

(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. 296, 297, 298	478	Press Mis.
Dated	14.2	1873.

Not to be folded or roughly handled

12

*Proceedings of the Madras Government, Public Works Department,
14th February 1873.*

No. 296. Read the following Proceedings of the Madras Government in the Revenue Department, dated 4th January 1873, No. 2.

Read the following Proceedings of the Board of Revenue, dated 16th December 1872, No. 2,397.

Read the following letter from the Acting Collector of the Kistna District, to the Secretary to the Board of Revenue, dated Masulipatam, 16th November 1872, No. 2,751.

I HAVE the honour to report on the damage that has been caused in the district by the recent floods induced by the rains that fell in the latter part of September and the beginning of October last.

2. The taluqs that have suffered are Bapatla, Repalli, Bander, and Gudivada. Bezwada has suffered to a slight extent, and Guntur, but these two not sufficiently to call for any special report.

3. Commencing with the Bapatla Taluq, I see by the reports of the Range Officer, which Mr. Smith has sent me for perusal, that the Commamore Channel has been breached in many places, not badly. The Commamore tank sluice has been destroyed. A calingulah, a little lower down, has been destroyed, and a good deal of work that had been done in the way of strengthening the banks of the channel has been washed away. The Ramparu drainage channel has been breached in four places, but three of these breaches are believed to have been the work of the ryots. Of the roads in this taluq, a short piece from Ponnur to Bapatla has been damaged at the bridge over the Tungabudra; that from Buddam to Karlapalem has been damaged at the Salt creek; the road from Inkole to Kadavacuduru is also injured.

4. In regard to the loss of crops, the Tahsildar reports that all the water-courses and channels that run into the Ramparu swamp brought down a vast quantity of water inundating the crops of thirteen villages that he particularizes, and of others in the low lying part of his taluq. The whole country was under water between Bapatla and China Ganjam, where there is a good deal of wet cultivation, chiefly the "Sonalu" or spring channel wet lands. The Tahsildar has made no estimate of the loss that the ryots have sustained, but I am not sanguine that the necessary remissions in the approaching Jamabandi will be less than Rupees 10,000.

5. In the Repalli Taluq, in consequence of the precautions taken by Messrs. Sage and Norris, no serious damage has occurred to the irrigation works; and the Tahsildar reports that the crops about Arambaka are in a fair state, as the water is running off. Nearer towards the Kistna river, about Kanagala, the crops were reported still under water on 19th October, but the water was running off; and, as the tops re-appearing were found to be still healthy looking, it is hoped that the loss of crop will be only a partial one. Some of the wet crop that has been under water thirteen days is said to be still alive. The crop under the Chandole Kottawada has died under the water. About Chandole and Yajili, the water was said to be standing 5½ feet deep on the wet lands, and all about Buddam there was a great deal of water all over the country, and the Ponnur and Chandole road has been breached. The Tahsildar gives no estimate of the loss of crop; and, in fact, it must be difficult to do so, as, until the water has run off, it is impossible to say what crop is alive or what has perished.

6. In the Bander Taluq, the damage to works has not been very great. The chief mischief has been done in the unfortunate Divi Division again, and the Tahsildar writes, after traversing the greater part of it, that he has seen of the crops either dry or wet very little that remains uninjured. The rice that was got into the ground early does not appear to have suffered much; but those fields that were in the course of transplantation or had only been transplanted a short time before have entirely lost their crops, and unfortunately, the season generally in the division was later.

7. The Tahsildar estimates that the loss of wet crop will entail a remission of at least Rupees 11,000; and he adds that land bearing an assessment of Rupees 8,000 has not only lost its dry crop, but has been so cut up by the water that it will not be possible this year to get it ready for pyra or later crop. This, however, is a matter on which, I think, he is mistaken. He reports great loss of cattle in the division from the wet and absence of pasture, saying that the number of deaths is upwards of 2,000. A good deal of damage has been done to the lands of the Davaracotta Estate now under attachment for arrears of revenue, and I believe that the estates of the Wallur and Nuzid Zemindars have also suffered. Three large breaches were made in the Bander Canal, chiefly in consequence of the influx of water into the Ellore Canal from the Budamair.

8. The Budamair, a hill stream, having its source in the hills about Kondapalli, is carried under the Ellore Canal about eight miles from Bezwada. There appears to be nothing like sufficient opening to discharge the flood water that came down, and it consequently rose and over-topped the aqueduct, so entering the canal. It also breached the canal nearer Bezwada and ran back up to Bezwada, whence it went down the Bander Canal. The Ellore Canal was again breached on the other side and the Collair lake by that means, and the flood waters of the Tamiler filled, inundating all the country about it and the lankas in it.

9. For four miles the canal banks are described in being simply "riddled with breaches," and the amount of silt deposited in the canal quite choked it up for a distance of 2,000 yards, and traffic was entirely stopped. Mr. Peters has shown great energy and activity in exerting himself to get done what was needed in repairing the canal.

