3. Initials of R...

M.R.O. 1—89,000—16-10-29.

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons 24.11.37

G.O. No. 2173 Press Mis.

1646 5

Dated 24—11— 19 37

Not to be folded or roughly handled

Fort Saint George, Public Works Consultation of 24th November 1857.

No. 164. Read the following Extract from the Proceedings of the Chief Engineer dated 16th November 1857, No. 5234.

Read the following letter from Lieutenant A. S. MOBERLY, District Engineer of Chingleput; to Colonel C. E. FABER, Chief Engineer, dated Camp Guindy 9th November 1857, No. 1307.

SIR,

I have the honor to inform you, that much damage has been done to the works in this District, by the heavy rains in the end of last month, a great number of tanks have been breached, but none I am happy to say of the large and important tanks the Southern Trunk road (No. 8) has I hear, been much damaged; the water having gone over it in several places, and where in former years 2 or 3 feet depth of water was the usual quantity, and where the late Captain Best had placed Road dams, there were I hear from 5 to 7 feet of water, and the Mail was in consequence delayed. I am now about to proceed to examine this road, and will then be able to send a more full report from the accompanying copy of a letter &c., from Assistant Supervisor W. A. Goodchap, you will observe that the Casavaram Annicut and Bungaroo Channel have been injured, and on this I will report further after inspection.

2. In the end of last week, I inspected the Caratoor Annicut, and found the Southern Wing wall cracked from the top to the bottom, part of the loose stone apron carried away; the loose stone apron in rear of the Head sluice partly carried away, and a large hole in rear there are some cracks right through the parapet walls, and almost down to the piers, but the arches are all right there is a large breach of about 40 yards in the north bank, and the Villagers informed me, that if this breach had not occured, the Village of Caratoor would have been submerged, as the water was rising fast, and just coming into the Village the fresh appears to have been much higher than it ever was before known, and as it might have been higher if the bank of the Bangaroo channel near the Casaveram Annicut had not burst and also as it is proposed to widen the Bungaroo channel, I have desired Lieutenant Hankin to prepare an estimate for a Calingulah to be placed where the present Breach is.

From W. A. GOODCHAP, Assistant Supervisor of Chingleput District; to Colonel C. E. FABER, Chief Engineer dated Camp Red Hills, 6th November 1857, No. 184.

SIR,

I have the honor to forward you a report on the Casavaram Annicut works, and regret much that so great a damage should have occurred to the masonry works and bank, after the time it took and difficulties we had to contend with, in bringing them to completion.

I beg to state, that I think it will be necessary to pile the Bungaroo channel bank on the North face, as the berm that was there when the stone revetment was built, is entirely destroyed, the washway being so great.

3. The breach that has taken place in the Bungaroo channel bank, is in the same place as the breach that was made last year on which occasion I stated the Calingulah was not in a good position, being situated a good 100 yards too low, and the water flowing up the channel relieves itself by breaching the bank for about that length on the west side of Calingulah, a very good idea can be formed of the force of water, when 2 Groins 6 yards in length $2\frac{1}{4}$ yards in breadth $2\frac{1}{2}$ yards in height a bank 5 yards in breadth, with a slope of 1 in $1\frac{1}{2}$ revetted with large stones on the north face, and turf on the south was entirely washed away. It will be necessary, if a new Calingulah is not built, to lengthen the present one for about 30 yards.

4. A stone revetment on the West side of North wing wall to Annicut is necessary, and also one on the East and West side of wing wall to retaining wall to the head of the Bungaroo channel.

5. If the improvements pointed out meets with your approval, I will frame an estimate for them, together with the necessary repairs to the works caused by the late overflow of the Courteliar River.

Fort Saint George, Public Works Consultation of 24th November 1857.

A Repot on the Casaveram Annicut works.

The above works were damaged on the 27th of October 1857, by the overflow of the Courteliar river.

Annicut.

North wing wall, the earth is washed away from the sides and rear and stone revetment partly destroyed by the water rushing round the wing wall and forcing the stone revetment out.

No. 1 Sluice ; Stone apron in rear injured.

Front retaining wall above ; 20 yards broke away near No. 2 Sluice, 2 feet in height and a portion close to the above sluice entirely washed away.

No. 2 Sluice:—1 Upright stone broke and 2 forced out of their perpendicular position Flooring slightly injured, and stone apron in rear partly destroyed.

Head wall:—South Corner of head wall fell down in one solid block about 8 yards in length.

Retaining wall to Head of Channel.

The retaining wall is partly thrown out of its position and the earth is washed away from the sides and rear of wing wall, leaving it standing by itself.

