

Proceedings of the Madras Government, Public Works Department,  
1st November 1875

No 26. Read the following letter from Major H SMALLEY, R.E., Officiating District Engineer, Ganjam, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Chatterpore, 5th October 1875, No 30—

I HAVE the honor to submit a preliminary report of damages done to the Communications, Irrigation Works, and Buildings in this district by heavy rain and river floods between the 14th and 20th ultimo—

|                                   | In    | Cents |
|-----------------------------------|-------|-------|
| Rainfall registered at Berhampore | 14th  | 2 70  |
|                                   | 15th  | 0 95  |
|                                   | 16th  | 3 55  |
|                                   | 17th  | 3 80  |
|                                   | 18th  | 1 60  |
|                                   | 19th  | 0 10  |
|                                   | Total | 12 70 |

Rainfall at Russelcondah, 17th Between 6 and 11 P.M., said to have been about 5½ inches

Rainfall registered at Chicacole between 15th and 18th 10 inches 65 cents, of which 3.50 inches from 6 A.M. 17th, to 6 A.M. 18th

Rainfall at Kimeri from 17th 6 A.M., to 17th 6 P.M. 7.70 inches

River freshes—On the 18th there were 20 feet water in the Mahanuddy and 11 feet in the Rooskoolah at Aska

Godahaddi at Injeli—Register not received, but known to have overtopped the head sluice of the anicut

The Langoolah at Chicacole came down suddenly on the night of 17th, and there were 13 feet above zero in it on the 18th

Vamshadara at Heermandalam—Register not received, but believed to have been considerably higher than in 1872.

Mahendra Tanaya at 47th and 63rd miles Trunk Road—Not reported, but believed to have been higher than in any previous year known in Kimeri Estate, nine feet on the crest of the anicut at Butiscripooran

Lahuda river at Itchapore—Within 3 feet of the soffit of the bridge on the Trunk Road

DAMAGES TO IRRIGATION WORKS

Gummr

The Mahanuddy river embankments at Aska both left and right sides were overtopped and breached in several places. Old sluice at Kooper, a nowgam washed away, one immense sheet of water was thereby formed down to the junction of the Mahanuddy and Rooskoolah rivers

The tributaries of the Mahanuddy near Russelcondah—the Bodanor and Loharakundi—were also breached, and the lands of several villages covered with sand in the Pailpada Moota

Berhampore

By the Godahaddi floods, a tributary of the Rooskoolah, the head sluice parapets at Injeli anicut was overtopped and the channel below breached.

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By the Bahuda river floods in the Itchapore Khandam, the channels leading therefrom were nearly all breached. The following tanks were also breached —

Pulta

Kukudakandi

Many others not reported

*Chicacole*

By the Vamshadara and Langoolia floods —

- 1 Sagarapugedda near Nowry banks overtopped and breached on both sides of the sluice
- 2 Ampole Napati tank breached Byree Desa Gedda breached in three places
- 3 Nagamecatamen Desi Gedda overtopped and breached in ten places, and fields below under water for three or four days
- 4 Polaki Desi Gedda embankment breached
- 5 Lookalam channel embankment washed away for fifty yards
- 6 Makivala calingulah, Syregam calingulah, and embankments damaged
- 7 Chennapore calingulah damaged
- 8 Andavaiam calingulah, seven shutters carried away
- 9 Peddapadu Nandigadi tank breached in two places
- 10 Peddapadu Oora tank breached in four places
- 11 Singapore Alli tank breached in one place.
- 12 Oomaravally channel dam injured.
13. Gathavalsa Padda tank bank overtopped by 1 foot 6 inches and breached in fifteen places, and calingulah damaged

*Komedi Sub-division*

- 1 Kristnasagaram tank bank breached and calingulah injured
- 2 Battisneepooram anicut channel below breached in four places
- 3 Temboore Soonepaghayi tank breached
- 4 Coomoo Sarnapilli tank do
- 5 Saravakota Gajapati Sagarum do
- 6 Codada Panasa tank do
- 7 Rangasagaram channel do.
- 8 Uldoo tank do
- 9 Rathasagarum tank do
- 10 Labara Nala do

