

(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.	3256	(2)	Press
B.P. No.			Mis.
Dated	1-12		1876

Not to be folded or roughly handled

No 51 Read the following letter from T D HARRIS, Esq, District Engineer, Ganjam, to Major-General G W. WALKER, R E, Secretary to Government, Public Works Department, dated Chatterpore, 15th November 1876, No 82 —

In continuation of my letter, No C-1, dated 19th October 1876, I have the honor to submit a report on the damages done to Irrigation works and communication in the district by the heavy rain and floods in the last month

Damages to Irrigation Works, Goomsoor Mahanuddy River, right embankment in the Aska limits — One slip occurred in the outer slope of the embankment a little south of the Bullipadra road nearly opposite to the Aska Factory which is 5 yards in length. A breach 47 yards in length occurred opposite to the town of Aska cutting up the soil about $1\frac{1}{2}$ yards in depth below ground level

In Patasumo limits one slip in the outer slope of embankment occurred which is 5 yards in length. In Koper Nangam limits, one slip of 5 yards in length occurred at the wing of the Koper Nangam sluice and the soil below the flow of the sluice is cut up to about 1 yard in depth, and another slip of 15 yards slope in length has occurred in the inner slope of the embankment, this is owing to the ground at the foot of the embankment being deep, and water accumulates there

In Royapilly limits a large breach of 45 yards in length has occurred in the embankment, cutting up the ground in rear to about $1\frac{1}{2}$ yards in depth

In Noovapilly limits a deep hollow was made by the action of water in rear of a sluice 3 yards in depth

In Recepur limits three slips have occurred in the embankment at different places, one 57 yards in length, the other 80 yards, and the third 22 yards. A portion of the embankment for 120 yards is so weak and low by the water flowing and cutting it up, this should be raised and as well as widened

Left embankment — In Allipui limits two slips in the embankment and two breaches have occurred, the slips are 7 yards and 3 yards in length each. One of the two breaches is 70 yards in length, and has cut up the soil below ground level to an extent of $1\frac{1}{2}$ yards in depth, and the other breach is 21 yards in length, this can be called a breach but a settlement in the embankment which occurred just as the floods were decreasing. The settlement has occurred in such a way that the top of the embankment is almost level with the ground. The place where this breach has occurred is the same one where the embankment breached and repaired last year. The cause of this settlement or breach occurring is on account of a very deep pond, or rather the soil has been cut up by the last year's breaching, and where water always stands to close this, it would take an enormous amount of money.

In Koratholy limits two breaches have occurred, the former occurred just near the Koratholy sluice which is 100 yards, and cutting up the soil to a depth of 4 yards below ground level, and the action of water has carried off one-half of the retaining wall, and the latter breach is 80 yards in length, and has cut up the soil below ground level to 2 yards in depth, besides these two breaches a slip of 28 yards in length has also occurred

In Potoio limits a breach of 12 yards in length has occurred just at the end of the left embankment

CHICACOLE

- 1 Chinnapuram calingulah breached near the revetment 18×9×3 yards
- 2 Ditto Naidoo Chervoo breached in three places as follows — one 40×6×2½ yards, the second 20×6×2½ yards, and the third 45×6×2½ yards
- 3 Marakabuttay of Deegasee breached in three places, one 18×12×3 yards, the second 10×6×2 yards, and the third 12×6×2 yards
- 4 Gallavalsa channel breached near Burala Calava by 12×8×3 yards
- 5 Yaboju tank of Wadada, bund breached for 811 running yards and from 1 to 3 yards depth, earthwork over the three masonry sluices washed away
- 6 Pedda Chervoo of ditto breached for 350 Rg yards from 1 to 3 yards in depth
- 7 Venkala Rajoo Chervoo of Ayadala Valsa, the bund all along damaged and breached in one place, and the two feeders of this tank have been silted up
- 8 Pedda Chervoo of Doisy, bund washed away for 1,000 running yards, and caused two breaches in the remaining portion of the bund
- 9 Saruvabuttay of Kalwaram breached by 60×5×1 yard
- 10 Gungalavary tank of ditto, the bund all along seriously damaged, and two breaches formed
- 10 Aqueduct of ditto, the aqueduct at this place also is very much injured
- 12 Wooden aqueduct of Ponam fallen down at one end
- 13 Wooratank of Cylada, the bund injured for about 500 to 600 yards running, and from 1 to 3 yards in breadth and 1 yard in depth
- 14 Symhadry tank of ditto, breached by 30×6 yards
- 15 Golyee tank of ditto by 12×3 yards
- 16 Boratamrady tank of ditto by 20×3 yards
- 17 Wadada head sluice silted 2 feet above the head sluice flow. No water flowing
- 18 Dorsee head sluice silted very much No water flowing