Bungaroo Channel Bank.

Stone Revetment:—84 yards in length near the head wall of Annicut was undermined and the stone revetment slipped down 145 yards near the Calingulah is also undermined, and stong revetment washed down there is a breach between 60 and 70 yards in length near the West wine wall of Calingulah, and the 2 new Groins lately built are entirely destroyed.

Calingulah.

The West wing wall is entirely destroyed. The water rose as high as the wing walls to Annicut and in some places where the bank was not so high as the wing walls it washed over.

The natives states the river has not been so full for the last 20 years.

Camp Red Hills,
6th November 1857.

(Signed) W. A. GOODCHAP,
Assistant Supervisor Chingleput District.

(True Copies.)

(Signed) A. S. MOBERLY, Lieut.,
District Engineer of Chingleput.

Resolved that a copy of the foregoing letter No. 1307, dated 9th November 1857, from the District Engineer Chingleput with its enclosure reporting on the damages done to several works in the District during the recent heavy rains be forwarded for the information of Government.

(A true Extract.)

(Signed) C. E. FABER, Colonel,
Chief Engineer.

No. 165. ORDER THEREON, No. 2173; dated 24th November 1857.

Ordered that the foregoing Extract be recorded.

(Signed) H. FORBES,
Acting Secretary to Government.

No. 2234 of the year 1857.

Extract from the Proceedings of the Chief Engineer in the Department of P.W. Fort St. George

Under date the 16th Nov. 1857

Read the following

No. 1307

From

Lieutenant A. S. Moberly

District Engineer of Chingleput

To

Colonel C. E. Faber

Chief Engineer Dept. P.W.

Fort St. George

Sir

I have the honor to inform you, that much damage has been done to the works in this District by the heavy rains in the end of last month, a great number of Tanks have been breached, but none I am happy to say of the large and important Tanks. the Southern Trunk road (No. 8) has I hear been

been much damaged; the water
having gone over it in several places,
and where in former years 2 or 3 feet
depth of water was the usual quantity,
and where the late Captain Best
had placed Road dams, there
were I hear from 5 to 7 feet of water,
and the mail was in consequence
delayed — I am now about to proceed
to examine this Road, and will then
be able to send a more full report —
From the accompanying copy of a
letter &c.a from Asst. Supervisor
W. A Goodchap, you will observe
that the Casavaram Annicut and
Bungaroo Channel have been injured,
and on this I will report further
after inspection —

In the end of last
week, I inspected the Caratoor
Annicut, and found the Southern
Wing wall cracked from the top
to the Bottom, part of the loose
..... stone

stone apron carried away; the loose
stone apron in rear of the Head Sluice
partly carried away, and a large
hole in rear. there are some cracks
right through the parapet walls,
and almost down to the piers, but
the arches are all right there
is a large breach of about 50 yards
in the north bank, and the Villagers
informed me, that if this breach
had not occured, the Village of
Caratoor would have been submerged
as the water was rising fast, and
just coming into the Village — the
fresh appears to have been much
higher than it ever was before
known; and as it might have
been higher if the bank of the
Bungaroo Channel near the
Casaveram Annicut had not
burst and also as it is proposed
to widen the Bungaroo Channel,
I have desired Lieut.t Hankin
to

now

to prepare an Estimate for a Calingulah to be placed where the present Breach is.

Div.n Engineers Office
Camp Guindy
9th November 1857

(sigd) A. S. Moberly Lieut.
District Engineer of
Chingleput

To

Colonel C E Faber
Chief Engineer D. P. W.
Fort Saint George

Dated
No. 184

To

The District Engineer of Chengleput

Sir,

1 I have the honor to forward you a report on the Casavaram Annicut works, and regret much that so great a damage should have occurred to the masonry work and bank, after the time it took, and difficulties we had to contend with, in bringing them to completion

I

2 I beg to state, that I think it will be necessary to pile the Bungaroo channel Bank on the north face, as the berm that was there when the stone revetment was built, is entirely destroyed, the washway being so great

3 The Breach that has taken place in the Bungaroo channel Bank, is in the same place as the breach that was made last year on which occasion I stated the Calingulah was not in a good position, being situated a good 100 yards too low, and the water flowing up the Channel relieves itself by breaching the bank for about that length on the west side of Calingulah, a very good idea can be formed of the force of water, when 2 Grains 6 yards in length 2½ yards in breadth 2½ yards in height, a bank 5 yards in breadth, with a slope of 1 in 1½ revetted with large stones on the north face, and turf on the south was entirely washed away

It

now

It will be necessary, if a new Retaining wall is not built, to lay them the present one for about 30 yards

