

20-8-26-1514

Public Works (1896) Department.

G.O., No. 4012

DATED 7-5-96

[Despatch Abstract.]

Drainage crossing the Ellore Cauab: Not by the
Chief Engineer for Irrigation recommending the
proposals of the Executive Engineer, Godavari
Western Division for dealing with ~~the~~ and
advising as to the measures to be taken
for putting in order all Govt tanks affecting
the East Coast Railway, approved and
comd to the officers concerned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.

READ—the following papers :—

From W. C. DEMORGAN, Esq., Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, dated Bank Canal Central Delta, 25th March 1896, No. 2952 G.D.

With reference to paragraph 2 of G.O. No. 37 I., dated 15th January 1896, I have the honour to submit herewith copy of a report, with enclosures, received from the Executive Engineer, Gódávāri Western division, on certain points raised in the report on flood damages to East Coast Railway within the limits of Gódávāri Western division, embodied in the Government Order quoted above.

ENCLOSURES.

Copy of letter from the Executive Engineer, Godavari Western division, to the Superintending Engineer, I Circle, dated 13th March 1896, No. 433 S.

With reference to your No. 2520 G.D., dated 7th February 1896, on G.O. No. 37 I., dated 15th January 1896, I have the honour to report that the East Coast Railway affects the Góda-

vari-Ellore canal from mile stone $\frac{38}{0}$

2. The Watlur tank which is referred to by the Executive Engineer, No. 1 Division, East Coast Railway, which is in my charge, was breached owing to the Tammileru coming down with a discharge of at least 100,000 cubic feet per second. A considerable quantity of this water entered the Watlur tank and breaches were inevitable. This tank has been lately repaired, but the weir is not of sufficient length; nor in some parts is the bank, which is of very bad soil, of sufficient section. I have now ordered the weir to be lengthened to 500 feet and the bank to be made up throughout to 6 feet top breadth and to the same level throughout.

3. At 38/13 railway mileage, an additional waterway of 60 feet and at 39/5 of 200 feet is proposed by the Railway Engineer. I propose at 44 canal mileage which is opposite 40 railway mileage, an additional length of inlet and outlet each of 500 feet.

4. At 43/7 railway mileage, an additional waterway of 60 feet is proposed.

5. At 40/4 and at 36/3 canal mileage opposite to 43 and 47 railway mileage, respectively, I propose to cut down the canal banks (masonry works will probably be unnecessary) so as to allow for a 500 feet outlet and inlet at each place. The latter will relieve Bhimadole station.

6. I enclose lists of the railway-affecting tanks that breached and also a list of the tanks in the Tammileru basin and Gunderu basin that breached and affected the Tammileru and Gunderu, respectively.

List of tanks that breached on the 5th September 1895 in Gunderu basin, Ellore taluk, Gódvári Western division.

Name of village.	Name of tank.	Water partly secured.	Water wholly escaped.	Whether Government or private.
Kuchempudi ..	Repalli Kanniah ..	1	1	Government.
Do. ..	Lingana ..	1	1	Do.
Nayempalli ..	Pedda ..	1	1	Private.
Ramasingavaram ..	Burreskula or Khandrika *	1	1	Government.
Do. ..	Gangadevi ..	1	1	Do.
Vemulapalli ..	Devatula ..	1	1	Do.
Do. ..	Ravikunta ..	1	1	Do.
Do. ..	Bogal ..	1	1	Do.
Rangapuram ..	Modugula ..	1	1	Do.
Do. ..	Bapiah ..	1	1	Do.
Mallaraopalem ..	Swamula ..	1	1	Do.
Ramasingavaram ..	Gunla ..	1	1	Do.
Kuchempudi ..	Khandrika ..	1	1	Do.
Tadikalapudi ..	Subbiahkunta ..	1	1	Do.
Do. ..	Sitamma ..	1	1	Do.

* Breached long ago.

List of railway-affecting tanks breached in Tank sub-division in Ellore taluk, Gódvári Western division, on the 5th September 1895.

[Note.—For numbers of tanks see list forwarded with Executive Engineer, Western division, No. 97 S. of 8th May 1895.]
(Submitted to Chief Engineer for Irrigation with No. 402 G.D., dated 15th May 1895.)

