M.R.O. 1—77,006—8-6-37.

(1) Number of pages 14

(2) Date of repair 9-2-43

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2321	Press / Mis.
Dated 26-9-	18 92.

Not to be folded or roughly handled

75

Proceedings of the Madras Government, Public Works Department, 26th September 1862.

No. 494. Read the following Endorsement of Captain E. HEMERY, R. E., for Deputy Chief Engineer, Northern Circle, dated Chepauk, 24th September 1862, No. 396/Kr 325 :—

Read the following letter from Major J. C. ANDERSON, District Engineer, Kistna, to Lieutenant-Colonel S. O. E. LUDLOW, Deputy Chief Engineer, Northern Circle, dated Bezoaroh, 16th September 1862, No. 65.

SIR,

1. I have the honor to report that the Ellore Canal sustained considerable damage from an unusually heavy flood in the numerous drainages to the northward, on the 3rd and 4th instants. There had been less than the ordinary fall of rain previously, and the sudden rush of the water breached the greater number of the tanks which draw their supply from the drainages and then swept down on the canal with extraordinary violence.

2. A report* of Major Pollard, describing the nature and extent of the breaches, is enclosed. I detained his report until he could ascertain the probable cost of the repair. I have now received an estimate, amounting to Rupees 3,485, which provides for the closing of the whole of the breaches noticed by Major Pollard. But to this sum has to be added the cost† of repairing a breach (40 yards wide) which was formed in the north bank of the canal, about two miles from Bezoarah by an extraordinary flood in the Budemair on the 5th instant.

* No. 129, dated 10th instant.

† Probably 500 Rupees.

3. I have not yet been able to ascertain what the fall of rain that occasioned the damage in question amounted to, as it did not extend to this place, but it is evidently of importance that information regarding it should be obtained, as there is otherwise no means of judging of the probability of similar accidents occurring in future, or to what extent it will be necessary to add to the number of the tunnels or calingulas, which have been constructed for passing the drainage water across the canal.

4. I propose to submit a report on the subject at an early date.

From Major D. G. POLLARD, First Assistant District Engineer, Kistna, to Major J. C. ANDERSON, District Engineer, Kistna, dated Gunaverum, 10th September 1862, No. 129.

SIR,

1. I have the honor to report that the Ellore high level canal between Bezoarah and Perikeed has been very badly breached between the villages of Autkoor and Perikeed, owing to the heavy rain fall among the hills to the westward, and the almost unexceptional breaching of the numerous tanks fed by the hill streams to the north and west of the canal.

2. The occurrence took place on the night of the 3rd and morning of the 4th instant, and the report of the same reached me late on the night of the 4th.

3. I proceeded on the morning of the 5th instant to inspect the state of the canal and find it as follows :—

One breach in south bank at Autkoor tunnel, where the bank appears to have given way under pressure, there having been about eight feet of water, of which 6′ 6″ were against the bank, this breach has been stopped ; eight breaches, four in the north and four in the south bank, aggregating 197 yards in length, at Pettipaud, about one mile further down. These were caused by the drainage water accumulating against and over topping the north bank and sweeping clean across the canal, and are now being temporarily closed with ring banks.

Four breaches at Talprole, Malapilly tunnel, which was entirely submerged, the water rising over the parapet walls besides cutting two breaches in the north and two in the south bank, the tunnel discharged freely, but was inadequate to carry of the sudden rush. The depth of cutting of the canal at this place being upwards of four feet, nothing will be done till more important breaches are repaired.

Proceedings of the Madras Government, Public Works Department, 26th September 1862.

Five breaches at Veeravully tunnel, one very bad which has been, with some difficulty, stopped, and is now being strengthened the others are less material. This is a large tunnel of three vents, each 6 feet diameter, but it was greatly choked with sand and light soil washed in. The immediate cause of the damage here was doubtless the breaching of the large Veeravully tank situated about half a mile above the canal bank.

The worst injuries occurred in the low ground between Nursaipollem and Rammole, where there are 33 breaches, measuring altogether 1,026 yards in length (the bank having in a section of from 16 to 24 yards), and in addition to the above, the banks have been more or less injured by the lateral sweep of the current, as well as by sinking for a length of nearly a mile. Here also the bank, as shown by the water line, was over topped by the accumulation of drainage water, which bursting in on the upper side breached the lower bank almost immediately opposite.

