

MADRAS RECORD OFFICE

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	1626	Press Mis.
²⁴⁹⁻⁵⁰ Dated	10-6-	19 1868

Not to be folded or roughly handled

*Proceedings of the Madras Government, Revenue Department,
10th June 1868.*

No. 249. Read the following Proceedings of the Madras Government in the
Public Works Department:—

Approving of the revised estimate amounting to }
Rupees 1,03,234 for improvements to the } (Here enter 6th June 1868, No. 1,778.)
Akeed Canal in the Godavery District.

No. 250. ORDER THEREON, 10th June 1868, No. 1,626.

Irrigation, No. 5.

Communicated to the Revenue Board.

(True Extract.)

(Signed) H. SEWELL,
Acting Under Secretary to Government.

To the Board of Revenue, with Proceedings Public Works Department, No. 1,778.

Exd. F. R. Bantleman.

*Proceedings of the Madras Government, Public Works Department,
6th June 1868.*

Nc. 119. Read the following letter from the Superintending Engineer, 1st Division, to the Chief Engineer for Irrigation and Joint Secretary to Government, Public Works Department, dated Dowlaishweram, 17th April 1868, No. 5:—

2 Sheets of Sections.
3 Plans.
1 Abstract Estimate.
1 Do Comparative Statement.
5 Plans dispatched by banghy.

1. I have the honor to submit, for sanction, the accompanying plans and estimates for an alteration of the design of the Akeed project.

* G. O. No. 2,462, dated 4th November 1862.

2. The object of this project (sanctioned by Government* in 1862) is to

connect the Weyairu navigation with the Upputair (tidal river receiving the surplus from the Colair lake). A tidal canal between the Upputair and Masulipatam, viâ Buntumilly, will then be all that is required to complete a direct first class water communication between the last named town and Dowlaishweram.

3. The sanctioned plan carries the canal between embankments from the Weyairu at Chinnakappaveram to the westward of Akeed, and thence straight (nearly due south) to the Upputair, near the village of Yaloorpad. It thus crosses the natural drainage into the tidal creek, which joins the Upputair near the village of Dumpagudem, about a mile and a half below the Kotada calingula, and the flood-water of the Weyairu, minus 50,000 or 60,000 cubic yards which would escape over the Chinnakappaveram calingula, would be carried between embankments for 10 miles from Chinnakappaveram to Yaloorpad. Moreover, the escape calingula (45 feet long) at the end of the canal would be insufficient to discharge the flood water.

4. Accordingly, before I went on leave in 1866, I had sketched out a plan which would not be open to the above objections, and directed Mr. Randall to have the necessary levels taken and survey prepared; but Captain Beckley, when acting as Superintending Engineer, proposed the plan which I now recommend for sanction.

5. By this plan the canal will be taken from the Weyairu at Chinnakappaveram, by the line of the old Rudroykodu, three miles and three-quarters, and then by a new cutting between the villages of Azamur and Akeed to join the old line about three-quarters of a mile west of the latter village. The escape calingula, 100 feet long, to be at Chinnakappaveram, the flood water being conveyed away by a separate tail-race (the original line for the canal) to the tidal creek which runs from the north of Akeed to the Upputair near Dumpagudem; 30,000 to 36,000 cubic yards per hour irrigation water will be taken down the canal as far as the head of the new cut at the $3\frac{3}{4}$ mile; from that point, four-fifths of the quantity will be taken for the Rudroykodu irrigation, and the remainder for the tract between the new canal and the Upputair from Akeed to Yaloorpad. The ordinary depth of water in the canal to be from 5 feet 6 inches to 6 feet; the new cutting from the $3\frac{3}{4}$ to 6th mile to be 36 feet at bottom, with side sloping two to one.

Chinnakappaveram Lock upper sill being + 1 foot.

