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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

11th February 1879, No. 90 I.

Irrigation.

Read the following papers:—

No. 34. Endorsement of the Acting Chief Engineer for Irrigation, dated Fort St. George, 4th February 1879, No. 29 I.

From the Acting Superintending Engineer, First Circle, to the Chief Engineer for Irrigation, dated Dowlaishvaram, 27th January 1879, No. 266 G.D.

In continuation of this office letter No. 2,673, dated 15th November 1878, printed in G.O., No. 994 I., of the 5th December 1878, I have the honor to forward herewith copy of a detailed report (No. 175 of 29th December 1878) received from the Supervisor in charge of the late Rajahmundry Division, together with copies of the three lists of tanks which accompanied it relative to the damages done by the cyclone of the 5th November and 6th December 1878.

From P. W. SOOBIAH, Supervisor in charge of Rajahmundry Division, to the Superintending Engineer, First Circle, dated Samulcottah, 29th December 1878, No. 175.

Referring to your docket No. 2,633, dated the 15th ultimo, and in continuation of my letter, No. C-41, dated 8th ultimo, I most respectfully beg to bring to your notice that the extraordinary rains of the 5th November and 6th December have damaged the following works:—

1. Road from Peddapuram to Jaggampet.—This road has been breached in several places in the 1st, 2nd, and 3rd miles, and the tunnel in the 3rd mile is much damaged and the traffic is now passing on with great difficulty. The rest of the road is in fair condition.

2. Road from Peddapuram to Rajahnagaram.—This road has been breached in 14th 15th, and 18th miles, and the gravel washed away in several places. The tunnel in the 18th mile was smashed into pieces. All the small breaches have been filled up, so that there would be no difficulty for wheel traffic and travellers.

3. Road from Balabhadrapuram to Korconda.—Breaches have occurred to this road in the 6th and 7th miles, and the gravel washed away in several places along the road. The wheel traffic cannot pass at all near Dontamur unless the deep breaches formed in the tank bund are closed.

4. Trunk Road within the limits of the Circle.—Several breaches have occurred between Rajahnagaram and Tuni, and the gravel washed off in almost every mile. But arrangements have been made to keep the road in proper order for the convenience of the 29th Regiment which passed through the trunk road.

5. Road from Kottapille to Jaggampet.—The first twelve miles of this road are in perfect order. Breaches have occurred in 12th and 13th miles. The breach in the 13th mile is of immense size, which should be particularly attended to. The extraordinary freshes that came down through Kottapille river washed away its banks up the Puttamamididoddy anicut and took its course across the Kottapille road leaving very little to pass down the Puttamamididoddy anicut. The course thus formed crossed the Kottapille road about 100 yards west of Puttamamididoddy anicut, where a small tunnel was swept off and the road was considerably damaged.

6. Road from Kottapille to Gokarum.—This road has been breached in three places in the 1st mile near the village Gokarum. The first of them is due to the insufficient waterway provided for the tunnel; and these breaches were filled in.

7. Road from Rajahmundry to Gokarum.—This road has most seriously been damaged of all the rest in this division. Large breaches have occurred in the 11th, 12th, 13th, 14th, 15th, 18th, and 19th miles, and the gravel washed off. Two tunnels, one in 12th and the other in the 18th

mile, were damaged. The wheel traffic further up of the 11th mile is stopped. It would be very impracticable for the wheel traffic unless the deep breaches are filled up and the ordinary ones be closed, which could be done if the unspent portion of the maintenance grant be allowed to this road.

8. EMBANKMENT ROAD FROM RAJAHMUNDRY TO PURUSHOTTAPATNAM.—No breaches have occurred to this road except the destruction of the tunnel across the Thorrigedda drain which was already reported in this office letter No. 153, dated 19th November last. The self-acting shutters of the sluice in question have been carried away by floods. Plan and estimate for constructing a new tunnel are under preparation and will shortly be sent in for sanction. The cut-waters of the tunnel across Jolla Calva facing the river have blown down, and all the shutters have been carried away by the freshes; an estimate for the same is also under preparation and will be sent in shortly.

