

(1) Number of pages 14
(2) Date of repair _____
(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	527	Press
B.P. No.		Mis.
Dated	5-2-1877	197

Not to be folded or roughly handled

No. 126. Read the following Memorandum from the Chief Engineer for Irrigation, to the Hon. D. F. CARMICHAEL, Secretary to Government, Revenue Department, dated Fort St. George 10th January 1877, No. 25-W:—

With reference to Government Order, in the Revenue Department, No. 2,220, dated 30th December 1876, the undersigned has the honor to report as follows:—
Bookacherla Project.—The Bookacherla Project has been repeatedly brought forward by district officers, but never

in a completely satisfactory form. It has been noticed in the orders of Government quoted in the margin.
The project consists of an anicut across the Pennair near the village of Tiremanny, in the Mysore country, and a large canal from the right flank of the anicut leading into a natural water-course. Across this another anicut is to be thrown some miles down, and an artificial channel, $2\frac{3}{4}$ miles long, takes the water into the Bookacherla tank. This tank is to be much enlarged, and is calculated to hold about 87 million cubic yards of water. A supply of water will also be thrown into the Anantapur and Singanamulla tanks.

2. The cost of the works is estimated by the Superintending Engineer at Rs. 15,95,000; but to this must be added about four lakhs for the general establishment debitable at 20 per cent. on works. The total cost may, therefore, be set down at 20 lakhs of Rupees.

3. The estimated *ultimate* area of irrigation due to the water-supply is reported to be acres 10,600 under the Bookacherla tank, and acres 2,382 under other tanks, whose supply will be improved, or a total of acres 12,982. In view of the experience gained in the case of the works of the Madras Irrigation Canal Company, the rate of assessment can hardly be taken at more than Rs. 4 per acre, and consequently the *ultimate* revenue will not exceed Rs. 51,928. This represents 2.5 per cent. on the outlay, and deducting 1 per cent. for annual outlay on maintenance and repairs, the net return on outlay would only be 1.5 per cent.

Charges for interest during construction and the accumulation of interest until the expansion of irrigation reached its maximum would give the case a still more unfavorable aspect.

4. It may be mentioned in addition that the data on which the estimate of water-supply from the Pennair is based are most imperfect. They consist of one season's observations of discharge, and there is no information whatever as to average supply or as to minimum supply, *i.e.*, that during seasons of scanty rain-fall.

The sympathy between the local rain fall and the flow in this river at the site of the anicut is probably so intimate that failure in one direction would infer failure in the other.

5. In G.O., No. 3,638, dated 20th December 1864, doubts are expressed as to the advantages of this project, and these are endorsed by the Chief Engineer for Irrigation in his letter, recorded in the Proceedings of the Madras Government of the 28th July 1868, Nos. 627-628, in the following words:—"As regards the 3rd

*Proceedings of the Madras Government, Revenue Department,
5th February 1877.*

project from the Pennair, which comprises the excavation of a channel about 18 miles in length to lead the flood-waters of that river into the valley occupied by the Bookacherla, Annapur, and Shurganmulla tanks, I have to report that my examination of the ground merely serves to confirm the misgivings of its soundness which Government expressed in their Order, No. 3,638, dated 20th December 1864. There is no hope of a good case being made out in its favor. The water-supply cannot be counted on with any certainty; the ground is undulating and stony, and in some places rocky, while the cost of the works would not be much, if at all, under twenty lakhs of Rupees."

It is impossible, therefore, to recommend that this scheme should be undertaken with a view to the ultimate debit of the outlay to the Irrigation head of service.

Hindupur and Roddam Project.—The papers are stated to be with the Range Officer; the project will be reported on as soon as they have been received.

Raidroog Project.—The papers do not appear to have been received in this Office. Reference has been made to the District Engineer on the subject.

(Signed) A. DE C. SCOTT, Major, R.E.,
*Deputy Chief Engineer for Irrigation,
For Chief Engineer for Irrigation.*

No. 127.

ORDER THEREON, 5th February 1877, No. 527.

Irrigation No. 1a.

COMMUNICATED to the Revenue Board
with reference to Mr. Thornhill's demi-
official of the 21st December 1876.

(True Extract.)

(Signed) J. H. GARSTIN,
Additional Secretary to Government.

To the Board of Revenue.
„ the Public Works Department.
„ the Chief Engineer for Irrigation.
„ the Financial Department.

Exd. F. R. Bantleman.

11/1/1871

My dear Sir,
I have the honor to acknowledge the receipt of your letter of the 21st inst.

and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,
Yours faithfully,

Wm Crocker

Secretary to the Board of Revenue

11/1/1871

Wm Crocker

11/1/1871

11/1/1871

Robert of 11871

REVENUE.

THE BOARD OF REVENUE.

&c, &c, &c.

Recd.

Encl.

Q.O. 11871

FEBRUARY.
Nos. 126-127.

Bookkeeper and other Irrigation Projects.—(Communicating to the Board of Revenue, with reference to Mr. Thornhill's dem-official of the 21st December 1876, report from Deputy Chief Engineer for Irrigation relating to the —.