6. With $4\frac{1}{2}$ feet on Chinnakappaveram lock upper sill which = + 5 feet 6 inches on H. W. datum, the water

surface at Yaloorpad will be about + 4 feet 9 inches. The level of H. W. tings at Yaloorpad is — $4\frac{1}{2}$ inches, and the extreme range of tide 3 feet $7\frac{1}{2}$ inches,

*Proceedings of the Madras Government, Public Works Department,
6th June 1868.*

making the lowest low water — 4 feet. I therefore propose to fix the lower sill of the Yaloorpad tidal lock at — 8 feet, and the upper sill at — 1 foot, the lift wall being 7 feet high.

7. The flood water to be disposed of at Chinnakappaveram will be about 275,000 cubic yards per hour, of which about 55,000 will escape over the Chinnakappaveram Lock calingula, and 220,000 over the new 100 feet escape. There will be a small calingula (15 feet long) at the Yaloorpad end of the canal.

8. The amount of the original estimate is Rupees 80,120, of which Rupees 20,234 have been expended on the originally planned works, the cost of the works required to complete the project on the plan now recommended is, according to the accompanying estimates, Rupees 83,000, making the total cost Rupees 1,03,234, or Rupees 23,114 more than the sanctioned amount. This excess is principally due to the heavy excavation for the escape tail-race and the greater size of the calingula; the estimates now submitted provide for certain omissions in the original estimate, such as embanking Weyairu above Chinnakappaveram, copper to gates of tidal lock, bridge, and shutters to calingula, &c.

MEMORANDUM.

The original project referred to in the foregoing letter, and which was sanctioned in G. O. No. 2,642, dated 4th November 1862, provided for the construction of a lock and calingula at Chinnakappaveram on the Weyairu in the Godavery Delta, a tidal lock or calingula on the Upputair, and an embanked channel 10 miles long between them. The Superintending Engineer now explains that this arrangement is open to objection on account of its necessitating the conveyance of a large body of flood-water for a distance of 10 miles, and further that the calingula allowed in the original design would not be capable of discharging it. He proposes to carry off the flood-water by a more direct route into the Upputair, and thus leave the main canal to carry only so much water as is required for the irrigation of the land under it. The proposal is, in my opinion, a very judicious one, and the designs and estimates having been drawn up in a careful and complete manner, I would recommend that sanction may be granted for the proposed additional outlay, viz., Rupees 23,114, which is made up of the following items:—

	Original. RS.	Proposed. RS.
Chinnakappaveram Lock and Calingula	11,990	11,990
Tidal Lock and Calingula	28,845	31,970
Channel from Chinnakappaveram to tidal lock	39,285	28,763
Embanking Weyairu above Chinnakappaveram		3,223
Flood Calingula at Chinnakappaveram		8,880
Escape Channel from do. to Upputair.		18,403
	80,120	1,03,234
		23,114

FORT ST. GEORGE,
20th May 1868.

(Signed) J. C. ANDERSON, Lieut.-Col., R. E.,
Chief Engineer for Irrigation.

*Proceedings of the Madras Government, Public Works Department,
6th June 1868.*

No. 120. ORDER THEREON, 6th June 1868, No. 1,778.

IRRIGATION, No. 10.

1. His Excellency the Governor in Council approves of the revised estimate amounting to Rupees 1,03,234 submitted by the Superintending Engineer of the 1st Division for improvements to the Akeed Canal in the Godavery district.

2. It is observed that the original estimate of Rupees 80,120 for these works was sanctioned in the Order of the 4th November 1862, No. 2,642, and that provision for them to the extent of Rupees 30,000 is made in the Budget estimate of the current official year.

(True Extract.)

[Signature]

Colonel, R. E.,

Secretary to Government.

To the Superintending Engineer, 1st Division.
" Accountant General.
" Controller of Public Works Accounts.
" Revenue Department.

Exd. S. T. Augustin.

Recd. 1868. O/2/5th
No. of 4th Jan 2013.

Proceedings of the
Court of W. 20/4th

Dated 6th 3 June
Received 8th 1868.
H. 1778.

Applying of the
Revenue Board
amounting to
£103,234 for 1st
provision to
the 1st of June
in the 1st of June
District
1868-10 days
with order

H. 1626.

Committee to the
Revenue Board

10th June 1868

14 Copies of the 1st of June with the 1st of June 1868

14 Copies of the 1st of June with the 1st of June 1868

13

N. 2498250