9. TANKS.—I also beg to state that not less than 295 tanks have been damaged in the taluks as per margin owing to the cyclone of the 5th November and 6th December 1878. I have selected most of the important tanks and prepared estimates, for which, if early attention be not paid by the department in allotting funds, there will be immense loss both for Government and the ryots. Though the estimates for the most important tanks are nearly prepared, and some were countersigned by the Collector, I have deferred sending them up for your sanction and appropriation of funds owing to the low state of finances under "Irrigation" this year. I have, however, resolved to send in all the emergent estimates within a fortnight, fully expecting that you will be pleased to write to Government, as a special case, for an early allotment* of funds, so that all the tanks may be put in order before the next rainy season sets in. I beg to bring to your most favorable notice the importance and state of certain tanks in this division, namely.

131 Peddapuram Taluk.
125 Rajahmundry Taluk.
51 Parts of the Ramachandrapuram Taluk.

* Rupees 15,000.

10. TIMMARAZU TANK AT LINGAMPARRU.—This tank is one of the most important ones in this division, under which an extent of 2,900 acres is irrigated, yielding a sist of Rupees 12,201 a year. I have already reported in my letter No. 134, dated 23rd October last, stating that a large breach about 300 feet in length and 30 feet in depth has occurred to the bund of the Kokirigedda channel which supplies water to this tank. I have, in consultation with the Collector, framed an estimate for closing the same before the next rainy season commences. The western bund of the tank which lies on the Yelaiswaram side is much washed away by the waves and requires much strengthening. As the tank is brimful it is not possible now to frame an estimate until its contents subside. If the strengthening of the bund is not completed before the next rainy season sets in, the whole tank will be damaged.

11. KONATIVARI TANK AT GUMMALADODDY.—This tank is the second in this division, irrigating an extent of 112 acres, yielding a sist of Rupees 2,200. Two breaches of immense size have occurred by the cyclone and the masonry sluice swept off, leaving the tank almost empty. The bund of the tank is also much weakened.

12. VENKIAH TANK AT NANDAGADA.—This is also one of the most important tanks in the division, under which an extent of 549 acres is irrigated yielding a sist of Rupees 1,343. More than twenty breaches have occurred to this tank, and the bund was considerably destroyed. The two old masonry sluices for which repair estimates have been sanctioned this year were entirely swept off. I have designed fresh ones instead amounting to Rupees 950, and submitted for sanction an appropriation of funds with this office letter No. 174, dated 28th instant. Unless the Government be pleased to allot sufficient funds to bring the tank into proper condition, much loss will be entertained by the ryots as well as by Government.

13. KUNTA IYANNAH TANK AT BOORUGUPUDY.—No less than six breaches have occurred to this tank, and the embankment, which also forms portion of the Gokarum road, was seriously damaged by the deep breaches of immense size. The tank is also one of the important ones irrigating an extent of 417 acres with an assessment of Rupees 1,118. An estimate for closing the breaches of this tank is submitted for sanction and appropriation of funds with this office letter No. 173, dated 19th December 1878.

14. NALLA TANK AT RUNGAMPETA.—The masonry sluices of this tank were entirely destroyed and the bund weakened; several breaches have also occurred leaving the tank almost empty.

15. KODURIVARY TANK AT KOTARUM.—The wing wall of the calingulah of this tank was broken down; the bund of the tank requires strengthening; breaches have occurred.

16. It would be superfluous to dwell on the condition of each tank in detail. I beg, therefore, to conclude that every tank in this division has received damage little or more. I beg therefore to request the favor of your addressing the Government for an additional allotment* under "Irrigation," so that all these repairs may be completed before the rainy season sets in.

* Rupees 15,000.

17. AVENUES.—The cyclonic gales of the 5th November and that of the 6th December have eradicated no less than 300 large trees on the Great Northern Trunk road from Rajahnagaram to Tuni. Several flourishing young trees have also been destroyed with their fences on the other roads in this division.