10. The Gudivada Tahsildar reports that the water in the Collair lake rose higher than it had ever done before, and the Upputair, its escape, not only was unable to carry off the flood water, but itself also overflowed. The flood water reached the town of Gudivada and there did damage to some houses. The Tahsildar's examination was made on a Sangadi or boat, as the cultivated land was five, seven, and even eight feet under water in the villages around the Collair lake. The cultivated lands in the lake itself were not only in places not visible, but also not to be reached by the poles with which the Sangadi was pushed along. The loss of cattle is reported to be about 1,000 drowned, and about 6,000 died of disease consequent on the wet. Until the water is run off, it is not possible to make an exact estimate of the injury that has been done, but I suppose damage has been done to land paying about Rupees 50,000 to Government. The roads in this Delta have been damaged, but these are mud banks at present and their repairs will not cost very much.

11. Altogether this rainfall, which no where exceeded eight inches in the twenty-four hours and in the place where it was greatest was only ten inches in four days, has done damage to Government alone to an amount of little less than 1 lakh of Rupees, for I believe that the repairs necessary to the canals will not cost less than Rupees 20,000. The defective drainage throughout the Deltas has been the main cause of all this damage; and I am strongly of opinion that, in lieu of further extending our irrigation schemes in the Kistna, all our attention should be turned to improving the drainage. The irrigation schemes, as they stand, if not complete in themselves, furnish ample water for the wet cultivation that is in existence; while the improvement of the drainage would render fit for wet cultivation land that would amply suffice for the population that increases at the rate that the population of this district is doing. The almost absolute impossibility that exists in getting labour for the public works of the district, tends to show in my opinion that there is as much land now under cultivation as is necessary for the people.

12. As a method of assisting the villagers on the Collair to recover some of their losses, I am about to address the Superintending Engineer on the feasibility of re-placing the old dam on the Perantalu Kanama, and so retaining sufficient water in the lake to enable the ryots to undertake the Dalwa cultivation which they have been obliged to forego since the dam was removed. I shall address the Board more fully on this subject when I have received Mr. Smith's views on the matter.

13. I have also decided to postpone the sale of any more of the grazing lands about that part and in the lankas, as, should the Dalwa crop be grown, I should have to cancel the sales.

14. I have not been able to depute any European Officer to inspect the last three taluqs on which I have reported, but as soon as Mr. Campbell has completed a tour he is making around the northern part of his charge, I shall send him down to Gudivada, and when my Assistant, who I see has been gazetted, arrives, I shall myself proceed to Divi.

15. I am glad to say no loss of human life has been reported.

This report will be submitted to Government for their information.

2. The damage done by the floods seems to have been confined to the four Delta taluqs, but it is clear that no accurate estimate of the extent to which the crops have suffered can be at present framed.

3. The Collector will report again when the actual result is better known.

4. The special attention of Government is called to the Collector's remarks in paragraph 11 on the defective drainage of the Delta. This important point has often been noticed before, and the Board fear the attention of Engineers has not been sufficiently directed towards it. In their Proceedings of the 25th July 1870, No. 3,112, the Board, in reviewing the causes which have impeded ryots from availing themselves of the facilities for irrigation afforded by the anicut, said:—"The drainage of the Delta is admitted on all hands to be incomplete and this has compelled the relinquishment of water in many instances." It is certainly of very great importance that a free outlet for flood water should be provided both on the north and on the south of the Kistna, not only to save the crops from destruction, but also in a sanitary point of view.

*Proceedings of the Madras Government, Public Works Department,
14th February 1873.*

Miscellaneous.

THESE papers will be communicated to the Department Public Works with reference, particularly, to paragraph 11 of the Collector's report.

2. The Board will request the Collector to report whether he requires any extra assistance in conducting the Settlement of the year, owing to the numerous claims for remission which will arise. If so, a Deputy Collector could be temporarily appointed to the district.

(True Extract.)

(Signed)

D. F. CARMICHAEL,
Secretary to Government, R.D.

No. 9.

No. 297.

Note by the Chief Engineer for Irrigation.

THE drainage of the Kistna Delta has been receiving attention for some years past, and in December 1870 it was gone into in detail with the then Superintending Engineer. When the improvements have been carried out, flood waters will find a readier outfall to the sea, and submerged lands will be relieved the sooner. There is, however, I fear, but little probability of drainage works being carried out on anything like the scale which would be necessary to prevent damage in a season like the past one. A rainfall of 8 inches in 24 hours can seldom, if ever, be dealt with effectually by artificial works, the flood waters must in such cases spread, and all that can be done is to provide for their draining off gradually, but as rapidly as circumstances will allow.

FORT ST. GEORGE,
8th January 1873.

(Signed)

J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 298.

ORDER THEREON, 14th February 1873, No. 478.

IRRIGATION, No. 16.

His Excellency the Governor in Council is of opinion that the note by the Chief Engineer for Irrigation is not sufficiently explicit on the points urged by the Collector of the Kistna District and the Board of Revenue. They would postpone extension of irrigation to conservation of land already irrigable; and to meet their remarks, it is desirable that report should be made of the nature and extent of the drainage improvements decided on in December 1870, how far such improvements have been carried out in the two years that have elapsed since that date, and what provision is made for continuing them in the ensuing season; a sketch of the new works carried out or commenced within the same periods being given for comparison.

