M.R.O. 1—77,006—8-6-37.

(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. 3005 Press / ~~Mis.~~
374-379

Dated 18- 12- 1872.

***Not to be folded or roughly handled***

*Proceedings of the Madras Government, Public Works Department,*
*18th December* 1872.

Read the following papers:—

No. 374. From Lieutenant-Colonel J. F. FISCHER, R. E., Acting Superintending Engineer, 1st Division, to the Chief Engineer for Irrigation and Joint Secretary to Government, Public Works Department, dated Dowlaishweram, 26th October 1872, No. 2,648:—

In continuation of my letter of the 18th instant, No. 2,566, I have the honour to forward, herewith, a further report, in greater detail, received from the Executive Engineer in charge of the Western Delta Range, Godavery District, of the damage done by the recent heavy floods to the Ellore Canal.

2 Reports (one in original).
1 Extract of Rainfall Register.
1 Copy of do.
—
4

2. It will be seen from Mr. Walch's report that the Tamilair, "which usually discharges across the Kistna Canal west of Ellore Lock," rose so high as to send a volume of water over the country between Ellore and Dendooloor, north of this canal. This water, added to that of great numbers of tanks which burst, being more than that which could be passed through the passages and under the canal, rose till it topped and breached the banks in many places, the worst being round wings of under-tunnels Nos. 8 and 9 at the 43rd and 44th miles, sketches of which are shown in the report.

3. Government will observe that Mr. Walch's first object was to secure the safety of the masonry works, which was of paramount importance, and I must, in justice to this officer, say that it is mainly through the prompt measures taken by him that further injuries to these works have been arrested.

4. I take this opportunity of also forwarding, herewith, copy of a report received from the Executive Engineer in charge, No. 4 or Ellore Range, Godavery District, of the town of Ellore having been flooded about midnight of the 4th instant by the discharge of a large volume of water from the Tamilair.

5. Lieutenant Dorward states that this inundation is said to be unparalleled, both in regard to extent and to fury, within the memory of any living man. The water in the Assistant Collector's house was two-and-a-half feet deep and those parts of the town which lie to the north of the canal are three parts destroyed, and that it is reported that 1,000 houses have been demolished and 4,000 people are now homeless.

6. It will be seen further that Lieutenant Dorward reports that public works have suffered, much notably the canal, the banks of which have been breached in many places and all traffic stopped.

7. Copy of the extract from the Rainfall Register kept in the No. 4 Range Office, alluded to in Lieutenant Dorward's report, which is the same as that which accompanied Mr. Walch's report, is enclosed for the information of Government.

8. Canal traffic to Ellore will be restored by the 1st of November and a full supply will be sent down the canals by, I trust, the 18th, which will be ample time for the irrigated crops. There will be loss in consequence of land being inundated; as, however, the water has subsided I trust the loss will not be as great as it at one time threatened to be.

## *Proceedings of the Madras Government, Public Works Department, 18th December* 1872.

From G. T. WALCH, Esq., Executive Engineer, No. 3 or Western Delta Range, Godavery District, to the Superintending Engineer, 1st Division, dated Ellore, 22nd October 1872, No. 230.

I HAVE now the honour to give in fuller detail the information with reference to damage done by late floods to Ellore Canal which I have already partly given demi-officially. On the 4th rain* fell in torrents (in Ellore 8·27 in the twenty-four hours) over the valleys of the Tamilair and Gundair. The former, which usually discharges across the Kistna Canal west of Ellore Lock, rose so high as to send a large volume of water over the country between Ellore and Dendooloor, north of this canal. To the water running off the *Gundair* valley was added that of great numbers of tanks which burst. The passages across and under the canal being insufficient to pass the immense volume of water thus poured down on it, the water rose† till it topped and breached the banks in many‡ places, the worst being round wings of "under-tunnels" § 8 and 9.

* See accompanying extract from No. 4 Range Rain Register.

† It went six inches over top of parapet of No. 9 under-tunnel (old style) in 44th mile and two feet over tow-path of under-tunnel No. 8 (new style) 43rd mile.

‡ See accompanying estimate.

§ More correctly, aqueducts.