Name of village.	No.	Name of tank.	Water partly secured.	Water wholly escaped.	Whether Government or private.	Point at which surplus crosses railway.
Kokkirapadu ..	1	Kotta ..	1	1	Private ..	29 35 One vent of 20 feet span.
Do. ..	2	Yerra ..	1	1	Do. ..	..
Vempadu ..	4	Gandi ..	1	1	Do. ..	..
Do. ..	5	Tamminidu ..	1	1	Do. ..	..
Do. ..	3	Bapigadi ..	1	1	Do. ..	30 60 Five spans of 20 feet each.
Do. ..	4	Gummadi ..	1	1	Do. ..	..
Bhagapuram ..	5	Pendalapadu ..	1	1	Do. ..	..
Do. ..	6	Jangamkunta ..	1	1	Do. ..	..
Vathur ..	7	Pedda ..	1	1	Government.	..
Ammapalem ..	9	Husanikhan ..	1	1	Private ..	..
Do. ..	10	Peddakadimi Komatti kunta.	1	1	Do. ..	..
Do. ..	11	Ravula ..	1	1	Do. ..	..
Pinakadimi ..	17	Kamaraju ..	1	1	Do. ..	..
Koppaka ..	18	Pedda ..	1	1	Do. ..	..
Do. ..	19	Chinna ..	1	1	Do. ..	..
Hunkunagudem ..	20	Viramma ..	1	1	Do. ..	..
Doggirala ..	24	Pedda ..	1	1	Do. ..	39 50 } One span of 10 feet.
Tangallamudi ..	2	Do. ..	1	1	Do. ..	40 41
Somavarrappadu ..	3	Satani ..	1	1	Do. ..	40 50
Tangallamudi ..	4	Nabi ..	1	1	Do. ..	..
Chodimala ..	7	Dondapadu ..	1	1	Do. ..	..
Somavarrappadu ..	9	Kotta ..	1	1	Do. ..	..
Vegavarum ..	14	Eagala ..	1	1	Do. ..	..
Do. ..	15	Devara ..	1	1	Do. ..	..
Uppugudem ..	17	Kotta ..	1	1	Do. ..	..
Chudimala ..	22	Rayudu ..	1	1	Do. ..	..
Pedavegi ..	29	Sitammagarikunta ..	1	1	Do. ..	..
Naguladevunipadu ..	43	Bapigadu ..	1	1	Do. ..	..
Dendulur ..	51	Ravula ..	1	1	Government.	..
Do. ..	53	Nandikunta ..	1	1	Do. ..	..
Do. ..	54	Kalavalskunta ..	1	1	Do. ..	..
Do. ..	1	Konati tank ..	1	1	Do. ..	42 60 Three spans of 12 feet each.
Do. ..	2	Ravula ..	1	1	Do. ..	..
Do. ..	3	Kotta ..	1	1	Do. ..	..
Sriramavaram ..	1	Godavari Kara ..	1	1	Do. ..	43 40 Two spans of 20 feet each.
Kantamavarigudem ..	2	Singana ..	1	1	Private ..	..
Do. ..	3	Pedda ..	1	1	Do. ..	..
Do. ..	4	Perantalu ..	1	1	Do. ..	..
Sriramavaram ..	1	Yerra ..	1	1	Government.	44 15 Three spans of 20 feet each.
Kantamavarigudem ..	2	Amlikhan ..	1	1	Private ..	..
Medinirapalem ..	3	Balaji ..	1	1	Do. ..	..
Sriramavaram ..	4	Gurrammakunta ..	1	1	Government.	..
Do. ..	5	Juvvikunta ..	1	1	Do. ..	..
Do. ..	6	Vinayakuni ..	1	1	Do. ..	..
Medinirapalem ..	7	Kurumidikunta ..	1	1	Private ..	..
Chellmayagudem ..	9	Lingasamudram ..	1	1	Do. ..	..

List of railway-affecting tanks breached in Tank sub-division in Ellore taluk, Gódvári Western division, on the 5th September 1895—cont.