KIMEDY SUB-DIVISION

- | | | |
|----|--------------------------------------|----------|
| 1 | Labana Nulla tank, | breached |
| 2 | Buzzee tank of Singapur, | do. |
| 3 | Canapala tank of Gunandee, | do |
| 4 | Dooratank of Vedalajidi, | do |
| 5 | Raye tank of Vedalajidi, | do |
| 6 | Rauzce tank of Cavasavada, | do. |
| 7 | Samnapaghay of Tunbore, | do. |
| 8 | Jaluna tank of Danupuram, | do |
| 9 | Mamemjee tank of Vemgolmada, | do |
| 10 | Nayoodoocara of do, | do |
| 11 | Embankment of do, | do. |
| 12 | Maniadepulli Gedda, | do |
| 13 | Latchmupuram tank, | do |
| 14 | Bezzowgedda calingulah of Sitapuram, | do |
| 15 | Pedda tank of Tagne, | do |
| 16 | Advi tank of Vadinaralsa, | do. |
| 17 | Kisnasagaram of Coomkodupetta, | do. |

KIMEDY SUB-DIVISION—(Continued)

- | | | |
|----|--|-----------|
| 18 | Gajapatisagaram of Saivacottah, | breached |
| 19 | Rungasagam channel of do, | do. |
| 20 | Buttisinpuram anicut, | damaged |
| 21 | Anicut channel of Bagadipuram, | breached. |
| 22 | Gopalasagaram of Gopaulpore, | do |
| 23 | Coomasagaram of Budre, | do |
| 24 | Cotta tank of do, | do |
| 25 | Veerasaganam tank of Budre, | do |
| 26 | Zoji Naidoo tank of do, | do |
| 27 | Doorajee tank, | do |
| 28 | Geddiatenny tank of Tungace, | do |
| 29 | Gajapatisagaram tank of Bowanapur, | do |
| 30 | Neelacaulapatrumy tank of Chapara, | do |
| 31 | Curanam tank of Bagadala, | do |
| 32 | Venku Naidoo tank of Padula, | do |
| 33 | Zogi Naidoo tank of do, | do |
| 34 | Cuiara Doora tank of do, | do |
| 35 | Sanabunda tank of Urli, | do |
| 36 | Baupunna tank of do, | do |
| 37 | Puna of Jopinadapore, | do |
| 38 | Eura tank of Sanapilly, | do |
| 39 | Deviltapoonoo of do, | do |
| 40 | Vura tank of Sakarapuram, | do |
| 41 | Vooratank of Sandaradu, | do |
| 42 | Latchnusagaram of Gopily, | do |
| 43 | Cotton tank, | do. |
| 44 | Bundararum tank of Ulla, | do |
| 45 | Pedda Naidoo tank of Jalakalurgoopooram, | do |
| 46 | Yeriabunda tank of do, | do |
| 47 | Tiejadi tank of do, | do |
| 48 | Pedda tank of Malapetta, | do |
| 49 | Chintala tank of Chintalapore, | do |
| 50 | Padla tank of Rappapuram, | do. |
| 51 | Kudarayaram of Ramipooram, | do |
| 52 | Bongam tank of Pedda Hanasa, | do. |
| 53 | Geddalavam tank of Gooloodoor Talagam village, | do. |
| 54 | Yeru tank of Teddani, | do |
| 55 | Bodia tank of do, | do |
| 56 | Dannasagaram of Teddani and 6 villages, | do |
| 57 | Vellabaradoopuram of Nevagam, | do |
| 58 | Tadiman tank of Kemjam, | do. |
| 59 | Guddlavani tank of Varanasi, | do |
| 60 | Naidoo tank of Pedapadmapooram, | do. |
| 61 | Chinnanilapooram tank, | do. |

KIMEDY SUB-DIVISION—(Continued)

62	Coodaba tank,	breached
63	Masulapuram tank,	do
64	Puttupuram tank,	do
65	Dagalapolow tank,	do
66	Colooragedda of Addulnugy,	do
67	Pedda tank of Bidalapuram,	do
68	Coonnama tank of Naradi,	do
69	Bagadi tank of Chinna Sonapully,	do