4. The masonry tunnels appear quite uninjured, although the water must have passed clean over them, and the embankment at the ends of the parapet walls was torn away.

5. An estimate for the repair of the damages is under preparation, but the depth of two of the worst breaches cannot yet be ascertained owing to the water and silt. I regret to say also that it will take at least three weeks more, probably four, to get the canal into a fit state to receive a small supply of water. Unfortunately long stretches have been more or less filled up with the earth of the northern bank washed in, and in many cases this cannot be now taken out unless the canal were thrown dry for a fortnight, even then a few showers of rain would make the earth too soft to remove.

6. The ground generally at the site of breaches being very hard and cloddy, very few deep holes have been cut, only one very bad which appears to be three yards in depth and through which water continues to pour; the supply will have to be entirely cut off before this can be closed.

7. Labor is unfortunately very scarce, as yet only 120 tank-diggers have been collected, whom it is very difficult to keep together as there is a demand for their services in almost every village, and I believe it will be requisite to apply under Act I of 1858 for compulsory labor from the neighbouring country.

(True Copy.)

(Signed) J. C. ANDERSON, Major, R. E.,
District Engineer, Kistna District.

---

1 Letter from District Engineer, Kistna, No. 65, dated 16th September 1862, with enclosure.

1. Submitted for the information of Government.
2. The further report promised will be forwarded on its receipt.

(Signed) E. HEMERY, Captain, R. E.,
For Deputy Chief Engineer, Northern Circle.

No. 495. ORDER THEREON, 26th September 1862, No. 2,321.

The Government will await the receipt of the further report promised in paragraph 2 of the foregoing Endorsement.

(Signed) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

No 65

Dist Engrs Office
Bezwada 16th September
1862

From Major J. C. Anderson
Dist Engineer Kistna
To Lieut Col S. A. Ludlow
Dy Chief Engineer
N. C. D. P. W.

Sir

I have the honor to report that the Ellore Canal sustained considerable damage from an unusually heavy flood in the numerous drainages to the Northward on the 3d and 4th inst. There had been less than the ordinary fall of rain previously, and the sudden rush of the water breached the greater number of the Tanks which drain their supply from the drainages and then swept down on the Canal with extraordinary violence.

2 × A report of Major Pollard describing the nature and extent of the breaches is enclosed. I

No 129 × dated 16 instant

detained his report until he could ascertain the probable Cost of the repair. I have now received an Estimate amounting to Rs 3485 which provides for the Closing of the whole of the breaches noticed by Major Pollard. But to this Sum has to be added the Cost of repairing a breach 40 yds wide which was formed in the North bank of the Canal, about 2 Miles from Bazoorah by an extraordinary flood in the Budemain on the 5th inst.— * probably 500 Rs

3 I have not yet been able to ascertain what the fall of rain that occasioned the damage in question amounted to, as it did not extend to this place, but it is evidently of importance that information regarding it should be obtained, as there is otherwise no means of judging of the probability of similar accidents occurring in future or to what extent it will be necessary to add to the Numbers of the Tunnels or Caliguilas, which have been Constructed for passing the drainage water across the Canal.

4 I propose to submit a report on the subject at an early date.—

I have the honor to be
Sir
Your most Obt Servt

J Pullen Major R.E.
Dirg Engineer Kistna

GK

No 127

5th Cyo en chef Mayo's Office

Quinan[illegible]
10th September 1862

From Major D.C. Allan
1st Asst Dist Engineer

To Major J. C. Anderson
Asst Engineer

Subject Examining
Dist Engineers Office

Sir

I have the honor to report
that the Ellore High Level Canal
sustained considerable damage
during the heavy rain of the
evening of the 3d and morning
of the 4th Inst. and the channel
in the vicinity of the Numerous
breaches in the banks was
filled with water to the depth
of 2 feet for the space of
one mile on the night of the 4th.
3 breaches on the Northern
side of the Canal,
the largest 60 feet wide
and 4 feet deep.
One breach on the Southern side
Mutkoor channel, where the channel
is four feet deep, but [illegible]

Good No 396 of 24th Sept 62

K 325

To
Major J. C. Anderson
Asst Engineer Kistna
&c the Supt Chief Engineer
P.W.D.

Dated 16th September 1862
Rec'd 21 "

No 65 Enclosure 1

Reports that the Ellore
High Level Canal
sustained considerable
damage from an unusu-
ally heavy flood in the
Numerous drainages
to the Northward on the
3rd and 4th instant.