Name of village.	No.	Name of tank.	Water partly secured.	Water wholly escaped.	Whether Government or private.	Point at which surplus crosses railway.
Muppavaram ..	1	Pedda ..	1	1	Government.	46 55 Two spans of 20 feet each.
Krottagudem ..	2	Pala ..	1	1	Do. ..	..
Do. ..	4	Kondiah ..	1	1	Do. ..	..
Do. ..	6	Bapiraju ..	1	1	Do. ..	..
Do. ..	7	Bogandani ..	1	1	Do. ..	..
Sriramavaram ..	8	Golivikunta ..	1	1	Do. ..	..
Do. ..	9	Reddivarikunta ..	1	1	Do. ..	..
Malakacherla ..	11	Kumallagundam ..	1	1	Private ..	..
Do. ..	14	Yellamma ..	1	1	Do. ..	..
Do. ..	19	Viranna ..	1	1	Do. ..	..
Do. ..	21	Dharmahas ..	1	1	Do. ..	..
Muppavaram ..	28	Kotta ..	1	1	Government.	..
Surappagudem ..	34	Reddipalli ..	1	1	Do. ..	..
Do. ..	35	Vadravani ..	1	1	Do. ..	..
Do. ..	36	Tammayakoneru ..	1	1	Private ..	..
Chintalapudi ..	40	Mamilla ..	1	1	Do. ..	..
Do. ..	41	Ravikayakara ..	1	1	Do. ..	..
Surappagudem ..	1	Kotta ..	1	1	Government.	47 50 Two spans of 12 feet each.
Bhimadola ..	1	Komati ..	1	1	Do. ..	48 35 Four spans of 20 feet each.
Do. ..	14	Nagisetikunta ..	1	1	Do. ..	..
Polasanapalli ..	15	Yerra ..	1	1	Private ..	..
Pangidigudem ..	36	Do. ..	1	1	Do. ..	..
Bhimadola ..	1	Ura ..	1	1	Government.	49 45 Four spans of 20 feet each.
Do. ..	2	Timmanna ..	1	1	Do. ..	..
Nagalapalli ..	7	Andamma ..	1	1	Private ..	..
Do. ..	20	P'dula ..	1	1	Do. ..	..
Bhimadola ..	22	Do. ..	1	1	Government.	..
Bhimadola ..	26	Pattisamikunta ..	1	1	Do. ..	..
Do. ..	27	Boddukunta ..	1	1	Do. ..	..
Do. ..	28	Kattakunta ..	1	1	Do. ..	..
Nagalapalli ..	31	Modugula ..	1	1	Private ..	..
Bhimadola ..	32	Prattinamikunta ..	1	1	Government.	..
Ambarupeta ..	33	Gollasamudram ..	1	1	Private ..	..
Do. ..	34	Upparavarikunta ..	1	1	Do. ..	..
Do. ..	1	Baray ..	1	1	Do. ..	51 35 One span of 20 feet.
Do. ..	5	Kanchara ..	1	1	Do. ..	..
Do. ..	7	Yerra ..	1	1	Do. ..	..
Sarabhapuram ..	9	Do. ..	1	1	Do. ..	..
Do. ..	10	Golladikunta ..	1	1	Do. ..	..
Pulla ..	1	Vanasamudram ..	1	1	Government.	53 5 Two spans of 20 feet each.
Dadavalli ..	3	Rajoykunta ..	1	1	Private ..	..
Do. ..	4	Kotta ..	1	1	Do. ..	..
Do. ..	5	Pedda ..	1	1	Do. ..	..
Pattayagudem ..	7	Nalla ..	1	1	Do. ..	..
Tirumalampalem ..	13	Kotta * ..	1	1	Government.	..
Tadikalapudi ..	17	Devara ..	1	1	Do. ..	..
Tirumalampalem ..	19	Lingasamudram ..	1	1	Do. ..	..
Do. ..	20	Dara ..	1	1	Do. ..	..
Do. ..	21	Manguvari ..	1	1	Do. ..	..
Do. ..	22	Narasappa ..	1	1	Do. ..	..
Ramannagudem ..	23	Devaravarikoneru ..	1	1	Private ..	..
Do. ..	24	Kotula ..	1	1	Government.	..
Tadikalapudi ..	28	Nagula * ..	1	1	Do. ..	..
Do. ..	29	Gandla ..	1	1	Do. ..	..
Do. ..	32	Ravula ..	1	1	Do. ..	..
Tirumalampalem ..	37	Regulavarikunta ..	1	1	Do. ..	..
Do. ..	38	Gollavarikunta ..	1	1	Do. ..	..
Narayanapuram ..	48	Koneru ..	1	1	Private ..	..
Gunnampalli ..	51	Udugulakunta ..	1	1	Government.	..
Do. ..	52	Manchinillakunta ..	1	1	Do. ..	..
Do. ..	53	Uppunillakunta ..	1	1	Do. ..	..
Kodurupadu ..	54	Tallagunnam ..	1	1	Do. ..	..
Duddepudi ..	55	Chitteyya ..	1	1	Private ..	..
Pulla ..	56	Danumayya † ..	1	1	Government.	..
Duddepudi ..	1	Mangalakara ..	1	1	Private ..	53 35 Two spans of 20 feet each.
Satiyala ..	2	Pedda ..	1	1	Do. ..	..
Gunnampalli ..	3	Lakshminarasimhapu-ram.	1	1	Government.	..
Akkupalli-Gokavaram ..	9	Nambiravari ..	1	1	Do. ..	..
Kyakaram ..	1	Nelapalavari ..	1	1	Do. ..	54 48 Four spans of 20 feet each.
Do. ..	2	Modugula ..	1	1	Do. ..	..
Akkupalli-Gokavaram ..	4	Pedda ..	1	1	Do. ..	..
Kyakaram ..	11	Tempullavarikottakara ..	1	1	Do. ..	55 33 One span of 12 feet.
Do. ..	12	Nandi Bhavani ..	1	1	Do. ..	..
Akkupalli-Gokavaram ..	13	Kotta ..	1	1	Private ..	..
Do. ..	16	Ura ..	1	1	Government.	..
Kyakaram ..	1	Kotta ..	1	1	Do. ..	56 55 Three spans of 20 feet each.
Do. ..	2	Pullenkayyakunta ..	1	1	Do. ..	..

* These two tanks breached long ago.

† The tank breached three years ago.

(Signed) J. E. PAUL,
Executive Engineer.

EXTRACT of Report of flood damages, Bezvada-Gódávri Section, East Coast Railway, printed with G.O. No 27 I., dated 15th January 1896.

From mile 30 to 31/18, the flood was over rail-level scouring the bank on the down stream side. At mile 30/17 the west abutment of a five 20-foot girder bridge was destroyed with 100 feet of the approach. This bridge takes the surplus water of the Watlur tank, which is 2 miles long by $\frac{1}{2}$ mile wide and is fed by a channel from the Tammileru river which crosses the Kistna canal. The Watlur tank breached and was completely emptied within a few hours. The spill water from the channel of the Tammileru continuing to flow through the tank and causing all the damage.

I would recommend the three 26-foot girder at mile 30/17 being increased to seven spans with training bunds to control the channel.

From mile 32 to 34/4 the flood was well over the rails in places as much as 2½ feet. At 32/16 there was a breach of 30 feet, where a 2-foot pipe was provided for irrigation purposes. This is a well-defined spill channel from the Watlur tank of its east end, and I would recommend at this point a three 12-foot girder bridge.

From 32/12 to 32/20 about two-thirds of the bank on the down stream side was scoured. From 32/22 to 33/17 and 33/21 to 33/24, the bank was completely washed away, the permanent way being swept down on to the berm. As this section of the line is completely intersected with drainage channels from the Watlur and other large tanks, I would recommend the banks being lowered and heavily pitched to pass abnormal floods. The water-ways provided on this length, viz., ten spans of 20-foot girders, have been found from experience to be ample in passing ordinary floods. A section showing the proposed lowering of the formation accompanies the report.

