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(1) Number of pages 4

(2) Date of repair _____

(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

REVENUE DEPARTMENT

G.O. No.	1712	Press.
B.P. No.		Mis.
Dated	23-3-1877	197.

Not to be folded or roughly handled

Read the following papers:—

No. 371. Proceedings of the Madras Government in the Revenue Department,
dated 16th February 1874.

ABSTRACT.—*Raghanatha Caveri*.—The scheme for the re-
commencement of the scheme for the re-
work, at the cost of the Ramnad Es-
tablishment, be only sufficient to ad-
Mr. Arbuthnott; and referring the paper
on the whole project.

No.
No. 371-A. NOTE BY THE CHIEF
Raghanatha

THE restoration of the *Raghanatha*
the papers recorded in Proceedings, Madras
of the 16th February 1877, and from the
Revenue Department, of the 17th Novem-
ber 1875, and one from which great benefit
commanded may be anticipated.

2. The examination of the project
determine the best way of applying the
irrigated and of avoiding the errors which
irrigation work would occupy a considerable
the undersigned cannot well divert from
The plans and levels, moreover, have no
opinion on the details of the scheme can be obtained
the *Raghanatha Caveri* was probably fairly efficient
much of its present inefficiency is due to long
absence of proper regulation at the heads of the
led to their carrying off much more water than
vation under them; 3rdly, that the circumstances
appear to have been very carefully inquired into
supposing that the contemplated improvement
the advantages which are anticipated, and that
Rupees 3,20,000 estimated to be necessary.
includes only 5 per cent. for establishment, the
will probably be some 50,000 or 60,000 Rupees.

3. There are some few points which a

Although perhaps a greater part of the
to neglect and the absence of regulation of

IRRIGATION.

s.
efficiency is, judging from
venue Department, No. 714,
dings, Madras Government,
1875, a work of great import-
in the Ramnad Zemindary

as would be requisite to
available to the area to be
the deterioration of this old
under existing circumstances
requiring early attention.
him, and without these no
it may be noticed, however, that
at some former time; 2ndly, that
neglect, coupled with the
the upper channels, which has
proper or needful for the culti-
the channels and the irrigation
that there is good reason for
sure, at least to a great extent,
the very considerable outlay of
noticed that, as this estimate
the work including supervision

special attention.

of the main channel is due
it is probable that original

*Proceedings of the Madras Government, Public Works Department,
15th March 1877. No. 882.*

defects of construction or arrangement must have had something to do with this result and it should, it is thought, be specially considered:—

(a.) Whether the fall of the channel which is in parts very great with a consequently high velocity of water, is of the nature of the soil. If this velocity be in excess of what the soil will bear, erosion and silting and therefore either deterioration or expensive maintenance is inevitable. While then high velocities may be proper and allowable, they must by drops or regulating weirs be reduced wherever they are not to withstand them.

(b.) The channel required for land drainage, and for the discharge of surplus works will have to be provided, and should be designed with

(1.) The maximum

(2.) The maximum reference to the height of surplus work for the disposal

*Say equal to 1/4th to 3/4th of total

which should be placed as will allow or, say, anything exceptional cases. These being easily worked. It should be of preventing the deposit of brought down by them should quantity exceeds their capacity

(3.) The main channel diminished in size gradually becomes less. The latter by adapting the section at suitable water-levels and by means of disposing to surplus successive miles or sections and

4. The earthworks of the employment of famine relief labour part of the work of any real and of branch channels, for disposal of soil should be carried out simultaneously to the same end, otherwise much money will be wasted.

5. The District Engineer in charge with a copy of those matters with which Mr. Arbuthnot

FORT ST. GEORGE,
6th March 1877.

drainage.

water may be allowed to rise with channel admissible, &c. Every liable to bring silt into the channel should be provided with undersluice vents of considerable capacity,* the sills of the drainage below the channel below the bed of the channel in fitted with shutters capable of at such sluices are for the purpose drainages are in fresh the water through the sluice vents until its level over the weirs.

in its full section throughout or be in station water, to be carried ordinarily, the better arrangement, because only of the supply to be conveyed can but with this arrangement proper between the quantities carried in efficiency.

subsidiary channels are suitable for the fear from the papers that to make this value, the regulating works for the heads of drainage, and for adapting the fall to the temporary arrangements should be made work will have to be done over again and

should furnish the Special Assistant Engineer of the Irrigation Department which refer to to deal.

JOHN MULLINS, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

*Proceedings of the Madras Government, Public Works Department,
15th March 1877. No. 882.*

No. 372.

ORDER THEREON, 15th March 1877, No. 882.

IRRIGATION, No. 30.

COMMUNICATED to the Revenue Department, with reference to the Order in that Department of the 16th February 1877, No. 714.

(T)

Lieut.-Colonel, R.E.,
Secretary to Government, P.W.D.

To the Revenue Department.

„ District Engineer, Madura.
„ Chief Engineer for Irrigation.

Exd. E. O. Shunker.
Spare Copies.

Rev. 1877 Sept
7th 1877

Subj. of 1877 Madras

PUBLIC WORKS.

THE REVENUE DEPARTMENT.

March 1877

March

1877 March 1877, No. 1832.

MARCH

Nos. 371-372

No. 1712

Comm. to the Rev. Bd
- continuation of 4.0
of the 76th 26/7/77. No. 71462
21/2/77 L.H.F.

23 March/77.

Agbanatha Caveri, Madras District.
by the Chief Engineer for Irrigation on
restoration of the —, communicated to
Revenue Department.