*DAMAGES TO ROADS*

*Gumsur Sub-division*

Gopaulpore and Kalingia Road, 2½ miles near Aska under water and impassable from the 18th, several breaches near Aska Hand-rails and parapets of bridge over Tipsur nala at Aska washed away Many miles of broken stone and gravel washed entirely off the surface

All the other Roads have likewise suffered in the same way, parts having been under water for from two to four days

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*Berhampore*

Trunk Road overtopped for about 300 yards in the 15th and for 130 yards in 6th mile between Berhampore and Chetterpore

Between Chetterpore and Ganjam the road was under water from 6 feet to 8 feet for three miles from the Rooskoolia, on the 19th and 20th traffic stopped Gravel entirely washed away throughout and broken stone partly.

Between Bengal frontier and Rumbah 800 yards overtopped in the 8th, 150 yards in the 7th, and gravel washed away.

Between Ganjam and Hoomma about two miles were under water.

South of Berhampore — Gravel was washed away in the 2nd mile; from the 17th to 19th mile was 4 feet under water on the 18th September

The branch road at Ganjam to the Custom-house was under water for the greater part of its length

Loop-line at Berhampore by burial-ground gravel washed away.

Gopaulpore and Kalingia road — Gravel washed away in 5th mile near Gopaulpore third mile near Berhampore, gravel washed away for 200 yards and broken stone partly.

9th mile — 70 yards of gravel and broken stone washed away and generally damaged.

|        |     |    |     |     |     |     |
|--------|-----|----|-----|-----|-----|-----|
| 10th „ | 25  | do | do. | do  | do. | do. |
| 12th „ | 200 | do | do  | do  | do  | do  |
| 15th „ | 237 | do | do  | do. | do  | do  |

16th to 24th mile gravel and metal washed away in places Approaches of bridge at Injeh breached both sides

*Chicacole*

Trunk road — Between 25th and 49th mile seriously damaged as detailed below —

31st mile under 4 feet of water three days

32nd mile damaged considerably, breached, and gravel and broken stone washed away

39th mile breached in latter portion, and gravel partly washed away.

45th mile breached, and gravel partly washed away

47th and 48th miles breached, and gravel and broken stone washed away

49th mile — Three enormous breaches occurred, country inundated on both sides of the road, traffic stopped for some days

16th mile gravel partly washed away

17th „ do do.

21st „ do do

23rd „ gravel entirely washed away.

25th „ breached.

26th „ breached in places, and gravel and broken stone washed away

27th „ do. do. do do.

28th „ do. do. do do

29th „ do do do do

30th „ do do do do.

Road to Poondy seriously breached in three places in the 25th mile, 300 feet, 240 feet and 168 feet in length respectively, and from 6 feet to 7 feet in depth

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Road from Nowpada to Temboire seriously damaged

*Kimedi Sub-Division*

Local Fund Roads—

*Kimedi to Varanasi*, 16th mile breached by Vamshadara

*Kimedi to Baguradipooram* seriously breached in 43rd and 45th miles and impassable for traffic

*Kimedi to Calingapatam*—Seriously breached in 17th and 18th miles, and approaches of Mahendra Tanaya bridge damaged

*Kimedi to Poondy*—Damaged

*Estate Roads*

*Kimedi and Kinchilingi* road mostly washed away between Palicota and Oopalada

*Gusadi* road—Two large breaches impassable

*Puttipooram* road greatly damaged, broken stone and gravel mostly washed away, and many old masonry works of stone-in-clay so seriously damaged as not to be worth repairing

*Nowtala* road breached, *Rajah's Palace* road under water for three miles, and gravel washed away.

*Kursandi* road slightly damaged

It is said that no such floods have been known at Aska within the memory of man. They were considerably higher than those of 1872, and even than those of 1866. In the Chicacole range there is no record of such floods at this time of year.

The Executive Engineer attributes the breaches made in the Trunk Road between the 25th and 49th mile to the bad order in which the Zemindari tanks are kept by the respective Zemindars, and to their consequent bursting in anything like heavy rain. A copy of his report has been sent to the Collector, and he will doubtless take steps to recover the cost of repairs from the Zemindars concerned.