The main channel of the Tammileru river is crossed by the Railway at mile 34/14 and a branch at 37/8. The drainage area of the Tammileru is 530 square miles and the discharge was originally estimated at 33,400 cubic feet per second. To pass this flood discharge, the following bridges are provided:—

Fifteen spans of 20-foot girders already alluded to, ten spans of 40-foot girders across the two channels of the Tammileru, and seven spans of 20-foot girders at mile 38/13.

The canal sluice gates across the main channel of the Tammileru were closed during the flood, thereby the river overflowing both banks destroying the railway embankment between miles 33 and 34 and flooding the town of Ellore on account of the sluice gates being closed; the six spans of 40-foot girders provided by the railway across this channel practically gave no assistance. Similarly, the branch channel of the Tammileru which is crossed by the railway with four spans of 40-foot girders was also useless, as the sluice gates on the canal were closed and the flood was diverted down to the seven 20-foot girders at mile 38/13 destroying three piers and the west abutment.

From 38/15 to 39/15 there were a series of breaches, one of which was 800 feet length, the total length breached being 1,700 feet. The flood was above rail level from 38/20 to 39/15, and it is proposed to raise the bank on this length 2 feet and provide the following additional waterway:—

The seven spans of 20-foot girders at 38/13 to be increased to ten spans and a new bridge of ten spans of 20-foot girders provided at 39/5. Both the above bridges must be provided with spurs. From 42/21 to 45/7 there were a series of small breaches, the flood being above rail-level.

Between 43/7 to 43/9 there was a breach of 400 feet. It is proposed to provide a new bridge of three 20-foot girders, as this is the second time the line has been breached in this place. There were a series of small breaches from mile 43/14 to 43/19 and beyond this up to Bhimadole station (mile 49), no damage was done.

Owing to the insufficient cross drainage provided by the canal, the Bhimadole yard was 6 inches under water and was only relieved by the canal breaching.

The line was also submerged up to mile 50/7, owing to the banking up caused by insufficient cross drainage provided in the canal. I would recommend the raising of the line at this point as shown in the accompanying section.

From the 54th mile to 54/15, there were a series of small breaches; the flood having been one foot above rail-level, I would recommend the raising of the bank as shown in the accompanying section.

From mile 54 to Tadepalligudem station, mile 69, the slopes of the bank on the down stream side have been damaged owing to the want of turfing. All the bridges on this length must be provided with pucca floors and drop walls.

There is no damage done to the bridges and very little to the slopes of the embankment between Tadepalligudem and Nidadavole station; between Nidadavole station and the river the line has suffered no damage.

(Signed) B. BAXTER,
Ex. Engr., No. 1 Divn., East Coast Railway.

LIST of railway-affecting tanks breached in Tank sub-division in Yernagudem taluk, Gódávri Western division, on the 5th September 1895.

[NOTE.—For numbers of tanks see list forwarded with Executive Engineer's, Western division, No. 97 S. of 8th May 1895.]
(Submitted to Chief Engineer for Irrigation, with No. 402 G.E.D. of 15th May 1895.)

Name of village.	No.	Name of tank.	Water partly secured.	Water wholly escaped.	Whether Government or private.	Point at which surplus crosses railway.
Nallamadu ..	5	Pedda ..	1	..	Government ..	53 35 Two spans of 20 feet each.
Do. ..	7	Gamallakunta ..	1	..	Do. ..	..
Do. ..	8	Suddakunta ..	1	..	Do. ..	..
Do. ..	6	Bhimudu ..	1	..	Do. ..	54 70 One span of 12 feet.
Do. ..	7	Chitteru ..	1	..	Do. ..	..
Do. ..	8	Mogulla ..	1	..	Do. ..	55 33 Do.
Do. ..	9	Jalagavadupu ..	1	..	Do. ..	..
Do. ..	10	Akadevatala ..	1	..	Do. ..	..

LIST of tanks breached in Tammileru basin on 5th September 1895.