2. Supervisor N. Kotiah received information of the damage on the 6th but did not report the same to me till he had been to see it, and as I was some seventy miles away I heard nothing about the matter till the afternoon of 9th. I started at once, and, considering the securing the safety of the masonry works to be of paramount importance, I did not stop at any of the mere bank-breaches but pushed on to "under-tunnels" 8 and 9, which I reached on the 11th. I found at the former the outside water flowing across canal some three feet deep above true bed of canal through gaps round the eastern wings, and, as might be expected, holes scoured out endangering the safety of the work. Nine feet of north-eastern wing had already fallen the day previously, and the fall of more seemed imminent. At "under-tunnel" No. 9, in 44th mile, the outside water had already fallen below the level of that in canal, which fed by inlet (Ponangy) just beyond was pouring *out* through gaps, originally made by outside water, round eastern and south-western (1) wings.

3. As soon as I could get some coolies I cleared the two western bays of Ponangy outlet of a dam formed in front of the shutters by palmyra trees, date trees, jummu grass, and other debris, and opened more a breach in southern bank in 43rd mile, just above under-tunnel No. 8.

4. By these means I reduced the water (coming in at breaches and inlets in north bank) flowing down to and through the gaps near the masonry‖ works, and having got 300 sacks, bamboos, etc., from Ellore, I was with these and some stone at hand able on the 12th to arrest the scours most endangering the under-tunnels. Next day ring-bunds were put at the places, and since then putting new banks has been going on, but more slowly than I had hoped, for on two days village feasts took away nearly every cooly and frequent heavy showers have hindered work.

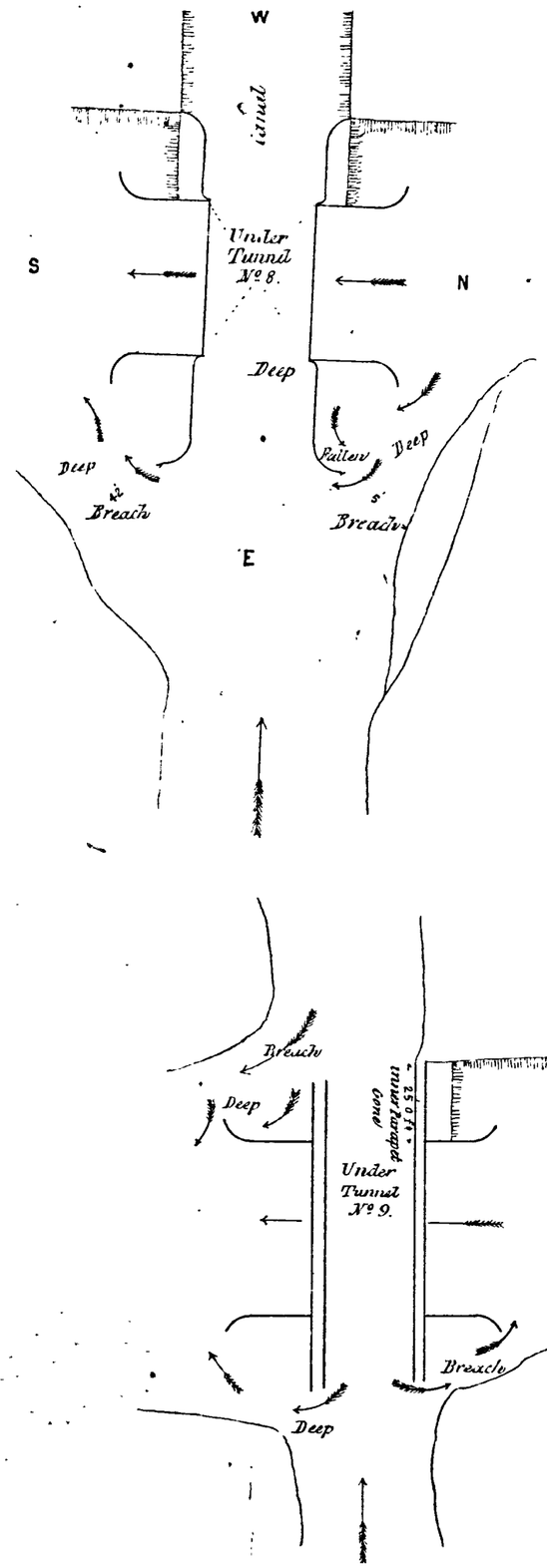
‖ By this time water at under-tunnel 8 was also flowing *out*.

