

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	3138	Press
B.P. No.		Mis.
Dated.	4 - 11	C874
		195

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
4th November 1874.*

No. 68. Read the following endorsement of the Chief Engineer for Irrigation, dated Palamcottah, 7th October 1874, No. 795 :—

From G. S. SAGE, Esq., District Engineer, South Arcot, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Camp at Cuddalore, 30th September 1874, No. 140.

I HAVE the honor to forward copy of a letter received from Officer in charge No. 1 Range, from which it appears a heavy flood came down the Pooniar on 17th instant and carried away the ring-bund we had put up to enable us to rebuild the Pombay channel head sluice, but owing to constant freshes and rain we had to stop the work; the bund was then strengthened to three yards at top and slopes of 2 to 1 and carried up to level of anicut wings; it is this bund which has given way. I inspected the work on the 24th instant and sounded all round, every thing was safe and the arrangements proposed by Range Officer I sanctioned.

2. Regarding the Korayaur embankment, it was in an unfinished state, and the lower portions were topped and two breaches of 142 and 192 yards were made.

3. We have been very unfortunate in having such a wet season; since I have been in district we have hardly had a dry day, and but for the assistance in way of labor given us by Revenue Authorities, we could have done nothing; as it is we have failed, but I trust if the monsoon only holds off a little longer to have all safe.

4. Regarding the Pooniar Anicut, since this last fresh I have come to the conclusion it will be necessary to prolong the anicut wall, etc., across the breach, and put the new sluice in the high ground; I am having surveys and levels taken, and will submit for your opinion as soon as ready.

From Mr. G. E. WIFFEN, Sub-Engineer No. 1 Range, South Arcot, to G. S. SAGE, Esq., District Engineer, South Arcot, dated Camp at Punrooty, 25th September 1874, No. 374.

I HAVE the honor to report that the heavy freshes which came down the Pooniar river on the 17th instant has carried away the temporary ring-bund in front of the breach on north side of anicut, caused by the washing away of the Pombay channel head sluice in May 1874, and a small breach in flood embankment where that work is connected with the Arinnally channel bund; the flood at its highest stood 5.76 above crest of anicut at the bund. Unfortunately I am unable to state the exact height of water going over the anicut, as the Superintendent and Cottens were on the north side when the flood was at its highest, and were unable to get over on account of the temporary bund giving way; the water did not top the bund, but when the flood commenced to rise, which it did with great rapidity, 3 feet in 10 minutes, the bund gradually melted away. I can only consider the reason for the same to the bad material; we had to construct the bund with fine sand; the section of the bund was 9 feet top, breadth with slope of 2 to 1, and well revetted with durbah rollers in front or stream side.

2. The bund was 8.52 above crest of anicut, and as you are aware connected with the flood embankment. I have made all necessary arrangements for protecting the north wing of the anicut, which I intend doing by throwing in a quantity of rough stone around the abutment of the head sluice (the only piece of work left from that work), and also by throwing in a quantity of stone on the north side of breach to protect the flood embankment and keep the water from scouring out the breach any wider. I will see how these precautions act, and, if necessary, take other measures; but I trust it will not be required. I have sounded as far as practicable the breach. I find that there is at present no scour, the bottom being protected by the debris of the old sluice, as only a portion had been taken up previous to the fresh coming down.

3. I have also to report that those portions of the Korayaur embankment, which were in an incomplete state, has been carried away when the flood came down; the two ends and a portion in

Proceedings of the Madras Government, Public Works Department,
4th November 1874.

centre have stood all correct; their length on west side 132, centre 143, and east end 154 yards; the two breaches on west side 142 yards and east 192 yards; these parts were in progress and not sufficiently high; the flood topped them and they went.

4. I have had sections taken, and will submit shortly with revised estimate and an exact estimate of what has been the damage.

5. I have directed the Sub-divisional Officer to go on with the work, completing the two ends and No. 1 breach first; if I can get those done within the 10th of next month I will commence the No. 2 breach, if not will protect both ends and await until the heavy burst of the north-east monsoon is over before doing any more.

SUBMITTED for the information of Government.