GOOMSOOR SUB-DIVISION

Damages to Roads

Bellipadra road between the newly sanctioned bridge across the Vusthya Nala and the Mahanuddy river has very severely suffered
Kurcholly road between the 14th and 27th miles has seriously suffered

BERHAMPORE

Trunk road, some damage occurred, Barwa Port road breached in five places

PARLA KIMEDY SUB-DIVISION

Damages to Local Roads

- 1 Road from Calinjapatam to Parla Kimedy
via Narasannapetta and Sarvacotta, breached
- 2 Road from Alikam to Buttili, do
- 3 Road from Addulungy on Varanasi road,
to Addulungy on Palecondah road, do
- 4 Do from Poondy to Varanasy via Parla
Kimedy, do
- 5 Do from Nowpada to Parla Kimedy via
Malapetta, do

Estate Roads.

- 1 Palem road to temple, breached.
- 2 Goormah road, do.
- 3 Garalunda Goppili road, do.
- 4 Puttuporam road, do.
- 5 Kenudy and Kurchilingy road, do.
- 6 Condoma and Bonsava road, do.

From the above statement it will be seen that the damage done in the Parla Kimedy Estate especially to the irrigation works is very serious, and I beg to recommend the transfer to the estate of an Assistant Engineer as approved in G O, No 2,346, dated 2nd September 1876; till these important works are put into proper working order, it will be the cheapest and safest plan in the end
The destruction of the Chicacole bridge will form the subject of a separate report with illustrations

No 52

ORDER THEREON, 1st December 1876, No 3,256

IRRIGATION, No 7

RECORDED, and communicated to the
Revenue Department, with reference to
paragraph 2 of G O, 2nd September last,
No 2,346

2 The District Engineer's description of damage sustained by river embankments would be more intelligible were the mileage of these instead of the village limits referred to.

(True Extract.)

Major-General, R E,
Secretary to Government.

To the District Engineer, Ganjam
" Revenue Department
" Chief Engineer for Irrigation

Exd E C. Shunker
Spare Copies

No. 82

Chunnam
District Engineer's Office.

GANJAM. 15th Nov^r

⑦ 1876.

FROM

THE DISTRICT ENGINEER,

GANJAM.

TO

THE Secretary to Government
P.W. Department
Madras

SIR,

Enclosure.

In continuation of my letter
N^o 21 dated 19th October 1876,
I have the honor to submit a report
on the damages done to Irrigation
works & Communication in the District
by the heavy rain & floods in the
last month.

Damages to Irrigation works & Communication
Mahamuduly River Embankment. In
the Aska puzo. One ship occurred
in the antelope of the embankment
a little south of the Pullipadri
Road nearly opposite to the Aska
Factory which is 5 yards in length. At
each.

A breach 47 yards in length occurred opposite the town of Oshka cutting up the soil about $1\frac{1}{2}$ yards in depth below ground level.

In Patasamu limits - one slip in the outer slope of embankment occurred which is 5 yards in length. In Kope Kungam limits, 1 slip of 5 yards in length occurred at the wing of the Kope Kungam place and the soil below the floor of the place is cut up to about one yard in depth & another slip of 15 yards slope in length has occurred, in the inner slope of the embankment, this is owing to the ground at the foot of the embankment being deep & water accumulates there.

In Puyapill limits - A large breach of 45 yards in length has occurred in the embankment, cutting up the ground in places to about

$4\frac{1}{2}$

$1\frac{1}{2}$ yards in depth. (9)
In choorapilly limits - a deep hollow was made by the action of water in fear of a place 3 yards in depth.

In Poopur limits - three slips have occurred in the embankment at different places; one 57 yards in length, the other 80 yards & the third 22 yards. A portion of the embankment for 120 yards is so weak & low by the water flowing & cutting it up - this should be raised & as well as widened.

Left Embankment - In Allyp limits - Two slips in the embankment & 2 breaches have occurred, the slips are 7 yards and 3 yards in length each - One of the two breaches is 70 yards in length and has cut up the soil below ground level to an extent of $1\frac{1}{2}$ yards in depth and the other

other breach is 21 yards in length. This cannot well be called a breach but a settlement in the embankment which occurred just as the floods were decreasing. The settlement has occurred in such a way that the top of the embankment is almost level with the ground. The place where this breach has occurred, is the same one where the embankment breached & repaired last year. The cause of this settlement or breach occurring is on account of a very deep pond or rather the soil has been cut up by the last year's breaching and where water always stands to close this, it would take an enormous amount of money.