5. Traffic was till 20th stopped at Pulla (31st mile). Since then it has been able to get to Gundugole (38th mile); but, in order to get in some revetments and close one very deep cut on southern side of canal in 43rd mile, now kept open as a safety valve, I propose to entirely close this canal from 28th to 31st inclusive, after which communication¶ with Ellore will be reopened and enough water sent down to keep crops dependent on canal near its end from perishing. Before full supply can be sent down probably another two or three weeks must elapse.

¶ For moderately-laden boats.

6. *Colair Lake.*—The immense body of water poured into the Colair Lake raised its level* till on the 9th it reached + 6·75, at which level it remained till the 12th and then commenced to fall slowly. At level named it was three feet nine inches above crest of Chinakaparam flood calingulah. Almost all land west of Akeed Canal has thus been submerged, and I fear the greater part of the crops on it will be ruined.

* Ordinary level, + 1·5.
Do. rainy season, + 3
See paragraph 51 of Captain Ryves' Memorandum, Appendix No. 1 to report on Completion Project.



7. *Yerracalwa.*—The Yerracalwa again came down reaching its maximum on the 8th, when it was five feet six inches on Duvah weir,* rendering it necessary again to open Undi Canal head-sluices, and, as the drainage of the country between that canal and Akeed Canal was choked by the extraordinary height of Colair and Upputair, the lands which in my report of 4th instant (No. 214) were spoken of as "draining rapidly" have again, I fear, been swamped.

* Crest + 16·5.

*Rainfall from 1st to 9th October 1872 at Ellore.*

| Date. | | | | | | | | | Inches. |
|---|---|---|---|---|---|---|---|---|---|
| 1st October 1872 | ... | ... | ... | ... | ... | ... | ... | ... | 0·40 |
| 2nd ,, ,, | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 3rd ,, ,, | ... | ... | ... | ... | ... | ... | ... | ... | 0·60 |
| 4th ,, ,, | ... | ... | ... | ... | ... | ... | ... | ... | 8·27 |
| 5th ,, ,, | ... | ... | ... | ... | ... | ... | ... | ... | 2·40 |
| 6th ,, ,, | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 7th ,, ,, | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 8th ,, ,, | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 9th ,, ,, | ... | ... | ... | ... | ... | ... | ... | ... | 2·47 |

(True Copy of Extract from No. 4 Register.)

(Signed) G. T. WALCH,
*Executive Engineer.*

---

From Lieutenant J. F. DORWARD, R. E., Executive Engineer, No. 4 Range, Godavery District, to the Superintending Engineer, 1st Division, dated Ellore, 15th October 1872, No. 308.

I HAVE the honour to forward, for your information, an extract from the Rainfall Register kept in this office for the first ten days of the current month.

2. You will observe that a heavy rain-storm occurred on the 4th instant. A large volume of water came down the Tamilair, and the town of Ellore was severely flooded about midnight of that day. This inundation is said to be unparalleled, both in regard to extent and to fury, within the memory of any living man. You will be able to form some idea of it when I mention that the water in the Assistant Collector's house was two-and-a-half feet deep. The Travellers' Bungalow was also submerged, and the verandahs of the Range Office were similarly situated. Those parts of the town which lie to the north of the canal are three parts destroyed; report says that the number of houses which have been demolished is 1,000, and that 4,000 people are now homeless. Senevarapetta and other outlying villages are in the same state.

3. I regret that I have not been able to report to you at an earlier date. At the time the disaster occurred I was absent from head-quarters on my way to Nagaverum. I had reached the banks of the Yerracalwa, near Jungumreddygoodem, when the swollen state of that river and the generally inundated state of its valley turned me back, and it was with great difficulty that I managed to get back here by noon yesterday.

4. Public works have, of course, suffered, notably the canal. The water appears to have risen above the banks, breached them in many places, and then to have drained away. All traffic is, of course, stopped. You will doubtless receive a report from Mr. Walch of the damage done in his range, and I now forward an estimate showing the cost of repairs in my portion. The maintenance allowance is, of course, insufficient to meet this charge, and I trust that you will sanction the estimate and appropriate funds at an early date. I have commenced work. Mr. Walch is to meet me to-day to arrange about the reopening of the canal, which, I trust, will be effected in six or seven days. The tumbling shutters at the Ponangy escape have been very badly injured. I will consult with Mr. Walch as to what had best be done there; meanwhile, I have provided for restoring the usual embankment in front of them. The work of the officers in

charge of the Kistna portion will be much heavier, for in addition to the breaches the Tamilair has deposited an enormous quantity of sand in the channel bed.