P.W. 2887/62

having been about 8 feet of water,
of which 6'6" were against the bank,
the breach has been stopped. 8
breaches, 4 in the North, and 4 in the South
bank, aggregating 197 yards in length,
at Dattipaud, about one mile further
down. These were caused by the drainage
water accumulating against and over
topping the North bank and sweeping
clean across the Canal, and are now
being temporarily closed with ring banks.

4. Breaches at Talpuke Malapilly
tunnel which was entirely submerged,
the water rising over the parapet walls
besides cutting 2 breaches in the
North and 2 in the South bank. The tunnel
discharged freely but was inadequate
to carry off the sudden rush. The depth
of cutting of the Canal at this place
being upwards of 4 feet, nothing
will be done till more important
breaches are repaired.

5 Breaches at Veeravelly tunnel,
one very bad which has been with
some difficulty stopped and is now
being strengthened the others are less
material. This is a large tunnel
of 3 Vents each 6 feet diameter, but
it was greatly choked with sand
and light soil washed in. The
immediate cause of the damage here
was doubtless the breaching of the
large Veeravelly tank situated about
half a mile above the Canal bank.

The worst injuries occurred in the
low ground between Nursaipollem
& Rajmundry, where there are 33 breaches,
measuring altogether 1026 yards in
length, the bank having in a section
of from 16 to 24 yards, and in addition
to the above, the banks have been
more or less injured by the lateral
sweep of the Current, as well as by
sinking for a length of nearly a mile.
Here also the bank as shown by the
water line were over topped by the
accumulation of drainage water,
which bursting in on the upper side
breached the lower bank almost
immediately opposite.

4, The masonry tunnels appear
quite uninjured, although the water
must have passed clean over them,
and the Embankment at the Ends of the

parapet walls was torn away.

5th An Estimate for the repair of the damages is under preparation, but the depth of two of the worst breaches cannot yet be ascertained owing to the water and silt. I regret to say also that it will take at least 3 weeks more, probably 4 to get the Canal into a fit state to receive a small supply of water. Unfortunately long stretches have been more or less filled up with the Earth of the Northern bank washed in and in many cases it is cannot be known taken out unless the Canal were thrown dry for a fortnight even then a few showers of rain would make the earth too soft to remove.

6 The ground generally at the sides of breaches being very hard and clayey, very few deep holes have been cut, only one very bad which appears to be 3 yards in depth and through which water continues 6 hours; the supply will have to be entirely cut off before this can be closed.

7 Labour is unfortunately very scarce as yet only 120 Embankers have been collected, whom it is very difficult to keep together as there is a demand for their services in almost every village, and I believe it will be requisite to apply under Act I of 1858 for Compulsory labour from the Neighbouring Country.

I have the honor to be

Sir

Your obedient Servant

(Signed) D.G. Pollen Major

1st Assn. Divl Engr's Dept

(True Copy)

J. Audrew Major R.E.

Divl. Engineer's Dept

Northern Circle Office
Chapanee 24th September 62

No 396

Endorsement

Ltr 62

Letter from
D. E. Fletcher
No 65 of 16th
September 62
with Plan

Submitted for the information of Government—

The further report—
furnished with be forwarded on
its receipt.—

Denny
Capt RE
for Chief Engineer &c

To
Colonel W. J. Birdwood
Secretary to Government
Department of Public Works

Recd 28th 62

No 396 of 24th Sept 62

K.E.
Enclosure in a
letter from Rt Divn
Engineer Kurrachee
to Chief Engineer
& Secretary to Govt
Public Works Department
16th September 1862

From Asst Chief Engr P.C.
Dy 24th April 63 Ch 1204
in Rio.

No. 494. 495.

Prov. Govt. for Septr
No. 2887.

Inclosure
Chief Engr
Secretary
Governor
Date 24th
Rec'd 26th
Septr
Encls. 2.
No. 396

Return of letter
from the District Engr
Victoria reporting on the
damage done to the Ellor
& Welland Canals by an
unusually heavy flood
on the 3rd and 4th instant.

No. 2321 - 26th September.
William Ogilvie

No. 2321

The Government will
await the receipt of the
further report promised in
place 2 of the foregoing
Endorsement.

26th Sept 1862
Cliepeault

13 Copies
MS Copy To the Dy Ch Engr
No Circle dispd 26th
Encl 2 Octr

No. 87.