What Minute of 140
La M... - unless some
much work is from the
Cabin of the Poling
Relief Corps must be
lately wanted - under
his Channel & then with
something tangible to show
by the supply of Poling
with water & the security
of the cultivation with
Duroy & Cambon truly
Shumbili

The problem of the Booka
 chula project is not
 a matter upon which
 looking into the Punjab
 India H. Head Chamber
 again. I don't want
 there is nothing in Col.
 Mullins' Memorandum
 Cancellation of the
 project as a Relief
 Work. There are 62
 tanks of construction
 to be done: out of a

Office of the
 Chief Engineer for Irrigation
 Fort St. George
 10th January 1977

No. 25 W.

Memo.

With reference to G.O. in the Revenue
 Department No. 2220 dated 30th December 1976,
 the undersigned has the honor to report
 as follows -

Bookacherla Project.

The Bookacherla Project has been
 repeatedly brought forward by District
 officers but never in a completely satis-
 factory form. It has been noticed in
 the orders of Govt quoted in the margin.

The Project consists of an ancient
 across the Pennair near the village of
 Tirumangudi in the Mysore country, and a
 large canal from the right flank of
 the ancient leading into a natural
 water course. across this ^{another} ancient is to be
 thrown some miles down and an
 artificial channel $2\frac{3}{4}$ miles long takes
 the water into the Bookacherla tank.
 This tank is to be much enlarged and
 is

P.M. 3638 - 20 Dec '65
 " 2541 - 31 Aug '66
 " 3846 - 31 Jan '66
 " 2606 - 20 Aug '66
 " 3120 - 1 Oct '66
 " 2398 - 28 July '68

is calculated to hold about 87 million cubic yards of water. A supply of water will also be thrown into the Anantapur and Singanamallu Tanks.

2. The cost of the works is estimated by the Superintending Engineer at Rs 15,95,000, but to this must be added about four lakhs for the general Establishment debitable at 25 per cent on works. The total cost may therefore be set down at 20 lakhs of Rupees.

3. The estimated ultimate area of irrigation due to the water supply is reported to be acres 10,600 under the Borkacherla Tank, and acres 2382 under other tanks whose supply will be unprovided or a total of acres 12,982. In view of the experience gained in the case of the works of the Madras Irrigation Canal Company, the rate of assessment can hardly be taken

at more than Rs 4 per acre and consequently the ultimate revenue will not exceed Rs 51928. This represents 2.5 per cent on the outlay and deducting 1 per cent for annual outlay on maintenance & repairs, the net return on outlay works only be 1.5 per cent.

Charges for interest during construction and the accumulation of interest until the expansion of irrigation reached its maximum would give the case a still more unfavorable aspect.

4. It may be mentioned in addition that the data on which the estimate of water supply from the Pennair is based are most imperfect. They consist of one seasons observations of discharge and there is no information whatever as to average supply or as to minimum supply is that during seasons of scanty rainfall.

The sympathy between the local rainfall and the flow in this river at the side of the anicut is probably so intimate that failure in one direction would infer failure in the other.

5. In G.O. No. 3638 dated 20 December 1864 doubts are expressed as to the advantages of this Project, and these are endorsed by the Chief Engineer for Irrigation in his letter recorded in the P. M. O. of the 28 July 1868 No. 627-628 in the following words: "as regards the 3rd project from the Pennai", which comprises the excavation of a channel about 18 miles in length to lead the flood-waters of that river into the valley occupied by the Boorkacherla, Anantapur, & Shurgammulla Tanks, I have to report that my examination of the ground merely serves to confirm the misgivings of its soundness which Government expressed in their order, No. 3638 dated 20 December 1864. There is no hope of a good case being made out in its favor; the water supply cannot be counted on with any certainty, the ground is undulating, & stony, and in some places rocky, while the cost of the works would not be much, if at all, under 20 lakhs of Rupees."

It is impossible therefore to recommend that this scheme should be undertaken with a view to the ultimate debit of the outlay to the Irrigation Head of Service.

Hindapur and Rossam Project.

The papers are stated to be with the Range officer; the project will be reported on, as soon as they have been received.

Raidong Project

The papers do not appear to have been received in this office. Reference has been made to the District Engineer on the subject.

For. St. George
10th January
1877

Ans. Lett.
Major R.R.

Chief Engineer for Irrigation
Chief Engineer for Irrigation

The Secretary to Government
Public Works Dept.
Revenue

Sub.

Dec 1897

F. N 135

From
The Chief Eng. for Govt

To
The Secy. to Govt
Revenue Dept.

not 4/11 to 11/9 then sent 8/24/97 - 10/18/97 - 10/18/97
21. the Chief Eng. for Govt - 10/18/97
5 - the Chief Eng. for Govt - 10/18/97
5 - the Chief Eng. for Govt - 10/18/97

Dated 10 } Jan 4 1897
Desp. 12 }
Rev

25-4

Circ

Tongabudra + the Irrigation
Projects - Memo. reporting on
the subject of -

N. 527

Comd. 5th Regt.
A. 22? with reference to
the 21st Dec. 1896

5706/77

11/11/97