It will be a very considerable time before all the damage done can be made good. Orders have been issued to all subordinates not to wait for orders, but to repair damages as quickly as possible, submitting emergent estimates hereafter. Emergent estimates for repairs to roads in the Gumsur sub-division alone amount to Rupees 5,095 as far as received.

|                                     |      |    |       |
|-------------------------------------|------|----|-------|
| P S.—Rain registered at Chetterpore | 14th | In | Cents |
|                                     | 15th | 9  | 0     |
|                                     | 16th | 5  | 20    |
|                                     | 17th | 4  | 40    |
|                                     | 18th | 3  | 85    |
|                                     | 19th | 2  | 25    |
|                                     |      | 0  | 60    |
|                                     |      | 25 | 30    |

No 27

ORDER THEREON, 1st November 1875, No. 3,099

ESTABLISHMENT, No 6.

THE HONORABLE the Governor in Council has read with much concern the account contained in the foregoing report of the damage occasioned by the floods in Ganjam, due to the heavy rainfall of September

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2 The District Engineer has doubtless already made arrangements for the execution of the more emergent repairs required, and it will be necessary thereafter to ascertain how far similar damage can be prevented in the future.

(True Extract)

Major-General, R.E.,  
Secretary to Government.

To the District Engineer, Ganjam  
„ Chief Engineer for Irrigation

Exd W J Lewis  
Spare Copies

No. 30

District Engineer's Office.

GANJAM. *Chatterpin*  
5<sup>th</sup> October 1876.

FROM

THE DISTRICT ENGINEER,

GANJAM.

TO:

THE

Secretary to

Government. P.O.

Fort St George.

SIR,

Enclosure.

I have the honor to  
submit a preliminary report  
of damage done to the Commu-  
nication & irrigation works  
located in the District by heavy rain and  
river flood between the 14<sup>th</sup>  
and 20<sup>th</sup> October.

|                                    |                  |       |
|------------------------------------|------------------|-------|
| Rain fall registered at Berhampore | 14 <sup>th</sup> | 2.70  |
|                                    | 15 <sup>th</sup> | 1.90  |
|                                    | 16 <sup>th</sup> | 3.55  |
|                                    | 17 <sup>th</sup> | 3.80  |
|                                    | 18 <sup>th</sup> | 1.60  |
|                                    | 19 <sup>th</sup> | 1.10  |
| Total                              |                  | 12.50 |

Rani fall at Rupil<sup>17<sup>th</sup></sup> between  
- coulda } said to have  
been about  
5<sup>1</sup>/<sub>2</sub>"

Rani fall, registered  
at Chinnole between 10.65  
18<sup>th</sup> and 18<sup>th</sup> } of which

3.50 feet  
from 6 a.m. 17<sup>th</sup>  
to 6 a.m. 18<sup>th</sup>

Rani fall at Chinnole  
from 17. 6 a.m. to 17<sup>th</sup> } 7.70"  
6 p.m. —

River Sp. res. on the 18<sup>th</sup>  
There were 20' water in the maha-  
- maddy and 11' in the Rooskoolia  
at Chinnole.

Codahaddi at Sujeli 3 registers  
not received but known to have over-  
topped the head of the  
river.

The Rangooia at Chinnole  
Came down suddenly on the  
night of 17<sup>th</sup> and there were 13'  
above there in it on the 18<sup>th</sup>.

Cinnahada at Peirainadalam,  
registers not received but believed to  
have been considerably higher than in  
1872.

Machendra, Tangaya at 4<sup>th</sup>  
+ 63' miles from Road. It  
not reported but believed to have  
been higher than in any previous  
year known in Peirai Estate.  
9. on the crest of the mountain  
at Butternipooram.

Bahuda River at Itchiapore  
Within 3' of the soffit of the bridge  
on the Truck Road.

Damages to Irrigation works  
Gunnore. The Mahanaddi  
River embankments at Chinnole  
both left and right sides were  
overtopped and breached in several  
places. Old sluice at 1200 ft a  
drougum washed away one  
intense sheet of water was  
thereby formed down to the  
junction of the Mahanaddi  
and Rooskoolia rivers.