No provision has been allowed under "maintenance of avenues" for expenditure in the remaining portion of the current official year in the statement accompanying your docket No. 27 G.D. of 15th instant. Unless the whole unexpended portion of the maintenance be allowed, it would be impossible to keep up the avenues in a satisfactory condition.

18. Under these circumstances I beg to request the favor of your kindly moving the Government to place additional funds* at our disposal under "Irrigation," and to grant at least the whole unspent balances of maintenance grants allowed for the roads in this division for expenditure during the remaining portion of the current official year, by which both the tanks and roads be kept up in a satisfactory way without loss to Government or inconvenience to the public.

* Rupees 15,000.

LIST of Tanks reported to have been breached owing to the Cyclone on the 5th November 1878 in the Rajahmundry Taluk, Godavari District, Rajahmundry Division.

	Names of Villages.	Names of Tanks.
1	Pharazallipeta	Rangasayee tank.
2	Gonagudem (East)	Oora tank. Kummaravany tank.
3	Valugubunda	Tamara tank. Oora tank. Koira Sunyasee tank. Sanepu Jagganra tank.
4	Naraindrapuram	Vissanna tank. Mutyalamma tank. Galikunta tank.
5	Burugapudy...	Kanty Iyyanna tank.
6	Gadala	Oora tank. Narasimudu tank. Rangasayee tank. Kottia tank. Nagappa do. Parantalu tank.
7	Kolamooroo	Vedulla tank. Goorappa tank.
8	Kapaneram	Kodurivary do.
9	Gokaveram	Yallanna do. Yerra do. Gurralavary tank. Naravary do. Mondetinary do. Bontavary do.
10	Koty	Patruny do. Karaghattu do.
11	Raghavapuram	Nara Yerakanna tank.
12	Jemboopatam	Balaramayya do. Oora do. Kothamrari do.
13	Nandrada	Adusumilli Venkayya tank.
14	Dosakayalapally	Jaggappa tank.
15	Pallakadiam	Mitha Bhanudu tank. Bocchuma do. Tammanna do.
16	Kanaveram	Kotha do. Patha do. Sangitavary do.
17	Atchutapuram	Razu do. Parantalu do. Papudu do.

LIST of Tanks reported to have been breached owing to the Cyclone on the 5th November 1878 in the Rajahmundry Taluk, Godavari District, Rajahmundry Division—*continued.*

	Names of Villages.	Names of Tanks.
18	Venkatrajapuram	Yavnakula Veeresa tank.
19	Gadulapalem	Isukapallinary do.
20	Kalanacherla	Kathana do. Kummaragotula Erra tank.
21	Raghunadharajapuram	Mekalanary tank. Khandy do.
22	Duppalapindy	Peeraya do. Velagalugandy tank. Vanamady do. Chanaty do. Rainaya do. Oora do.
23	Gummalladoddy	Konatinary do.
24	Bolleddupalem	Pedapatinary do. Varadhy do. Bonagirinary do. Ankula Veerappa tank.
25	Garagalammapalem...	Challanary do.
26	Sreerangapatam	Thammudu do. Koormanna do.
27	Tautikonda	Badireddinary do. Talla do. Bodduvany do. Soonkaranary do. Mooroomallanary do. Goluboinanary do. Reddi do.
28	Vooppalapadu	Gaddamnary do.
29	Narasapuram	Narasauna do. Gonindarazu do. Sankanary do.
30	Gadarada	Sombhoodoo do. Kithaya do. Nallamolunary do. Churlanary do. Chitti do. Jampana Narasarazu tank. Koonchenary do. Velicheti Venkayya do.
31	Mocnagala	Koormanna do. Naga Boochenna do.
32	Kanupooru	Moondrunary do. Oora do. Komatikoonta do. Achenary do.
33	Terumalayapalem	Ramarazu do. Lagannayakula do.
34	Garagalampalem	Mushimkoormidy.
35	Rajavaram	Appaya tank.
36	Vadurupaka...	Appanna do. Turpu do.
37	Nagampalli	Toopativary tank. Ramudu do.
38	Gopalapuram	Gadavallipotana tank. Kotha do.
39	Eticoyalapilly	Mutiyalavari do. Chundruvary do.
40	Kasavaram	Chinna and Pedda tank. Mulagadavari do.
41	Krustudupalem	Rozu do. Yerra do.