Name of village.	Name of tank.	Water partly secured.	Water wholly escaped.	Number of tank.	Name of group.	Private or Government.
Yerrampally ..	Ramireddi tank ..	1	..	1	Yedavalli group.	Government isolated.
Kalyanampadu ..	Ura tank ..	1	..	4	Do. ..	Do.
Serigagudem ..	Pedda or Ura tank ..	1	..	..	..	Private.
..	Baloori tank ..	1	..	..	..	Do.
Lingapalem ..	Seetamma tank ..	..	1	12	Bapirazu-gudem group.	Government.
Mathengudem ..	Gangulavani kunda ..	..	1	9	Do. ..	Do.
..	Ura tank ..	1	..	10	Do. ..	Do.
..	Surasamudram tank ..	1	..	11	Do. ..	Do.
Iyyaparajugudem ..	Talla tank ..	1	..	..	..	Private.
..	Turaca tank ..	1	..	..	..	Do.
..	Malia kunda ..	1	..	..	..	Do.
Bogole ..	Jagannayakula tank ..	1	..	..	..	Do.
..	Pedda tank ..	1	..	16	Bapirazu-gudem group.	Do.
..	Vengaramma tank ..	1	..	..	..	Do.
..	Narasimpudi kunda ..	1	..	..	..	Do.
..	Venkamma ..	1	..	..	..	Do.
..	Ura tank ..	..	1	..	..	Do.
..	Nayedu kunda ..	1	..	..	..	Do.
..	Idula ..	1	..	..	..	Do.
..	Ati kunda ..	1	..	..	..	Do.
..	Satagopaya kunda ..	1	..	..	..	Do.
Dharmajugudem ..	Mallasamudram ..	1	..	6	Bapirazu-gudem.	Government.
..	Yura tank ..	1	..	3	Do. ..	Do.
..	Regunta tank ..	1	..	2	Do. ..	Do.
..	Rachappa tank ..	1	..	3	Kondacherlu group.	Do.
..	Tummala ..	1	..	2	Do. ..	Private.
..	Rovair ..	1	..	..	..	Do.
Bapirajugudem ..	Vaddicatta ..	1	..	..	..	Do.
Nadipalli ..	Pattipotama tank ..	1	..	..	..	Do.
Rayadupalem ..	Jangamvari kunda ..	1	..	..	..	Do.
..	Bommaraju ..	1	..	..	..	Do.
..	Battala kunda ..	1	..	..	..	Do.
Kondalaraydupalem ..	Ura tank ..	1	..	..	..	Do.
..	Norelagandi ..	1	..	..	..	Do.
..	Pavanam tank ..	1	..	..	..	Do.
Vijayarayi ..	Savati tank ..	1	..	..	..	Do.
Janampeta ..	Koduri ..	1	..	..	..	Do.
..	Suraya kunda ..	1	..	..	..	Do.
Goganapalli ..	Gogulamma tank ..	1	..	..	..	Do.
Dondapadu ..	Dondapati tank ..	1	..	..	..	..
Chinnampeta ..	Mogalla ..	1	..	..	..	These tanks are in the Kistna district and it is not known in this office whether they are Government or private.
Párvatipuram ..	Mutyalamma tank ..	1	..	..	..	..
Polavaram ..	Pilli kunda ..	1	..	..	..	..
Somavaram ..	Silarigudem tank ..	1	..	..	..	..
..	Ura tank ..	1	..	..	..	..
Kottagudem ..	Marlapadu Kover ..	1	..	..	..	..
..	Balla tank ..	1	..	..	..	..
..	Battala ..	1	..	..	..	..

List of tanks breached in Tammilera basin on 5th September 1895—cont.

Name of village.	Name of tank.	Water partly secured.	Water wholly escaped.	Number of tank.	Name of group.	Private or Government.
Saripalli ..	Damerla tank ..	1	..	..	..	..
Janardanavaram ..	Ramada ..	1	..	..	..	..
..	Motal tank ..	1	..	..	..	..
Anegollupeta ..	Ramiahgari tank ..	1	..	..	..	..
..	Golla Yera ..	1	..	..	..	..
..	Rungiah ..	1	..	..	..	..
Kendaparra ..	Ura tank ..	1	..	..	..	..
..	Yerra ..	1	..	..	..	..
..	Janakattu ..	1	..	..	..	..
Chittapur ..	Yeguva tank ..	1	..	..	..	..
..	Gandi ..	1	..	..	..	..
..	Anakamvan tank ..	1	..	..	..	..
..	Kommara kunta ..	1	..	..	..	..
..	Bottala tank ..	1	..	..	..	..
Gollapudi ..	East side ..	1	..	..	..	..
..	Ura tank ..	1	..	..	..	..
..	Dharma ..	1	..	..	..	..
Chikapally ..	Jogiraju ..	1	..	..	..	..
..	Ura tank ..	1	..	..	..	..
..	Jugala ..	1	..	..	..	..
Ravanakapetta ..	Kotta ..	1	..	..	..	..
..	Dugerlanna tank ..	1	..	..	..	..
..	Battu kunta ..	1	..	..	..	..
..	Komati ..	1	..	..	..	..
Ankewarowvanigudem ..	Kotta tank ..	1	..	..	..	..
Chintalavalli ..	Kammara kunta ..	1	..	..	..	..
Gogulampada ..	Ura tank ..	1	..	..	..	..
Mesuniem ..	Nalla ..	1	..	..	..	..
..	Nagarla tank ..	1	..	..	..	..
..	Ravigunta ..	1	..	..	..	..
Valasapelli ..	Nalla tank ..	1	..	..	..	..
Yellapuram ..	Pottana tank ..	1	..	..	..	..
Gokavaram ..	Pedda ..	1	..	..	..	..
..	Iyyemma ..	1	..	..	..	..
..	Pedamala Pedda ..	1	..	..	..	..
Balini ..	Ramagundam ..	1	..	..	..	..
..	Idula tank ..	1	..	..	..	..
Velugucherla ..	Seshapala tank ..	1	..	..	..	..
..	Chilakasamadram ..	1	..	..	..	..
..	Ura tank ..	1	..	..	..	..
..	Chaviti tank ..	1	..	..	..	..
..	Togiruvani kunta ..	1	..	..	..	..
..	Kotta tank ..	1	..	..	..	..
Singavaram ..	Visaya kunta ..	1	..	..	..	..
Ramjarla ..	Kamara tank ..	1	..	..	..	..
..	Ura tank ..	1	..	..	..	..
Dagavalli ..	Nalla ..	1	..	..	..	..
Chatsye ..	Sangava tank ..	1	..	..	..	..
..	Dupa ..	1	..	..	..	..
..	Ura ..	1	..	..	..	..
..	Venkatadri kunta ..	1	..	..	..	..
Burugudem ..	Belli kunta ..	1	..	..	..	..
..	Subbanna tank ..	1	..	..	..	..
Tummgudem ..	Neeladri ..	1	..	..	..	..
..	Yerra ..	1	..	..	..	..
..	Chintala ..	1	..	..	..	..
..	Kotta ..	1	..	..	..	..
Dondapadu ..	Subbaiah kunta ..	1	..	..	..	..
Loopudi ..	Kotta tank ..	1	..	..	..	..
..	Venkatadri tank ..	1	..	..	..	..