The tributaries of the maha-  
-naddi near Rupilkonda the  
Bodam.

1 Dodo noi and Lo harakundi  
were also breached and the  
lands of several villages covered  
with water with the Pailpada  
Moota.

Berhanipore: By the Goda  
-Raddi floods a tributary of  
the Rookkotea the river bank  
was overtopped and the channel  
below breached.

By the Bahuda River floods  
in the Itchapoor & Chaudan  
the channels leading there  
from were nearly all breached.

The following tanks were  
also breached.

Pulla  
Pukhilaikundi  
many others not reported

Chicacole - By the Vamsa  
-dara and Langoola floods

1 Tagaraugedda near Dore  
banks overtopped and breached  
on

on both sides the river.

2 Anipole & Apater Tank breached  
Byre & Gadda breached in  
3 places.

3 Tagaricatanu & Gadda  
overtopped and breached in 10 places  
and fields below under water  
for 3 or 4 days.

4 Olaki & Gadda Embankment  
breached.

5 Rookalam Channel Embankment  
washed away for  
50 yards

6 Makwalsa Cahingulab & Gire  
-gan Cahingulab and Embankment  
damaged.

7 Chennapore Cahingulab damaged

8 Budavarani Cahingulab. Seven  
shutters carried away.

9 Padda padu & Pandigadi Tank  
breached in 2 places.

10 Padda padu & Gadda Tank breached  
in 4 places.

11 Suresipore & Gadda Tank breached  
in one place

Domaravalli Channel Dam  
injured.

Pathavala Pedda Tank - bank  
over topped by 1' 6" and breached in  
15 places and calingula damaged

Kinneri Sub Division.

1 Krista Sagarani Tank bank  
breached and calingula injured

2 Batturepooram tank  
Channel below breached in  
4 places.

3 Kumbore Poonepaghaji Tank breached

4 Coonoo Samapilli Tank breached

5 Sarvakota Gajapati Sagarani D: D:

6 Kodada Panasa Tank D:

7 Rangasagarani Channel D:

8 Aldoo Tank ——— D:

9 Pathasagarani Tank ——— D:

10 Habara Chala ——— D:

Damages to Roads

Guntoor Sub Division

Gopalpore and Kalingia Road.  
2 1/2 miles near Aska under  
water

water and along  
several breaches near Aska  
and rails and parapets of bridge  
over Siphir Kala at Aska wash.  
red away. Many miles of broken  
stone and gravel washed entirely  
off the surface.

Like the other roads, same like.  
were tipped in the same way  
parts having been under water  
for from 2 to 4 days.

Berhampore.

Tank Road - over topped for  
about 300 yards in the 15<sup>th</sup> and for  
130 yards in the 16<sup>th</sup> between  
Berhampore and Chatterpore.

Between Chatterpore and  
Ganjani the road was under water  
from 6 to 8 for 3 miles from the  
Roorhooia - on the 19<sup>th</sup> and 20<sup>th</sup>  
water stopped - Gravel  
entirely washed away through  
out and broken stone parts  
Between Berhampore and  
and Rumba - 800 yds over topped

in the 8<sup>th</sup> 100 yds in the 7<sup>th</sup> and  
or a inch washed away.

Between Ganjam and Hoonuma  
about 2 miles were under water.

South of Birkampur. Gravel  
was washed away in the 2 mile  
from the 17<sup>th</sup> to 19<sup>th</sup> mile was 4  
under water in the 18<sup>th</sup> September.

The Branch Road at Ganjam  
to the Cuttack River was under  
water for the greater part of  
its length.

Loop line at Birkampur -  
Burial Ground - gravel washed  
away.

Gopalpur and Radhigra Road -  
Gravel washed away in 5<sup>th</sup> mile  
near Gopalpur. 3 mile near  
Birkampur gravel washed  
away for 200 yards and broken  
stone partly.

9<sup>th</sup> mile 70 yds of gravel and  
broken stone washed away  
and generally damaged.

10<sup>th</sup> mile - 25 yds.  
12<sup>th</sup> " " 200 " }  
15<sup>th</sup> " " 237 " }

Between Birkampur and Hoonuma

Approaches of bridge at Ejeli  
breached both sides.