2. The Order No. 3,005 of 18th December 1872, already passed with reference to the drainage crossing the line of the Ellore Canal, will be extended to embrace the question of drainage generally. And although, as remarked by the Chief Engineer for Irrigation, a rainfall of 8 inches in 24 hours cannot be entirely disposed of by such works as are likely to be planned and passed, such excessive fall does not affect whole districts; and the more moderate average fall

*Proceedings of the Madras Government, Public Works Department,
14th February 1873.*

generally prevalent may, on the whole, be met by well-planned works. It is to the exact consideration of all the circumstances fixing such average fall as should be provided against that the attention of the Chief Engineer for Irrigation will be required in instructing the officers specially employed on the duty in question.

(True Extract.)

Colonel, R. E.,

Secretary to Government.

To the Chief Engineer for Irrigation.

„ District Engineer, *Kistna*
„ Revenue Department.
„ Board of Revenue.

Exd. E. C. Shunker.

1873, Richard
 D. G. of 1873, Hyderabad.

REVENUE.

THE PUBLIC WORKS DEPARTMENT.

Dated January 4th.

Recd. — 9

G. O., 4th January 1873, No. 2.

JANUARY.

Nos. 3-4.

Damage caused by floods in Kistnah District. — Proceedings Board of Revenue, submitting the Collector's report on this subject, communicated to the Public Works Department. Collector to report whether he requires any extra assistance in conducting the Settlement of the year.

No 176
 6/15/73

No 478. 14th Feb 73.

N. G. 9c P 4
 Note by the Chief Engineer for Irrigation

The drainage of the Kistna Delta has been receiving attention for some years past, and in December 1870 it was gone into in detail with the then Superintending Engineer. When the improvements have been carried out, flood waters will find a ready outfall to the sea, and submerged lands will be relieved the sooner. There is however, I fear, but little probability of drainage works being carried out on anything like the scale which would be necessary to prevent damage in a season like the past one. A rainfall of 8 inches in 24 hours can seldom, if ever, be dealt with effectually by artificial works, the flood waters must in such cases spread, and all that can be done is to provide for their draining off gradually, but as rapidly as circumstances will allow.

Fort St George 3 Whilumlines St. C. M. R.
 8th January 1873 Chief Engineer for Irrigation.
 To The Secretary to Govt. P. W. D.

M. R.

P. W. Sept
No 1478

Proceedings of the Madras Government
Under date the 11th January 1873.
Read the following

Proc. of Madras Govt
Proc. Sept. Here enter No 2 of 4th Jan 1873

From the Chief Engineer
for Irrigation. (Here enter No 9 of 8th Jan 1873)

His Excellency
the Governor in Council
is of opinion that the
note by the Chief Engineer
for Irrigation is not suf-
ficiently explicit on the
points urged by the
Collector of the Kistna
District and the Board
of Revenue. They would
postpone extension of
Irrigation

Mk
J. D. L.

P. W. Sept 1873. 10th 11th
Proc. of Govt for No 1478

From
the Chief Engineer for
Irrigation
to the Secretary
to Govt. No 1478

Batch of 3rd Jan 73
Recd 10th Jan 73

Note on the
drafts of the
Kistna Bill.

No 297

Oct 4th 1873 - 14th Feb 1873

13
Irrigation to Conservation
of land already irrigable;
and to meet their remarks,
it is desirable that reports
should be made of the
nature and extent of the
drainage improvements
decided on in December 1870,
how far such improvements
have been carried out in
the 2 years that have elapsed
since that date, and what
provision is made for
continuing them in the
ensuing season; a sketch
of the new works carried
out or commenced within
the same periods being
given for comparison.

In witness Whereof The Order is
given
3005

13
3005 of 18th December 1872
already passed with re-
ference to the drainage
crossing the line of the
Ellore Canal; will be
extended to embrace
the question of drainage
generally. And although,
as remarked by the
Chief Engineer for Irru-
gation, a rainfall of
8 inches in 24 hours
cannot be entirely dispa-
red of by such works as
are likely to be planned
and passed, such ex-
cessive fall does not
affect whole Districts;
and the more moderate
average fall generally
prevailing

prevalent may on the
whole be met by well
planned works. It is to
the exact consideration of
all the circumstances
fixing such average fall as
should be provided against
that the attention of the
Chief Engineer for Irrigation
will be required in in-
structing the Officers spe-
cially employed on the
duty in question.

G.M.W.

25

To The Ch. Engineer, Engrs.
" St. Engineer, Engrs.
" Rev. Secy.
" Board of Genl.

18/2/73

18/2/73

C. 808/146451

Govt. of 1873 Madras.

PUBLIC WORKS.

To the Chief Eng^r for
Irrigation

Dated

Recd.

Encl.

G. O. 14th Feb^y 1878

No. 276 @ 278

Visitra Delta - Passing
orders papers regarding
recent damages by
floods to works in
the Visitra District,
and the measures
to be adopted for
the drainage of
the Delta -