These tanks are in the Kistna district and it is not known in this office whether they are Government or private.

No. 91 I.

Submitted to Government.

2. The proposal of the Executive Engineer, Gódávari Western division, for dealing with drainage crossing the Ellore canal in the Gódávari district may be approved. The Superintending Engineer, I Circle, should, in communication with the Collector, see that all Government tanks affecting the railway are put in order without delay. The question of repairing the private tanks has been dealt with in G.O. No. 501 W., dated 10th February 1896.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Chief Engineer for Irrigation.

23rd April 1896.

ORDER—No. 401 I., dated 7th May 1896.

Communicated to the officers concerned for information.

2. The proposals recommended by the Chief Engineer for Irrigation are approved.

(True Extract.)

Under Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, I Circle.

" Consulting Engineer for Railways.
" Chief Engineer for Irrigation.
" Revenue Department.

Exd. T. K. Narayana Aiyangar.
Spare Copies

IRRIGATION.

Gobt. of {1896} Madras.
PUBLIC WORKS.

Dated May, 7th.

Recd.

Encl.

G.O. No. 401 I., 7th May 1896.

MAY.

Drainage crossing the Ellore canal

Note by the Chief Engineer for Irrigation recommending the proposals of the Executive Engineer, Godavari Western division, for dealing with — and advising as to the measures to be taken for putting in order all Government tanks affecting the East Coast Railway, approved and communicated to the officers concerned.

no 401 Idy 7-May 1896.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

From the Superintending Engineer I Circle (H.E.No:2952 G.D.dated 25th March 1896)

No 91 Idy 23 4 56

1. Submitted to Government.
 2. The proposal of the Executive Engineer, Godavari Western Division for dealing with drainage crossing the Ellore canal in the Godavari district may be approved.
- The Superintending Engineer, First Circle, should in communication with the Collector see that all Government tanks affecting the railway are put in order without delay.
- The question of repairing the private tanks ^{has} ~~having~~ been dealt with in G.O.No:501 W dated 10th February 1896.

Order thereon

Communicated to the officers concerned for information.

2. The proposals recommended by the Chief Engineer for Irrigation are approved.

To,

- The Supg: Engineers I and II Circles
- " Consulting Engineer for Railways
- " Chief Engineer for Irrigation
- " Revenue Department

[Signature]

[Signature]
23/4

RECEIVED
23 MAY 96

Lts: 6

Deco: 24-44-96

Proposals for dealing
with drainage crossing
the Elore canal, Godavari
District.

No. 8553 of 23-10-95

- 9339 - 5-11-95

- 379 - 15-1-96

- 2853 - 24-3-96

Issue
Rues

List of Tanks that breached on the 5th
September 1895 in Gundur basin Elore Taluk
Godavari Western Division.

3

Name of village	Name of tank	Water partly secured	Water wholly escaped	Whether Government or Private
Huchampudi	Repulla Kammiah	1	-	Government
- do -	Lingana	-	1	Government
Nayampalli	Bedda	1	-	Private
Kamasinga	Surrenkula or			
- varan	Khandriika *	1		Government
- do -	Gangadevi	1	-	do
Vemulapalli	Devahita	1		do
- do -	Karikunta	1		do
Vemulapalli	Bogal	1		do
Kangapuram	Modugula	1		do
- do -	Bapiiah	1		do
Mallareo-				
- palen	Swamula	1		do
Kamasin				
garavan	Gunta	1		do
Huchampudi	Khandriika	1		do
Jadikala-				
fundi	Subbiah Kunta	1		do
- do -	Silamma	1		do

x Breached long ago.

17 #

#

17 #

5

5

W. H. M. S.
Engineer

22/3

11/3.

CHIEF ENGINEER
FOR IRRIGATION.
2-MAR-93
64

19 MAR 93
FIRST CIRCUIT

List of Railway affecting tanks breached in Tank
at Div in More Jaluk Godavari Western Div on
the 5th September 1995. Note: - for no² of tanks
see list 1/3 forwarded with E.R. Western Div No 97.S.
Submitted to C.E. with No 40283 27-12-95 8-5-95