A stone revetment on the west side of the Sor the wing wall to Annicut is necessary and also one on the East and west sides of wing wall to Retaining wall to the Head of the Bungaroo Channel

5 If the improvement to point ed out meet to with your approval, I will frame an Estimate for them, together with the necessary repairs to the works caused by the late overflow of the Courtelliar River

Camp Red Hills } Sig^d W^m A. Goodchap
6^th Nov^r 1857 } A/S^t Supervisor of Chengleput Dist

A Repot on the Casaveram Annicut Works.—

The above works were damaged on the 27^th of October 1857 by the overflow of the Courtelliar River

Annicut

4

Annicut

North wing wall: the earth is washed away from the sides and rear and Stone revetment partly destroyed by the water rushing round the wing wall and forcing the stone revetment out

N^o 1 Sluice; Stone apron in rear injured.—

Front Retaining wall above:- 20 yards broke away near N^o 2 Sluice. 2 feet in height and a portion close to the above sluice entirely washed away.

N^o 2. Sluice:- 1 Upright stone broke and 2 forced out of their perpendicular position—

Flooring slightly injured, and stone Apron in rear partly destroyed.

Head wall:- South Corner of Head wall fell down in one solid block about 8 yards in length.

Retaining wall to Head of Channel:-

The Retaining wall is partly thrown out of

now

its position and the Earth is washed away from the sides and rear of wing wall, leaving it standing by itself.

Bungaroo Channel Bank

Stone Revetment:- 84 Yards in length near the Head wall of Annicut was undermined and the stone revetment slipped down 145 yards near the Caligulah is also undermined, and stone revetment washed down there is a breach between 60 and 70 yards in length near the west wing wall of Caligulah, and the 2 new Groins lately built are entirely destroyed

Caligulah.

The west wing wall is entirely destroyed The water rose as high as the wing walls to Annicut and in some places where the bank was not so high as the wing walls & washed over

Thermometer stands the River has not

not been so full for the last 20 years.

Camp Red Hills
6th November 1857

Sd/ W.A. Goodchap Asstt Engr
Chengulpatt District.

/True Copies/
Signed A.T. Moberly Lieut
District Engineer of Chengulpatt

Resolved that a Copy of the foregoing letter No 1307 dated 9th November 1857 from the District Engineer Chengulpatt with its enclosure reporting on the damages done to several works in the District during the recent heavy rains be forwarded for the information of Government

/A True Extract/
Signed/ L.C. Faber Colonel
Chief Engineer

To
The Secretary to Government
Public Works Department

&c.
Signed Smith

now

No. 5234.

Extract from the Proceedings of the Chief Engineer
in the Department of Public Works Fort Saint George
Under date the 16th November 1857

Read the following

No. 1307

From Lieutenant N. S. Maberly,
District Engineer of Chengleput,

To Colonel C. E. Baker,
Chief Engineer D.P.W.
Fort Saint George

Sir

I have the honor to inform you, that much damage has been done to the works in this District, by the heavy rains in the end of last month. a great number of Tanks have been breached, but none I am happy to say of the large and important Tanks - the Southern Trunk Road (No. 8) has, I hear, been much damaged, the water having gone over it in several places, and where in former years 2 or 3 feet depth of water was the usual quantity, and where the late Captain Dent had placed Road Dams, there were I hear from 6 to 7 feet of water, and the mail was in consequence delayed - I am now

Public Works Dept
Cons 24th Nov 1857
No. 2268

Extract from the Proceedings
of the Chief Engineer
To
The Secretary to Government
P.W.D.

Dated 16th Nov 1857
Recd 19th Nov 1857

To be forwarded
No. 2943
24th Nov 1857

10th Dec 1857

now about to proceed to examine this Road, and will then be able to send a more full report from the accompanying copy of a letter &c from Asst. Superviser W. A Goodchap, you will observe that the Cassaveram Annicut and Bungaroo Channel have been injured, and on this I will report as further after inspection.—

2 On the end of last month, I inspected the Caratoor Annicut, and found the Southern Wing wall cracked from the dept &c apron carried away, the loose stone from the Bottom, part of the loose stone in rear of the Head Sluice partly carried away, and a large hole in rear. there are some cracks right through the parapet walls, and almost down to the pivos, but the arches are all straight.— there is a large breach of about 40 yards in the north bank, and the Villagers informed me, that if this breach had not occured, the Village of Caratoor would have been submerged, as the water was rising fast, and just coming into the Village— the fresh appears to have been much higher than it ever was before known; and as it might have been higher if the bank of the Bungaroo Channel near the Cassaveram Annicut had not not burst, and also as it is proposed to widen the Bungaroo Channel, I have desired Lieut. Hankin to prepare an Estimate for a Calingulah to be placed where the present Breach is.—

I have the honor to be &c

Dist. Engineer's Office
Camp Laundy
9th November 1857.