5. The short piece of the trunk road which has been made in the town is also breached and otherwise damaged. I shall be able to forward an estimate for its repair in a day or two.

6. The first thirteen miles of the road to Chintalapoody, which runs close to the river, are also injured. I shall send in an estimate as soon as I have inspected them.

7. The last half of the road to the Colair Lake was submerged; but, as this is only an earthen road, the damage done is, I hope, not very great.

8. The injury to the canal and other public works caused by even moderate floods in the river, and the loss and misery entailed upon thousands of wretched natives by such floods as the two last, surely call for some remedial measure, and the most effective way of controlling the floods in the Tamilair would be by the construction of reservoirs at different points of its course. You are aware of the opposition which has been offered to the Janumpetta Project by the Zemindars who own the ground on either bank; but the injury done to their estates by the flood under notice must have aroused them from their apathy, and they as well as the inhabitants of Ellore may now be willing to contribute towards the cost of the necessary works. I shall make inquiries about this and report further.

---

*Rainfall from* 1st *to* 10*th October* 1872 *at Ellore.*

| Date. | Inches. |
|---|---|
| 1st October 1872 ... ... ... ... ... ... ... | 0·40 |
| 2nd ,, ,, ... ... ... ... ... ... ... | ... |
| 3rd ,, ,, ... ... ... ... ... ... ... | 0·60 |
| 4th ,, ,, ... ... ... ... ... ... ... | 8·27 |
| 5th ,, ,, ... ... ... ... ... ... ... | 2·40 |
| 6th ,, ,, ... ... ... ... ... ... ... | ... |
| 7th ,, ,, ... ... ... ... ... ... ... | ... |
| 8th ,, ,, ... ... ... ... ... ... ... | ... |
| 9th ,, ,, ... ... ... ... ... ... ... | 2·47 |
| 10th ,, ,, ... ... ... ... ... ... ... | ... |
| Total... | 14·14 |

(Signed) J. F. DORWARD, Lieutenant, R. E.,
*Executive Engineer in Charge, No.* 4 *Range, Godavery.*

---

No. 375. From the Officiating Superintending Engineer, 2nd Division, to the Acting Chief Engineer for Irrigation, dated Bezwadah, 29th October 1872, No. 116.

In continuation of my letter, No. 103, dated 7th instant, I have the honour to report that very considerable progress has been made with the repair of the Ellore Canal, and that it will be reopened for traffic throughout its entire length about the 5th proximo. To-morrow it will be navigable for a distance of thirty-five miles from Bezwadah.

2. The emergent repairs* of this channel will cost Rupees 11,000, and a further sum of Rupees 9,000 will probably be required to completely cover the damage done by the recent sudden and extraordinary flood.

* Closing breaches and clearing silt.

3. With a few trifling exceptions the masonry works are uninjured. They were saved by the canal breaching both its banks and allowing the waters of the Boodamair and Tamilair to flow freely off by the old natural drainage outlets.



4. From what has happened it is evident that the waterway provided to pass the drainage intercepted by the Ellore Canal is insufficient, and that a very large addition must be made to it if anything like a fair proportion of similar floods is to be discharged in a reasonable time.

---

No. 275.

No. 376. *Note by the Acting Chief Engineer for Irrigation.*

The Superintending Engineer of the 1st Division forwards reports from Mr. Walch and Lieutenant Dorward furnishing more detailed information than was afforded in his letter, No. 2,566, dated 18th October 1872, relative to the injury done by the heavy rain which fell on the 4th and 5th October in the valleys of the Tamilair and Gundair.

8″·27.
2″·4.
10″·67.

2. Mr. Walch appears to have acted with his usual energy, promptitude, and discretion, and thereby to have preserved the under-tunnels 8 and 9 in the 43rd and 44th miles of the Ellore Canal, which were in imminent danger. The injury to masonry works in the portion of the canal in the Kistna District appears to have been small, but the total cost of damage in that district is given at Rupees 20,000. The probable cost of restorations in the Godavery District is not stated.