LIST of Tanks reported to have been breached owing to the Cyclone on the 5th November 1878 in the Rajahmundry Taluk, Godavari District, Rajahmundry Division—*continued.*

	Names of Villages.	Names of Tanks.
42	Kothapalli	Vadla Ramudu tank. Dasari Ramanah do. Rozu do. Ramasagaram do. Varadhy calva. Pedda Patrudi tank.
43	Mallampudy...	Kariyadlavari do. Oorah do. Bopanaya do. Yerrabunda do. Sarrazu do.
44	Bapanammapalem	Nalla do. Pedda do. Kolamanu do. Ghattuvari do.
45	Mukkinada	Kanchumartyvari tank. Endravari do. Mukkapativari do. Tammayi do. Oorah do. Kotha do. Yarakana do.

LIST of Tanks reported to have been breached owing to the Cyclone on the 5th November 1878 in the Peddapur Taluk, Godavari District, Rajahmundry Division.

	Names of Villages.	Names of Tanks.
1	Moorary	Pedda tank. Papanna tank. Yamigatalakoonta. Linganakoota. Nootula tank. Ankamvady tank. Perrazu tank.
2	Singarampalem	Papamma tank. Mangayya tank. Goobbalamma tank.
3	Doddigunta	Oora tank. Billagoyee tank.
4	Dontamooroo	Oora tank. Duppulapudivary tank. Sodasanivari tank. Reddy tank.
5	Balaveram	Poleramma tank. Ethula tank. Kancharabandu tank.

LIST of Tanks reported to have been breached owing to the Cyclone on the 5th November 1878 in the Peddapur Taluk, Godavari District, Rajahmundry Division—*continued*.

	Names of Villages.	Names of Tanks.
6	Marripudy	Razu tank. Gangabathum tank. Kotho tank. Kamsalinany tank. Polisettivary tank.
7	China Bramhadenam	Oora tank. Paidimarlamma tank. Zogirazu tank. Papaya tank. Gopaludu tank. Jaggamma tank.
8	Poda Rayaveram	Jaggarazu tank. Venkamma tank.
9	Soobhadrampett	Pedda tank.
10	Peddapuram	Razu tank.
11	Mallepally	Pamunary tank.
12	Anoor	Jaggamma tank. Komaty tank. Kotha tank. Sooraya do. Goommillagoyyeo.
13	Venkatapuram	Ithrada tank. Chendraya tank. Mallaya tank.
14	Rangampett	Nallacheruvoo. Papaya tank. Nagulagoota tank. Erra tank.
15	Singampally	Surnaya tank. Tirumalaya tank. Gollanari tank. Talla tank.
16	Virampallem	Pantacheruvoo.
17	Elakalaneu	Kadumula tank. Padmaya tank. Oora tank.
18	Atchintapuram	Oora do. Nookanna tank.
19	Vadisilairu	Balabhadrarazu tank. Kandina Papa tank. Jattigoyee. Thimmarazu tank. Perrazu tank. Vallepallinary tank, Papaya tank. Peraya do. Nallamolurary tank. Madhanuni tank. Gangadevikoonta. Potula Venkatramudu tank.
20	Thirapatirazapuram Vadisilairu Mootta.	Venkatramudu tank. Dandanary tank. Parimnary do.
21	Rangapuram	Kadumula do. Gazulagoyee. Venkatraju tank. Perrazu tank. Ramabhuddirazu tank.

LIST of Tanks reported to have been breached owing to the Cyclone on the 5th November 1878 in the Peddapur Taluk, Godavari District, Rajahmundry Division—*continued*.