Where, as at the Pooniar anicut north bank, the material on the spot is all sand, it is essential that a core of good soil should be formed to prevent dangerous leakage, and this core should be founded out the reconstruction of the bank between the anicut north wing and the head sluice of the Pombay channel, and again from the latter to the high ground, this core should be inserted and then the rest of the bank may be of sand.

2. The Korayaur flood bank failed from its incompleteness, and care must be taken that this does not again happen. It is a work which ought not to take long to throw up. Of course it must be founded in good soil, below the sandy bed of the stream or bye-wash.

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

No. 69.

ORDER THEREON, 4th November 1874, No. 3,133.

IRRIGATION, No. 6.

RECORDED, and the remarks of the
Chief Engineer for Irrigation communi-
cated to the District Engineer, South
Arcot, for information and guidance.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the District Engineer, South Arcot.
.. Chief Engineer for Irrigation.

Exd. S. T. Austin.

Spare Copies

N^o. 1 Range Office, S. Arcot
N^o. 374 Camp Poonooty 25th Sept/74

From,
The Officer in Charge
N^o. 1 Range S. Arcot

The District Engineer,
South Arcot,

Sir
I have the honor to report that
the heavy freshes which came down the
Pooniar River on the 17th Instant has
carried away the Temporary Ring bund
in front of the breach on North side
of Anicut, caused by the washing away
of the Pombay Channel Head Sluice in
May 1874, and a small breach in
Flood embankment where that work
is connected with the Primally Chan-
nel bund, the flood at its highest
stood 5-76 above crest of Anicut at
the bund, unfortunately, I am un-
able to state the exact height of
water going over the Anicut as

the Superintendent and Kottens were on the North side when the flood was at its highest, and were unable to get over on account of the Turpe = dary bund giving way, the water did not top the bund, but when the flood commenced to rise which it did with great rapidity 3 ft. in 10 minutes, the bund gradually melted away. I can only consider the reason for the same to the had Material we had to construct the bund with, fine sand; the section of the bund was 9 ft. top breadth with slope of 2 to 1 and well revetted with Kurbah rollers in front on stream side.

The bund was 8.52 above crest of Aicut and as you are aware connected with the flood Embankment. I have made all necessary arrangements for protecting the North wing of the Aicut, which I intend doing by throwing in a quantity of rough stone around the abutment of the Head Sluice / the only piece of work left from that work / and also by throwing in a quantity of stone on the North side

of breach to protect the Head River bankment and keep the water from scouring out the breach any wider, I will see how these precautions act, and if necessary take other measures, but I trust it will not be required, I have sounded as far as practicable the breach, and find that there is at present no scour, the bottom being protected by the kebris of the old Sluice, as only a portion has been taken up previous to the fresh coming down.

I have also to report that those portions of the Korayar Embankment which were in an incomplete state has been carried away, when the flood came down, the two bunds and a portion in Centre have stood all correct, their length on west side 132. Centre 148 and East end 154 yds. the two breaches on west side 142 yds and East 192 yds, these parts were in progress and not sufficiently high the flood topped them and they went.

I have had sections taken and will submit shortly with
Revised

Revised Estimate and an exact Estimate of what has been the damage. I have directed the Sub Divisional Officer to go on with the work completing the two ends and No. 1 Breach first if I can get those done within the 10th of next Month, I will commence the No. 2 Breach if not will protect both ends and await until the heavy burst of the North East Monsoon is over before doing any more.

I have &c.

Signed / G. C. Mifflin
Sub. Engineer
No. 1 Range

/ True Copy /
V. L. S. G.
Dist. Engineer

1874. 24. 10. 11/14
in 15. 10. 68.

1874. 11. 10. 11/14

D. P. W.
SOUTH ARCOT.

DISTRICT ENGINEER'S OFFICE.

No. 140

Camp *Andalor*
Dated *30th September* 1874

From
The District Engineer,
South Arcot.

To
The Chief Engineer for
Irrigation.

