

(1) Number of pages _____

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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	301	Press
614,615,		Mis.
Dated	30-1-	18 73

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
30th January 1873.*

No. 614. Read the following Endorsement of the Officiating District Engineer, South Arcot, dated Cuddalore, 14th December 1872, No. 3:—

From the Executive Engineer, No. 1 Range, South Arcot, to the Officiating District Engineer, South Arcot, dated Camp at Vanoor, 11th December 1872, No. 766.

I HAVE the honour to report, for your information, the extent of damage caused to works of Communication and Irrigation in the No. 1 or Cuddalore Range by the unusually heavy rains experienced between the 20th and 28th ultimo. The fall of rain between 7 A.M. and 6 P.M. on the 22nd idem was carefully gauged by me at Cuddalore, and registered $10\frac{1}{2}$ inches.

2. Considering the flooded state of the country generally, the damages hitherto reported (and I think I have now heard all there is to be heard) may be said to be very inconsiderable, and certainly not what I had anticipated.

3. *Communication.*—The road from Cuddalore to Pondicherry has been breached in places and rendered for a time impassable. A large breach in the 116th mile is the most serious. Owing to insufficient water-way through the bridge of 3 arches of 12 feet span the embankment was over-topped, which resulted in the breach; this I think saved the bridge, which is standing safe and uninjured. Two culverts of 12 feet span (one on either side of the bridge) are required in this embankment, and these should, if possible, be built next year.

4. On the Salem Frontier Road, *via* Virdachellum, two large gaps across the road on the 20th mile require to be bridged; these gaps are left open during this year as there are no funds available for the construction of the culverts which are absolutely required here. Estimates for these masonry works were submitted to the District Engineer's office with my No. 721 of 3rd instant.

5. The road from Pondicherry to Tindevanum, *via* Mylum, is very heavy and almost impassable after these rains. In many places there is not more than $1\frac{1}{2}$ or 2 inches of metal on the surface of road, which, with the heavy traffic on it, is soon broken up and destroyed, and the road is now in places like a ploughed field. This road from the 87th to the 101st mile should be re-metalled next year. An estimate is under preparation, and will be submitted immediately.

6. The road from Parangany to Valdavoor is considerably breached in the 2nd, 3rd, and 4th miles. A culvert of 15 feet span on the 2nd mile across an impassable ooday is much wanted. Valdavoor is a Sayer station and the road is a very important one, though only 6 miles in length; the whole length should be gravelled. I had much difficulty in going over this road; the breaches are being closed by mile coolies as well as possible to open out traffic again.

7. *Irrigation Works.*—There are 25 tanks reported as having breached in the taluqs of Cuddalore and Villapuram; some of these tanks were under repair in the current year and incomplete, the breaches occurring in places where the bund had not been as yet touched. Those in the neighbourhood of Vanoor I have just inspected. The most serious is the breach in the Pulichapullum tank; the ryots appear to have done all in their power to close the breach by a ring bund, but without effect; there is now no water in the tank at all; the breach is due entirely to cattle being allowed to cross the bund any where and every where; in places the bund is worn down a yard or so below the top level of the original bank from this

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cause. There are two calingulahs (very small ones) in this tank, the surplus water evidently discharged at a depth of 4 feet or $\frac{1}{2}$ foot above wing walls; the tank may have been saved if the bund had been breached somewhere between the two calingulahs which are about 30 yards apart. Especially as the subsoil here is hard and rocky within 2 feet of the surface, the closing of the breach will cost about 600 Rupees.

8. Another serious breach in the Mount Capper Lake or the Condunghe tank occurred on the night of the 28th ultimo; the closing of the breach was taken in hand on the 30th idem, the Revenue authorities giving every assistance in procuring labor. A sluice has also been carried away in this breach; it is reported that the cause of the breach is due to the bund having become much worn at this point by cattle crossing over it. The tank was quite full at the time it breached, and there is now no water at all in it. It is hoped when the breach is closed that the tank will receive a fair supply from the Trivandipuram Anicut, though its principal source of supply is surface drainage.

9. I shall probably require about Rupees 2,500 more than is allotted* for my range under the head "Repairs, Irrigation."

* Rupees 44,000.

SUBMITTED for the information of Government, in continuation of Endorsement No. 1 of the 11th instant.

2. Estimates for the works alluded to in paragraphs 4 and 5 have been forwarded to the Local Fund Board, and those for the works referred to in paragraphs 3 and 6 will be prepared and forwarded for sanction in due course.

3. Application for additional funds required under "Agricultural Repairs" will be made on receipt of report of the extent of damages caused in the Virdachellum Range.

(Signed) R. E. NORFOR,
Officiating District Engineer.

No. 615.

ORDER THEREON, 30th January 1873, No. 301.

IRRIGATION, No. 50.

COMMUNICATED to the Financial Department and to the Chief Engineer for Irrigation in continuation of G. O., No. 199, dated 21st January 1873.

2. Conductor Wiffen, Sub-Engineer, 1st grade, has been detailed to relieve Mr. Norfor of charge of the range.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

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

Frd. T. O'Connor.

No. 766 No. 1 Range Office, S. Arcot,
Camp Vancor, 11th December 1872
3-

From, The Executive Engineer,
No. 1 Range, South Arcot.
To, The Offg. District Engineer,
South Arcot.