	Names of Villages.	Names of Tanks.
22	Kapaveram	Oora tank. Karrinany tank. Oota tank. Vedulla tank. Yathamsettinary tank. Kondappa tank. Arinamnary tank. Voottivany tank. Vempalla do.
23	Mookumdaveram	Soinayabanda tank. Koinati tank. Vaizurusuvary tank.
24	Nalliamilly	Oora tank. Venkaya tank. Razu tank. Rajauna tank.
25	Tirapatirazapuram Moorary Motta..	Lingampallinary tank. Goondoonary tank.
1½	Mallepilly	Narasarazu tank. Potulanary do. Oora tank. Narayana tank. Varadhy channel. Nalla tank. Nandulakoonta. Polisetty tank. Necchgundola tank. Chintalagunda do.
26	Kogida	Bungaru tank.
27	Gopaulpuram	Gudi tank.
28	Kondapalli	Oorah tank. Jannikamma tank. Narayana tank. Patha tank. Mundala tank.
29	Valtimmapuram	Pangidi do. Razu tank. Butchenma tank. Tammaya do. Juggamma do. Bhagirathi do.
30	Kotapaudu	Pedda tank. Nagula do. Bugga do.
31	Shotriaroyaram	Damachelara tank. Patha tank.
32	Gundepalli	Razu do. Aunkamvari tank. Chinna tank. Gurappa do. Kamamma tank. Venkatrazu do.
¾	Doddigunta	Komati tank. Munalaya tank. Vadlavani do.
33	Royabhoopulapatam	Ragamma do.
34	Kattipoody	Venkandora tank.

LIST of Tanks reported to have been breached owing to the Cyclone of the 5th November 1878 in the Ramachandrapuram Taluq, Godavari District.

	Names of Villages.	Names of Tanks.
1	Biccavole	Lingala tank. Pungidy do. Sattivady tank.
2	Vamulapilly...	Kasanavady tank. Chinathummudu tank. Mussulla tank. Tuvvibanda tank. Gosungivadi do.
3	Madapaud	Nakkavani do. Atchutaramudu tank. Marla tank. Nanchari tank. Seetaramudu tank. Kotha tank. Chakalavani tank. Tallammabunda. Pedaramudu tank. Jangambunda tank. Venkatapati tank. Karanumoary do. Chintala tank. Oorah do.
4	Vattapalem	Nakkalabunda tank. Venkatapatirazu do. Oorah tank. Jogi do. Anugulavany tank.
5	Balabhadrapuram	Kadumula tank. Javadi tank. Balintarali tank. Sooraparazu do. Ramarazu do. Konatidoruvi tank. Kummari tank. Mungali do.

27th December 1878.

(Signed) P. W. SOOBIAH,
Supervisor in charge, Rajahmundry Division.

(Signed) B. H. YOUNG,
Asst. to Supg. Engr., First Circle,
for Ag. Supg. Engineer.

SUBMITTED for the information of Government.

2. In the budget for the last three months of the year lately sanctioned, a sum of Rupees 4,550 has been provided for the repair of irrigation works in the Rajahmundry Division, and it is hoped that it will be possible shortly to make a further grant from the reserve at the disposal of the Chief Engineer for Irrigation.

(Signed) J. O. HASTED, Lt.-Col., R.E.,
Ag. Chief Engineer for Irrigation.

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. 35. ORDER THEREON, 11th February 1879, No. 90 I.

ORDERED to be recorded.

(True Extract.)

Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, First Circle.
" Chief Engineer for Irrigation.
" Revenue Department.

Exd. E. C. Shunker.
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Revenue

Mis.

IRRIGATION.

Calcutta, the [illegible]

PUBLIC WORKS.

To

The SUPERINTENDING ENGINEER,
FIRST CIRCLE,
&c., &c., &c.

Dated February 11th.

Received the 17th March

C. O. No. 130, Dated 1879, No. 90 T.

FEBRUARY.

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Irrigation Works in the Bombay Presidency, Central Division—Report relative to the damage done thereto by the Cyclone of the 5th November and 6th December 1877, forwarded.

No. 1087

Communicated to the Board of Revenue

No 1087

Revenue Department No. 1087 dated 17th March 1879