3. Through communication in the Ellore Canal was expected to be opened in the Godavery District on the 1st instant for moderately-laden boats and in the Kistna District on the 5th; but the canal in the Godavery section was not expected to be able to pass a full supply for two or three weeks later, though sufficient water would be passed in the interim to secure the crops.

4. In 1864 the canal appears to have been breached much as it has now been, and estimates for works then proposed to relieve the canal were sanctioned on the 30th August 1865, and have since, it is believed, been fully carried out. These works, judging by the results of the heavy rain in October last, would appear to be insufficient.

Report in G. O., No. 484, of 18th February 1865.
G. O., No. 2,529.

5. From paragraph 15 of the late Major Ryves' report, dated 1st July 1865, No. 559, it would appear that certain arrangements were proposed for relieving the canal in the neighbourhood of the western branch of the Tamilair during what are termed "impossible" floods, by leaving a hundred yards on both sides of the canal comparatively low and weak that they might yield before a heavy flood and thus provide extra discharging power. Nothing is said in the report relative to any relief having been obtained by destroying the banks at this locality, and hence it is probable that the bank had been raised and strengthened and that the relief anticipated at this point was not obtained. In paragraphs 18 and 19 of the same report it is suggested that the bunds of the tanks in the valleys the drainage of which is crossed by the Ellore Canal should be strengthened and that the tanks should be provided with efficient weirs, and in letter, No. 2,530, of 30th August, to the Resident at Hyderabad, it was requested that

G. O., No. 2,529.

the attention of His Highness the Nizam's Minister might be called to the condition of the tanks in the valley of the Tamilair, while in G. O., No. 2,529, the Collector of the Kistna District was requested to draw the attention of the Noojeed Zemindar to the state of the tanks in his Zemindari which lies in the Ramiliar Valley. Before going into the question of what further provision should be made for the passage of drainage across the Ellore Canal it would be well to ascertain as nearly as possible what has been done by way of rendering the tanks above the Ellore Canal safe, what number of tanks were breached in October, and what was the approximate volume of water released from the reservoirs which breached and which tended to swell the already heavy floods of the drainage channels which cross the Ellore Canal.

6. The water in the Colair Lake appears to have risen to 6·75, or to 5¼ feet above its normal level, by the 9th. This represents about 800 millions of cubic yards of water, and this independently of what may have been drained off during the five days, from the 4th to the 9th, and gives an average discharge of about 7 millions per hour, while the works for the discharge of the drainage from the Tamilair and Ramiliar Valleys provide for about half this quantity; it is probable, however, that a large portion of the supply received by the Colair Lake was supplied by the Boodamair Valley.

FORT ST. GEORGE,
16*th November* 1872.

(Signed) R. F. OAKES, Major, R. E.,
*Acting Chief Engineer for Irrigation.*

---

No. 377. ORDER THEREON, 18th December 1872, No. 3,005.

IRRIGATION, No. 26.

IT is clear from a perusal of these papers that the question of how best to pass the drainage water across the Ellore Canal is still unsolved, and His Excellency the Governor in Council resolves to call upon the Chief Engineer for Irrigation to arrange for a competent Officer of the staff in each district concerned being temporarily placed on special duty, with a sufficient number of Surveyors temporarily entertained for the duty to assist, with a view to a thorough examination of the whole question and the submission of designs and estimates for such arrangements as may recommend themselves. The nature of the investigations to be carried out should after a personal inspection of the localities, if thought necessary, be sketched out by the Chief Engineer for Irrigation and sanction be at once sought for any temporary establishments that may be deemed necessary.

(True Extract.)

Colonel, R. E.,
*Secretary to Government.*

To the Chief Engineer for Irrigation.
,, District Engineers, Godavery and Kistna.
,, Controller of Public Works Accounts.

Exd. A. S. Rodgers.

---

SUPERINTENDING ENGINEER'S OFFICE, 1ST DIVISION
DOWLAISHWARUM, 26th October 1872.

No. 2648

From

Lieutenant-Colonel R. Fiddian R.E.
Superintending Engineer
1st Division

To

Major R. F. Oakes R.E.
Chief Engineer for Irrigation
Secretary to Govt. P.W.D.
MADRAS

SIR,

In continuation of my letter of the 18th Instant No. 2566, I have the honor to forward herewith a further report, in greater detail, received from the Executive Engineer in charge of the Western Delta Range Godavery District of the damage done by the recent heavy floods to the Ellore Canal.