## Cheracole

Trunk Road - Between 25<sup>th</sup> and  
49<sup>th</sup> mile seriously damaged as detailed  
below

34<sup>th</sup> mile under 4<sup>th</sup> of water 3 days  
32<sup>nd</sup> - " " damaged considerably  
breached and gravel and broken  
stone washed away.

39 mile - breaches in latter portion  
and gravel partly washed away

45<sup>th</sup> - breached and gravel partly  
washed away.

47<sup>th</sup> and 48<sup>th</sup> miles - breached and  
gravel and broken stone washed  
away.

49<sup>th</sup> mile. 3 enormous breaches  
occurred, country inundated  
on both sides of the road.  
traffic stopped for four days

16<sup>th</sup> mile } Gravel partly washed  
17<sup>th</sup> " } away.  
21<sup>st</sup> " }

23<sup>rd</sup> " Gravel entirely washed away

25<sup>th</sup> - breached.

26 mile-  
 27 " } breached in places and  
 28 " } gravel and broken  
 29 " } stone washed away.  
 30 " }

Road to Poondy. seriously breach-  
 ed in 3 places in the 25 mile  
 300, 240 and 168 in length respec-  
 tively and from 6' to 7' in depth.

Road from Nioopada to Tenbne  
 seriously damaged.

Kinney Sub Division

Local Fund Roads.

Kinney to Varanasi. 16 mile  
 breached by Vanshadara.

Kinney to Bageradi pooram. Serious  
 breaches in 43 and 45 miles  
 and impassable for traffic.

Kinney to Chalingapatam. seriously  
 breached in 17 and 18 miles and  
 approach of Mahendrad  
 Tanaya bridge damaged.

Kinney to Poondy - damaged.

Estate Roads

Kinney and Kinkiliger Road.  
 mostly washed away between  
 Calicota and opalada.

Gusadi Road. 2 large breaches  
 impassable.

Pettipooram Road. greatly  
 damaged - broken stone and  
 gravel mostly washed away  
 and many old masonry works  
 of stone and clay so seriously  
 damaged as not to be worth  
 repairing.

Nocotata Road. breached.

Raja's Palace Road. under water  
 for 3 miles and gravel washed  
 away.

Kinney Road. slightly damaged.

It is said that no thick  
 floods have been known at  
 Chika within the memory of  
 man. They were considerably  
 higher than those of 1872 and  
 even than those of 1866.

Enriquez

H. J.

No 3099 Subhindslept  
Proceedings of the Madras Government  
Under date the 1<sup>st</sup> Nov/75  
Read the following:-

From

The District Engineer  
Canjann

CH.8 No 30 dated 5 Oct/75

The Honorable  
the Governor in Council  
has read with much  
concern the account  
contained in the fore-  
going report, of the  
damage occasioned by  
the floods in Canjann,  
due to the heavy rainfall  
of September.

2 The District  
Engineer has doubtless  
already made arrange-  
ments for the execution  
of the more urgent  
repairs

1827/1828/75-1831/75

From W. 1895 Delph.  
The District Engineer

To

The Secretary to

Government

No 30

21772

Dated 5

Dispatched

Received

Enclosure

Oct 1875

G.O. No 3099. 1. 11. 75

Can 28-10-75  
1827/1828/75-1831/75

It is to be a preliminary  
report of a survey  
done to the Government  
lands, which are in the  
District Engineer's  
by the Survey  
of the District

repairs required, and  
it will be necessary  
thereafter to ascertain  
how far similar damage  
can be prevented in the  
future.

May 25/10  
C. H. M.

J. E. Simpson  
of New York  
Sept - 17 - 11 - 75  
Ed. W. Smith

6611

Colt. of 1875 Madrid.

PUBLIC WORKS.

To  
D. E. Ganjam

3

Dist 3

Dist 3

1 2

Dist

G. O. 10<sup>th</sup> Nov 1875, No 3493.

For 26-27

Floods. Passing orders  
in letter from the D.E.  
Ganjam reporting damages  
done to Public Works by  
the heavy — of September.