
Ambravathy

in firming the sanction
accorded by the H^{on} the Comptroller
Estimates for certain repairs
to Agricultural Works on the
Imbravetty and calling the
attention of that Officer to the
remarks of the Chief Secy. Secy.
both as to the way in which the
sums were expended and as to the
necessity of the repairs - and
regarding the proposals
for improving the system of
channels in connection with the
Imbravetty.