2. It will be seen from Mr. Valeh's report that the Tumelair which usually discharges across the Kistna Canal west of Ellore Lock, rose so high as to send a Volume of water over the Country between Ellore and Dendulur north of this Canal. This water, added to that of great numbers of

of tanks which burst, being more than that which could be passed through the passages and under the Canal, rose till it topped and breached the banks in many places, the worst being round Wings of under-tunnels Nos 8 and 9 at the 43d and 44th miles, sketches of which are shewn in the margin of the report.—

3. Government will observe that Mr Walch's first object was to secure the safety of the masonry works which was of paramount importance and I must in justice to this Officer say that it is mainly thro' the prompt measures taken by him that further injuries to these works have been arrested—

4. I take this opportunity of also forwarding herewith copy of a report received from the Executive Engineer in charge No 11 or Ellore Range Godavery District

District of the Town of Ellore having been flooded about midnight of the 4th Instant by the discharge of a large Volume of water from the Pummelair—

5. Lieutenant Dorward states that this inundation is said to be unparalleled, both in regard to extent and to fury, within the memory of any living man. The water in the Assistant Collector's house was 2½ feet deep and those parts of the Town which lie to the north of the Canal are three parts destroyed, and that it is reported that one thousand houses have been demolished and four thousand people are now homeless

6. It will be seen further that Lieutenant Dorward reports that Public Works have suffered much notably the Canal, the banks of which have been breached in many places and all traffic stopped—

7. Copy of the Cockrack from the Rain-fall Register

Register Reports in the No 4 Range Office,
alluded to in Lieutenant Dormand's Report,
which is the same as that which accompanied
Mr Dalel's Report is inclosed for the in-
=formation of Government -

8. Canal traffic to Ellore will be
restored by the 1st of November and a full
supply will be sent down the Canals by B
trust the 18th which will be ample time for
the irrigated Crops, there will be loss in-
= consequence of Canal being immediated
as however the water has subsided I trust
the loss will not be as great as it at
one time threatened to be

I have the honorable
Sir
Your Most Obedt Servt
J W Ward Capt R E.
Fit for Superintending Engr 1st Div

No. 1872.

From

The Superintending Engineer,
First Division.

To

The Chief Engineer for Irrigation
MADRAS

Dated 26th October 1872

Received 15 Nov -a-

No. 2648

Enclo. Four

## Subject.

Forwards a further report in greater detail received from the Executive Engineer in charge western Delta Range Godavery District of the damage done by the recent heavy floods to the Ellore canal

P.W. 5077/1 --

No 374

No 116

Superintending Engineer's
Office 2nd Division
Bezwada 29th October 1872

From

P. Smith Esquire
Offg Superintending Engineer
2nd Division

To

Major A. F. Cadell RE
Acting Chief Engineer
for Irrigation -

Sir

In continuation of my letter No 103, dated 7th instant, I have the honor to report that very considerable progress has been made with the repair of the Ellore Canal, and that it will be re-opened for traffic throughout its entire length, about the 5th proximo - Tomorrow, it will be navigable for a distance of 35 miles from Bezwada -

2. The emergent repairs of this channel will cost Rupees 11,000 and a further sum of Rupees 9,000

closing breaches and clearing silt

will probably be required to
completely cover the damage
done by the recent sudden,
and extraordinary flood.

3. With a few trifling exceptions,
the masonry works are uninjured;
they were saved by the Canal
breaching both its banks and
allowing the waters of the
Boodamair and Kunalair, to
flow freely off by the old
natural drainage outlets.

4. From what has happened
it is evident that the waterway
provided to pass the drainage,
intercepted by the Ellore Canal,
is insufficient, and that a very
large addition must be made
to it, if anything like a fair
proportion, of rainfall floods,
is to be discharged in a
reasonable time.

I have the honor to be,
Sir
Your most obedt Servant
J. Smith
Lt. Engrs Engineer 2nd Dist

13

No 308

No 4 Range Office
Ellone 15th October 1872

From

The Executive Engineer

No 4 Range Godowery District

To,

The Superintending Engineer

1st Division

Sir,

I have the honor to forward for your information, an Extract from the Rain-fall Register kept in this Office, for the first ten days of the Current month.