Name of village	No	Name of tank	Water supply secured	Water supply not secured	Whether Government or Private	Point at which bridge crosses rail way
11 #	2	11 #	3	4	5	6
Kokkirapadu	1	Kotta	-	1	Private	29 25 1 vent of 20 ft span
Kokkirapadu	2	Yerra	1	-	Private	
Vempadu	4	Gandi	1	-	Private	
Vempadu	5	Jamminidu	1	-	Private	
Vempadu	3	Bapigadi	1	-	Private	30 60 58 spans of 20 ft each
Vempadu	4	Gummadi	1	-	Private	
Shagapuram	5	Pendalapadu	-	1	Private	
Shagapuram	6	Tangamkunta	-	1	Private	
Vathur	7	Bedda	-	-	Government	
Ammapalem	9	Hussanikhan	-	1	Private	
Ammapalem	10	Bedda Kadimi Koma- ti Kunta	-	1	Private	
Ammapalem	11	Kavula	-	1	Private	
Oina Kadimi	17	Kamurajir	-	1	Private	
Koppaka	18	Bedda	-	1	Private	
Koppaka	19	Bhinna	-	1	Private	
Hunkunagudem	20	Viramma	-	1	Private	
Suggirala	26	Bedda	-	1	Private	
Tangellamudi	2	Bedda	1	-	Private	39 50 18 span
Somavarappadu	3	Salani	-	1	Private	60 41 18 span
Tangellamudi	4	Nabi	-	1	Private	60 50 18 span

Over
3003/96

near to Cuzimad
all nbs
note

Name of village	No.	Name of tank	Water partly secured	Water wholly secured	Whether Government or Private	Conspicuous which crosses rail way
Narayanapuram	48	Koneru	1	-	Private	
Gunnampalli	51	Indugula Kunta	-	1	Government	
Gunnampalli	52	Manchinilla Kunta	-	1	Government	
Gunnampalli	53	Uppuni Kunta	1	-	Government	
Kodurupadu	54	Talla gunnam	-	1	Government	
Buddepudi	55	Chitlayya	-	1	Private	
Bulla	56	Danumayya*	-	1	Government	
Buddepudi	1	Mangalakara	-	1	Private	53 35 28 spans of 20' each
Saljala	2	Bedda	-	1	Private	
Gunnampalli	3	Lakshminara-Sinhapuram	1	-	Government	
Akkupalli Goka-varan	9	Namburivari	-	1	Government	
Kykarani	1	Kalapalavari	1	-	Government	54 48 4 spans of 20' each
Kykarani	2	Indugula	1	-	Government	
Akkupalli Gokavaram	4	Bedda	1	-	Government	
Kykarani	11	Tempallavari Kotta Kara	1	-	Government	55 33 18 spans of 12'
Kykarani	12	Nandi Bhavani	1	-	Government	
Akkupalli Gokavaram	13	Kotta	1	-	Private	
Akkupalli Gokavaram	16	Ura	1	-	Government	
Kykarani	1	Kotta	1	-	Government	56 55 38 spans of 20' each
Kykarani	2	Challenkayya Kunta	1	-	Government	

* The tank breached 32 years ago.

180 Paul

Engineer

Extract of Report on flood damages,
 Bernwada - Godawari Section, 1950
 East Coast Railway.
 Printed with G.O. No. 27. I. dt 15. 1. 96.

From mile 30 to 31/10, the flood was over rail level scouring the bank on the down stream side. At mile 30/17 the west abutment of a fine 20-ft girder bridge was destroyed with 100 ft of the approach. This bridge takes the surplus water of the Wathur tank which is 2 miles long by 1/2 mile wide and is fed by a channel from the Sammilern river which crosses the Krishna Canal. The Wathur tank breached and was completely empty within a few hours. The spill water from the channel of the Sammilern continuing to flow through the tank and causing all the damage.

- Commend the three 26-ft girder at mile 30/17 being increased to seven spans with training bunds to control the ch₂. Should re-

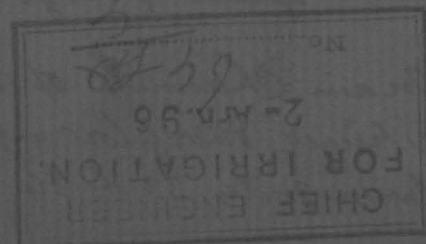
Flood was well over the rails in places as much as 2 1/2 ft. At 32/16 there was a breach of 30 ft. where a 2 ft pipe was provided for irrigation purposes. This is a well defined spill channel from the Wathur tank at its east end, and I would recommend at this point a three 12-ft girder bridge.

From 32/12 to 32/20 about 2/3 of the bank on the down stream side was scoured. From 32/22 to 33/17 and 33/21 to 33/24 the bank was completely washed away, the permanent way being swept down on to the berm. As this section of the line is completely intersected with drainage channels from the Wathur and other large tanks, I would recommend the banks being lowered and heavily pitched to pass abnormal floods. The waterways provided on this length, viz 10 spans of 20-ft girders, have been found from experience to be ample in passing ordinary floods. A section showing the proposed lowering of the formation accompanies the report.

The main channel of the Sammilern river is crossed by the railway at mile 34/14 and a branch at 37/8. The drainage area of the Sammilern is 50 Sq. miles and the discharge was originally estimated at 33,400 cfs per second. To pass this flood discharge, the following bridges are provided:-

Fifteen spans of 20-ft girders already alluded to, ten spans of 40-ft girders across the two channels of the Sammilern and seven spans of 20-ft girders at mile 38/13.