In Khatoli limits - Two breaches have occurred, the former occurred just

(11)
just near the Khatoli sluice which is 100 yards and cutting up the soil to a depth of 4 yards below ground level, and the action of water has carried off one half of the retaining wall & the latter breach is 80 yards in length and has cut up the soil below ground level to 2 yards in depth, besides these two breaches a slip of 28 yards in length has also occurred.

In Potoli limits - a breach of 12 yards in length has occurred just at the end of the left embankment.

Chicaole

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- 2 Atti Chindas Cherror - breached in 3 places as follows, one $40 \times 6 \times 2 \frac{1}{3}$ yards the second $20 \times 6 \times 2 \frac{1}{3}$ yards & the third $45 \times 6 \times 2 \frac{1}{3}$ yards
- 3 Marakabuttay of Dargasee - breached in 3 places, one $18 \times 12 \times 3 \frac{1}{2}$ ft, the 2 $10 \times 6 \times 2 \frac{1}{2}$ ft & the third $12 \times 6 \times 2 \frac{1}{2}$ ft

- 4 Jallavala Channel. breached near Burala Calava by $12 \times 8 \times 3$ ft
- 5 Gabogi tank of Madada. Bund breached for 811 Cysd and from 1 to 3 yards depth. Earthwork on the 3 masonry sluices washed away
- 6 Pedda Chevra of dts. breached for 350 Cysd from 1 to 3 yards in depth
- 7 Venkatarayan Chevra of Agadavala. the bund all long damaged and breached in one place & the 2 feeders of this tank have been silted up
- 8 Pedda Chevra of Doray. bund washed away for 1000 Cysd & caused 2 breaches in the remaining portion of the bund
- 9 Samratitton of Kalavaram. breached by $60 \times 5 \times 1$ yards
- 10 Jungalawany tank of dts. the bund all along seriously damaged and 2 breaches formed.
- 11 Aqueduct of dts. the aqueduct at this place also is very much

injured

- 12 Wooden Aqueduct of Ponnai fallen down at one end.
- 13 Kooran tank of Aglada. the bund injured for about 5 to 600 yards run and from 1 to 3 yards in breadth to 1 yard in depth
- 14 Synhadry tank of dts. Breached by 30×6 yards
- 15 Goljee tank of dts by 12×3 ft
- 16 Boratamrady tank of dts by 20×3 yards
- 17 Madada head sluice silted 2 feet above the head sluice flow no water flowing.
- 18 Avreel head sluice. silted very much no water flowing.

- Penny Sub Division
- 1 Labana stalla tank breached
 - 2 Buzze tank of Singapur do
 - 3 Canapala tank of Gunandee do
 - 4 Dora tank of Pedalajer do

5. Karye tank of Medalapet breached
6. Kuzgetank of Carasavada do
7. Samapaghoze of Zumbre do
8. Jahmatank of Semupinam do
9. Manumjee tank of Pungolmado do
10. Kaayorda cara of do do
11. Umbantment of do do
12. Mamadejulli gedda do
13. Lateimpinam tank do
14. Bezongedda Calugula of
Bilapuram do
15. Gedda tank of Jagme do
16. Advi tank of Vadinarsha do
17. Krimasaganam of Cornkodupetta do
18. Gayapatisaganam of Saravatta do
19. Krimasaganam channel of do do
20. Buttisimpinam Ciment damaged
21. Ciment Channel of Bagadi-
pinam breached
22. Kopalesaganam of Sopalpur do
23. Cormasaganam of Bunde do
24. Cotta tank of do do

- (15)
25. Kerasaganam tank of do - breached
 26. Gope Kandas tank of do do
 27. Dorajee tank do
 28. Siddipatnam tank of Tungace do
 29. Gayapatisaganam tank
of Bavanapur do
 30. Keelacaulatnam tank
of Chapana do
 31. Ciranam tank of
Bagadala do
 32. Ventee Kandas tank of
Paduli do
 33. Gope Kandas tank of do - do
 34. Citar a Dorra tank of do - do
 35. Sanabunda tank of do - do
 36. Nanpurna tank of do - do
 37. Purna of Purnadapur - do
 38. Purna tank of Sanapully do
 39. Devittapuram of do do
 40. Purna tank of Sakrapuram - do