2 You will observe that a heavy Rain storm occurred on the 4th Instant. A large volume of water came down the Attreilan, and the town of Ellone was severely flooded about midnight of that day. This inundation is said to be unparalleled, both in regard to extent and to any within the memory of any living man. You will be able to form some idea of it when I mention that the water in the Assistant Collector's house was 2½ feet deep; the Travellers Bungalow was also submerged, and the Verandahs of the Range Office were similarly situated. Those parts of the town which lie to the North of the Canal are those parts destroyed, report says that the number of houses which have been demolished is one thousand, and that four thousand people are now homeless. Senevarapella and other outlying Villages, are in the same state.

3 I regret that I have not been able to report to You at an earlier date. At the time the

No 116

Executive Engineer's Office
Received 5th October 1872.

Executive Engineer's Progress
from 1st to 10th October 1872.

Extract from Rain-fall Register kept in this Office for the first ten days of the Current month.

| Date | Inches |
|---|---|
| 1st | 0.00 |
| 2nd | 0.00 |
| 3rd | 0.00 |
| 4th | 5.00 |
| 5th | 0.00 |
| 6th | 0.00 |
| 7th | 0.00 |
| 8th | 0.00 |
| 9th | 0.00 |
| 10th | 0.00 |
| | 5.00 |

Received 15th October 1872.

Rec.d 5th Nov.r 72.

Oct 5/72

Rain-fall from 1st to 10th October 1872 at Ellore Ft.

| Date | | Inches | |
|---|---|---|---|
| 1872 October | 1st | — | 40 |
| | 2nd | — | — |
| | 3rd | — | 60 |
| | 4th | 8 | 27 |
| | 5th | 2 | 40 |
| | 6th | — | — |
| | 7th | — | — |
| | 8th | — | — |
| | 9th | 2 | 47 |
| | 10th | — | — |
| Total | | 14 | 14 |

/ signed / J. F. Dorward Lieut. R.E.
Ex. Engineer in charge 1st Range
Godavery

/ True Copy /

W. Arnold Capt. R.E.
for A.G. Supdg Engineer 1st Dn

Rainfall from 1st to 9th October — 1872
at Villore.

| Date | Inches. |
|---|---|
| October 1 | . 40 |
| 2 | - - |
| 3 | - 60 |
| 4 | 8 27 |
| 5 | 2 40 |
| 6 | - - |
| 7 | - - |
| 8 | - - |
| 9 | 2 47 |

True copy of letter from the Acting Chief Engineer

Executive Engr

Ch
4/749/72

B. W. s 6777/72

Enclosure in a letter
No. 2648 dated 26th October 72
from the Superintending
Engineer 1st Division to the
Chief Engineer for Irrigation
Madras.

P.R.D. 17

Proceedings of the Madras Government

Read the following:-

From,

The Chief Engineer
for Irrigation

(M. E. No. 275 of 16 Jan 1872)

3005

It is clear from a perusal of these papers that the question of how best to pass the drainage water across the Ellore Canal is still unsolved, and His Excellency the Governor in Council resolves to call upon the Chief Engineer for Irrigation to

P.R.D. 3/1691/72

to arrange for a competent Officer of the Staff in each district concerned, being temporarily placed on special duty with a sufficient number of Surveyors temporarily entertained for the duty to assist, with a view to a thorough examination of the whole question and the submission of designs and estimates for such arrangements as may recommend themselves. The nature of the investigations to be carried out should after a personal inspection of the localities, if thought necessary, be sketched out by

295

by the Chief Engineer for Irrigation, and sanction be at once sought for any temporary Establishments that may be deemed necessary.

Otis.

G.W.W.

55

4

To
The Actg Chief Engr
for Irrigation
12 " Supg Engr 2nd Circle 7
" Dy Engrs Goravery & Kistna
" Controller

Recd 21/12/77

No 567

Govt. of {1872} Madras.

PUBLIC WORKS.

To The Chief Engr for Irrigation

Dated

Recd. Encl. 6

G. O. 18 Dec 1872, No. 3005.

Nos. 374 & 377

Kllore Canal. Papers relative to the Chief Engr for Irrigation on Reports of the damages done by the Kllore Canal.