Signed J. A. S. Mabenly Lieut.
District Engineer of Chengleput.

To Colonel C. C. Faber
Chief Engineer D.P.W.
Fort Saint George

No. 184

Sir,

The District Engineer of Chengleput.

Sir

1 I have the honor to forward you a report on the Cassaveram Annicut works, and regret much that so great a damage should have occured to the masonry works and bank, after the time it took, and difficulties we had to contend with, in bringing them to completion.—

2 I beg to state, that I think it will be necessary to pile the Bungaroo Channel Bank on the north face, as the berm that was there when the stone revetment was built, is entirely destroyed, the washway being so great.—

3 The breach that has taken place in the Bungaroo Channel Bank, is in the same place as the breach that was made last year, on

on which occasion I stated the Calingulah was not in a good position, being situated a good 100 yards too low, and the water flowing up the Channel relieves itself by breaching the bank for about that length on the west side of Calingulah— A very good idea can be formed of the force of water, when 2 Groins 6 yards in length, a bank 5 yards in breadth, with a slope of 1 in 1½ revetted with large stones on the north face, and turf on the south, was entirely washed away— It will be necessary, if a new Calingulah is not built, to lengthen the present one for about 30 yards.—

2½ yards in breadth
2½ yards in height

4. A stone revetment on the west side of North wing wall to Annicut is necessary and also one on the East and west sides of wing wall to Retaining wall to the Head of the Pungaroo Channels—

5 If the improvements pointed out meets with your approval, I will frame new Estimate for them, together with the necessary repairs to the works caused by the late overflow of the Courtallum River—

Camp Red Hills
6th November 1857

I have the honor to be &c—
(Signed) W. J. Goodchap
Asst. Superintending Engineer

A Report on the Casaveram Annicut—

The above works were damaged on the 2nd of October 1857, by the overflow of the Courtallum River—

Annicut

Annicut

North wing wall; the earth is washed away from the sides and rear, and Stone revetment partly destroyed by the water rushing round the wing wall, and forcing the stone revetment out—

No 1 Sluice; Stone apron in rear injured—

Front Retaining wall above;— 20 yards broke away near No 2 Sluice, 2 feet in height, and a portion close to the above sluice entirely washed away—

No 2 Sluice;— 1 upright stone broke, and 2 forced out of their perpendicular position— Flooring slightly injured, and stone Apron in rear partly destroyed—

Head wall;— South Corner of Head wall fell down in one solid block, about 8 yards in length—

Retaining wall to Head of Channel;— The Retaining wall is partly thrown out of its place and the Earth is washed away from the sides and rear of wing wall, leaving it standing by itself—

Pungaroo Channel Bunk

Stone Revetment;— 84 yards in length near the Head wall of Annicut, was undermined, and the stone revetment slipped down 1 to 5 yards near the Calingulah is also undermined, and stone revetment washed down, there is a breach between 60 and 70 yards in length near the west wing wall of Calingulah, and the 2 new Groins lately built are entirely destroyed—

Calingulah

The west wing wall is entirely destroyed—

The

The water rose as high as the wing walls to Annicut, and in some places where the banks was not so high as the wing walls, it washed over.—

The natives state the River has not been so full for the last 20 years.—

Camp Reed Hills
the November 1857

Signed / W. A. Goodchap Asst. Supt.
Chengleput District.

/ True Copies /

/ Signed / S. L. Moberly Lieut.
District Engineer of Chengleput.

Resolved, that a copy of the foregoing letter No. 130 dated 9th November 1857 from the District Engineer Chengleput, with its enclosure, on reporting on the damages done to several works on the District, during the recent heavy rains, be forwarded for the information of Government.—

/ A. True Extract /

W. Ed. Baker Colonel.
Chief Engineer

To

The Secretary to Government,
Public Works Department,

Read.

Public Works Department
Ens: 24th Nov. 57 No. 2268

Extract from the Proceedings
of the Chief Engineer
To
The Secretary to Government
P. W. D.

Dated 16th
Received 17th } November 1857

Ex Chief Eng. 27th Nov. 57 No. 6234 & 6236
Ex. 5234.

Communicates for information
a letter with its enclosures
from the District Engineer
Chengleput reporting on the
damages done to several
works in that District
during the recent heavy
rains.

Nos 164 & 165.

Jobs recorded
No. 2173
Fort St. George
24th Nov. 1857

C18 Nov. 23rd