- 41 Vona tank of Sundaradu - breache
- 42 Latchmisagarum of Sipily - do
- 43 Cotton Tank — do
- 44 Brundarum tank of Ulda - do
- 45 Pedda et ando tank of } do
Jalabakungopuram }
- 46 Genabunda tank of do - do
- 47 Teyadu tank of do do
- 48 Pedda tank of Malafetta - do
- 49 Chuntata tank of Chunta
- 50 Lapse — do
Pedda tank of Nappuram do
- 51 Kudaragarum of Ramipuram do
52. Pongam tank of Pedda
Chansa — do
- 53 Geddalarani tank of
Goolodon Talajam village do
- 54 Jern tank of Teddam - do
- 55 Bodra tank of do - do
- 56 Damvasagarum of Teddam
& 6 villages — do
- 57 Vellabarandopuram of Devagam - do

- (17) 6
- 58 Tadunan tank of Kenjam - breache
- 59 Juddalarum do of Varanasi - do
- 60 et ando tank of Pedapadma } do
puram }
- 61 Chumasilapuram tank — do
- 62 Cordaba tank do
- 63 Inasilapuram do — do
- 64 Putturam do — do
- 65 Sagalapalam do — do
- 66 Choragedda of Adubuff - do
- 67 Pedda tank of Bidalapuram - do
- 68 Cormam tank of Chandi - do
- 69 Bagade tank of Chumi } do
Simpally }

Damages to Roads
General Sub Division
Ballipadra Road between the
newly sanctioned Bridge across
the Visthya Kala & the Mahamud
River has very severely suffered.
Kincholly Road between the 14 &

& 27 miles have seriously suffered.
Berhampur

Trunk Road - Some damage occurred

Barwa Post Road - breached in
5 places

Parla Kennedy Sub Div

Damage to Local Roads

- 1 Road from Caluyapattam to
Parla Kennedy via Narasimhapetta
and Saracotta - breached
 - 2 Road from Alkann to Butti
breached
 - 3 Road from Oddubungu on
Venanasi road to Oddubungu
on Palenda road - do
 - 4 do from Porndy to Venanasi
via Parla Kennedy - do
 - 5 do from Kempada to
Parla Kennedy via Malapetta - do
- Estate Roads

- 1 Palen road to Temple - breached
- 2 Gornah road - do

- 2008/10/15/197
- 3 Garabunda of Ppuli road - breached
 - 4 Pullupordan Road - do
 - 5 Kennedy & Kunchulungu - do
 - 6 Condoma & Bonara road - do

From the above statement
it will be seen that the damage
done in the Parla Kennedy Estate
especially the irrigation works is
very serious and they to recommend
the transfer of the Estate, of an
Assistant Engineer as approved in
G.O. No 2346 dated 2nd September 1976
till these important works are put
into proper working order, it will be the
cheapest & safest plan in the end.
The destruction of the Pucacole
Bridge will form the subject of a
separate report with illustrations.

I have the honor to be
Your Most Obedient Servant

P. K. Sanyal
District Engineer Ganyam

20-9-76 No 2346.
 " 19-9-76 " 2577 & 2578.
 " 6-10-76 " 34.
 " 30-10-76 " 2910.

P.W.D.
 24 NOV 76
 No. 3524

From
 The District Engineer
 GANJAM.
 To

The Secretary to Govt.
 No 82
 Dated 15th Nov 1876.
 Dispatched
 Received

Enclosure.

I submit a report
 on the Damagadare,
 to irrigation works,
 and communication
 in the District of the
 heavy rain & floods
 which occurred at
 Bhatpur, 1876.

No 57

No 3256
 Public Works Department.
 PROCEEDINGS of the MADRAS GOVERNMENT

UNDER date the 1 Dec 76
 Read the following. —

From the District Engineer (H.E. No 82 of 15 Nov 76)

Recorded and commu-
 -nicated to the Revenue De-
 partment, with reference to para
 2 of GO 2^d September last
 No 2346.
 2. The District Engineer's
 description of damage sustained
 by river embankments would
 be more intelligible, were the
 mileage of these, instead of the
 village limits, referred to.

To Sanjam
 Revenue Dept. 21
 Ch. R. for Irrig. 5

W. W. 25/11
 W. W.

24-12-76

Clk 8526.

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PUBLIC WORKS.

The 10 L. Ganjan

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Encl

G. O. J. Recd. No. 3258

Nos 51-52

Damages to Irrigation works
and communications by
floods in October/76.

Ganjan. D. - Report on

the ———— incurred into
accidents & coming to the
the one Rep. of.

Recd. No. 3258