Sir, I have the honor to report for your information the extent of damage caused to works of Communication and Irrigation in the No. 1 or, Cuddalore Range, by the unusually heavy rains experienced between the 20th and 28th Ultimo. The fall of rain between 7 A.M. and 6 P.M. on the 22nd idem was carefully gauged by me at Cuddalore, and registered $10\frac{1}{2}$ inches. Considering the flooded state of the country generally the damages hitherto reported, and I think I have now heard all there is to be heard, may be said to be very inconsiderable, and certainly not

not what I had anticipated.

3 Communication. The road from Cuddalore to Pondicherry has been breached in places and rendered for a time impassable. A large breach in the 116th mile is the most serious. Owing to insufficient waterway through the Bridge of 3

Arches of 12 ft span the embankment was overtopped which resulted in the breach, this I think saved the Bridge, which is standing safe and uninjured. Two culverts of 12 feet span (one on either side of the Bridge) are required in this embankment, and these should if possible be built next year.

4 On the Salim Frontier Road via Vindachellum - two large gaps across the road on the 20th mile require to be bridged, these gaps are left open during this year as there are no funds available for the construction of the culverts which are absolutely required here. Estimates for these masonry works were submitted to the District Engineer's Office with my No 721 of 3rd Instant.

5 The Road from Pondicherry to Tridivanam via Mylur is very heavy and almost impassable after these rains, in many places there is not more than $\frac{1}{2}$ or 2 inches of metal on the surface of road, which with the heavy traffic on it, is soon broken up and destroyed, and the road is now in places like a ploughed field. This road from the 8th to the 10th mile should be re-metalled next year. An estimate is under preparation and will be submitted immediately.

6 The Road from Parangany to Valdavoor is considerably breached in the 2nd, 3rd and 4th miles. A culvert of 15 feet span on the 2nd mile renders an impassable. A day is much wanted. Valdavoor is a Sayer Station and the road is very important one though only 6 miles in length. The whole length should be gravelled. I had much difficulty in going over this road, the breaches are being closed by mile coolies as well.

well as possible to open cut traffic again.

7. Irrigation Works. There are 25 Tanks reported as having breached in the Taluqs of Cuddalore, and Villaputur; some of these Tanks were under repair in the current year and incomplete. The breaches occurring in places where the bund had not been as yet touched. Those in the neighbourhood of Tenkashore just inspected. The most serious is the breach in the Pulichapattinam Tank; the ryots appear to have done all in their power to close the breach by a ring bund, but without effect, there is now no water in the Tank at all. The breach is due entirely to cattle being allowed to cross the bund any where and every where, in places the bund is worn down a yard or so below the top level of the original bank from this cause. There are two Calingulabs (very small ones) in this Tank, the surplus

surplus water evidently discharged at a depth of 4 feet or $\frac{1}{2}$ foot above wing walls. The tank may have been saved if the bund had been breached some where between the two Calingulabs which are about 30 yards apart. Especially as the subsoil here is hard and rocky within 2 feet of the surface the closing of the breach will cost about 600 Rupees.

8. Another serious breach in the Mount Lepper Lake or the Condunghe Tank which occurred on the night of the 28th ultimo, the closing of the breach was taken in hand on the 30th idem, the Revenue Authorities giving every assistance in procuring labor. A sluice has also been carried away in this breach, it is reported that the cause of the breach is due to the bund having become much worn at this point by cattle crossing over it. The tank was quite full at

at the time it breached, and there is now no water at all in it. It is hoped when the breach is closed that the tank will receive a fair supply from the Trivandipuram Aqueduct, though its principal source of supply is surface drainage.

I shall probably require about Rs. 2,500 more than is allotted Rs. 44,000 for my Range under the Head "Repairs Irrigation".

I have the honor to be,
Signed/ R. E. Nisford
Executive Engineer

No 3 District Engineer's Office, Secy,
Cuddalore 14th December 1872.

Submitted for the information of Government, in continuation of endorsement No 1 of the 11th instant.

2 Estimates for the works alluded to in paras 4 and 5 have been forwarded to the Local Fund Board, and those for

for the works referred to in paras 3 and 6 will be prepared and forwarded for sanction in due course.

3 Application for additional funds required under "Agricultural Repairs" will be made on receipt of report of the extent of damages caused in the Vinda. Chellum Range.

Yours
R. E. Nisford

Officiating District Engineer

To

The Secretary to Government
Public Works Department

P. M. 1872 Report.

From, Chas. 6271.

The Capt. Michael Long,
Double Street.

Mr. J. J. Long,
Q. J. M.

State 114,
Dec 17, 1872.

Submitting a copy of
a letter from the Sec. Eng.
Mr. J. J. Long & Sec. Eng.
porting the receipt of the
money paid to words
of Communication and
migration by the Sec.
can have.

With an order

Commenced to the Municipal Separate
and to the Chief Engineer for migration in continuation
of B. O. No. 100, dated
Conducting British and Engineer 1st grade
has been detained to relieve the Mayor of change of
the range.
Signed, D. J. Long,
Secy. 12/13
P. M.

to 20 Dec 1872

C/2 1271
Govt. of 1873 Madras.

PUBLIC WORKS.

To The District Engineer
South Arcot.

Dated

Recd.

Encl.

G. O. 30th Jan'y 1873. No 301.

Nos. 614 & 615

Public Works. Re-

port, submitted by the
Offy of Engrs., South
Arcot, of the damages
incurred to certain
works, com^d to the
Financial Dept.