Enclosures 1

1 Copy of letter

Sir,
I have the honor to forward copy of a letter received from Officer in Charge No. 1 Range, from which it appears a heavy flood came down the Pombar on 17th Instant and carried away the wing bund we had put up to enable us to rebuild the Pombar Channel. Had I been here, but owing to constant freshes and rain we had to stop the work, the bund was then strengthened to 3 yds at top and slopes of 2 to 1 and carried up to level of adjacent wings, it is this bund which has given way. I inspected the work on the 24th Instant and sounded all round, every thing was safe and the arrangements proposed by Range Officer

I sanctioned

2. Regarding the Scoryaw
embankment, it was in an unfini-
shed state, and the lower portions
were topped and 2 breaches of 142
and 192 Yds were made.

3. We have been very unfortunate
in having such a wet season, since
I have been in District we have
hardly had a ~~wet~~ ^{dry} day, and but for
the assistance in way of labor given
us by Revenue Authorities we could
have done nothing, as it is we have
failed, but I trust if the monsoon
only holds off a little longer to have
all safe.

3. Regarding the Pinnian Ancient,
since this last fresh I have come
to the conclusion it will be necessary
to prolong the Ancient wall ~~to~~ ^{across}
the breach, and put the New Slice
in ^{the} high ground; I am having surveys
and levels taken and will submit
for your opinion as soon as I

N 795

I have the honor to be
Sir
Your Most Obedt Servt

W. M. P.
District Engineer

Isanctioned

Enclosures-2 of Government

N. No. 1838 of 30/4/74
with Enc.

Submitted for the information

Whereas at the Pomier ancient North Bank, the material on the spot is all sand, it is essential that a core of good soil should be formed to prevent dangerous leakage, and this core should be founded some 5 or 6 feet below the level of the head, or under, sluice sill. In carrying out the reconstruction of the bank between the ancient North wing & the head sluice of the Paumbay channel, and again from the latter to the high ground, this core should be inserted and then the rest of the bank may be of sand

SOUTH AMPOT D. P. W.

From

1838

The District Engineer

South Arcot

To

The Chief Engineer

for information

Dated

23rd

Despatched

5th

Received

23rd

1838

Enclosure

1

Observing that the

alter from the Officer

in charge the (Camp)

reporting damages done

to certain works at the

Pomier sluice by the

floods which came

down the river on the

1st of August 1874

Mr. 6468/74

2. The Korajaur flood.
bank failed from its incom-
pleteness, and care must
be taken that this does
not again happen. It is
a work which ought not
to take long to throw up.
Of course it must be found-
ed in good soil below the
sandy bed of the stream
or byewash.

Palamcottah, Madras. St. John's.
7 October 1876.

Chief Engineer for Irrigation

To The Secretary & Govt

P. W. D.

Public Works Deptt
 Proceedings of the Madras Government
 Read the following
 From The Chief Engrs
 for Irrig (76 E No 795 dated
 7th Oct 1874)

3138

Recorded, and
 the remarks of
 the Chief Engrs
 for Irrigation com-
 municated to the
 District Engineer,
 South Arcot. for
 information and
 guidance.

M. W. M.

Nov. 7/10/74 *C. M. M.*

The D. E. South Arcot ✓
 -- Chief Engrs for Irrig ✓
 S. Copies despatched 11/11/74.

P. W. 1874 Dept.
 No: 6468
 From

The Chief Engrs
 for Irrigation
 Dated 7th Oct 1874.
 Recd 15th --- } 1874.
 E. 2. No: 795.

Offering remarks re-
 lative to the damages
 done to certain works
 at the Poniar Ancient,
 S. Arcot District.
 E. 2. No: 3138. 4-11-74.

Ch 68

Recd 15 Oct 74

6468
Govt. of 1874 Madras.
PUBLIC WORKS.

To
The District
S. Arcot

Dated

Recd.

Encl. 2

G. O. L. No. 3138

No. 68-69

Damages to certain works
at the Poniar Arcot -
South Arcot District.

Letter from the S. Arcot
Endorsement from the
Chief Eng. for drainage
submitting papers with
remarks relative to the
damages done to ^{certain} ~~the~~
works by the late ~~president~~
Records & Com. to the
S. Engineer