The Canal sluice gates across the main channel of the Sammilern were closed during the flood, thereby the river overflowing both banks destroying the railway embankment between miles 33 & 34 and flooding the town of Ellore on account



Name of village	No.	Name of tank	Water partly recovered	Water wholly escaped	Whether Government or Private	Point at which bridge crosses rail- way.
Chodimala	7	Sondapadu	-	1	Private	
Somavaram	9	Kotta	-	1	Private	
Vegavaram	14	Eagala	-	1	Private	
	15	Devana	-	1	Private	
Uppugudem	17	Kotta	1	-	Private	
Chodimala	22	Kayudu	-	1	Private	
Bedavegi	29	Sitamaggarikunta	-	1	Private	
Nagula devuni- padu	43	Sapigadu	-	1	Private	
Senda luw	51	Kavula	-	1	Government	
Sendulur	53	Handikunta	-	1	Government	
Sendulur	54	Malavala Kunta	-	1	Government	
Sendulur	1	Komati tank	-	1	Government	62 60 3 spans of 12' each
Sendulur	2	Kavula	-	1	Government	
Sendulur	3	Kotta	-	1	Government	
Siramaravaram	1	Godanori Kara	-	1	Government	63 60 2 spans of 20' each
Kantamavarigun- dem	2	Singana	-	1	Private	
Kantamavarigun- dem	3	Bedda	-	1	Private	
Kantamavari- gudem	4	Perantalu	-	1	Private	
Siramaravaram	1	Yara	-	1	Government	64 15 3 spans of 20' each
Kantamavari- gudem	2	Aylikhan	-	1	Private	
Medimiraopalem	3	Salaji	1	-	Private	
Siramaravaram	4	Gurrammakunta	-	1	Government	
Siramaravaram	5	Tuvvikunta	-	1	Government	
Siramaravaram	6	Vinayakuni	-	1	Government	
Medimiraopalem	7	Kurumidi Kunta	1	-	Private	

of the sluice gates being closed, the six spans of 40-ft girders provided by the railway across this channel practically gave no assistance. Similarly, the branch channel of the Sammiturn which is crossed by the railway with 4 spans of 60-ft girders was also useless as the sluice gates on the Canal were closed and the flood was diverted down to the seven 20-ft girders at mile 38/13 destroying three piers and the west abutment.

From 38/15 to 39/15 there were a series of breaches, one of which was 800 ft length, the total length breached being 1700 feet. The flood was above rail level from 38/20 to 39/15 and it is proposed to raise the bank on this length 2 feet and provide the following additional waterway.

The seven spans of 20 ft girders at 38/13 to be increased to ten spans and a new bridge of ten spans of 20-ft girders provided at 39/15. Both the above bridges must be provided with spurs. From 42/21 to 45/9 there were a series of small breaches, the flood being above rail-level.

Between 43/7 to 43/9 there was a breach of 400 feet. It is proposed to provide a new bridge of three 20-ft girders as this is the second time the line has been breached in this place. There were a series of small breaches from mile 43/14 to 43/19 and beyond this up to Shimadole station, mile 49, no damage was done.

Due to the insufficient cross drainage provided by the Canal, the Shimadole yard was 6 inches under water and was only relieved by the Canal breaching.

No.	Name of village	No.	Name of land	Whether Government or Private	Point at which crosses railway.
Cho	Chokrayagudem	9	Lingasanudram	Private	
Son	Muppararam	1	Redda	Government	46 55 28 spans
Ve	Krottagudem	2	Bala	Government	420 ft each
	Krottagudem	4	Kondiah	Government	
	Krottagudem	6	Bapirajin	Government	
Upp	Krottagudem	7	Nagandani	Government	
Chor	Viramavaram	8	Eshwari Kunta	Government	
De	Viramavaram	9	Keddivari Kunta	Government	
Nag	Malakacherla	11	Kumalla gundam	Private	
	Malakacherla	14	Yellamma	Private	
De	Malakacherla	19	Viranna	Private	
De	Malakacherla	21	Dharmahas	Private	
De	Muppararam	28	Kotta	Government	
De	Swappagudem	34	Keddi patti	Government	
De	Swappagudem	35	Vaddevaram	Government	
De	Swappagudem	36	Tamanayyakonam	Private	
De	Chinlatajundi	40	Mamilla	Private	
Har	Chinlatajundi	41	Kavikaya Kara	Private	
	Swappagudem	1	Kotta	Government	47 50 28 spans
Har	Shimadole	1	Komati	Government	48 35 28 spans
	Shimadole	14	Nagiseti Kunta	Government	48 35 1720' each
Har	Polasanapatti	15	Yerra	Private	
	Pangidigudem	36	Yerra	Private	
Shi	Shimadole	1	Wra	Government	49 45 48 spans
					of 20' each
Me	Shimadole	2	Simmanra	Government	
Shi	Nagulapatti	7	Andalamma	Private	
Shi	Nagulapatti	20	Sdula	Private	
Shi	Shimadole	22	Sdula	Government	
Me					

177

The line was also submerged up to mile 50/7, owing to the banking up caused by insufficient cross drainage provided in the Canal. I would recommend the raising of the line at this point as shown in the accompanying section.

From the 56¹/₂ mile to 54/15, there were a series of small breaches; the flood having been one foot above rail level, I would recommend the raising of the bank as shown in the accompanying section.

From mile 56 to Tadepalligudem station, mile 69, the slopes of the bank on the down stream side have been damaged owing to the want of turfing. All the bridges on this length must be provided with pucca floors and drop walls.

There is no damage done to the bridges and very little to the slopes of the embankment between Tadepalligudem and Midadavole station; between Midadavole station and the river the line has suffered no damage.

M. A. Basu
Sec. Engr. No. 102
C. C. Ry.

Name of village	No	Name of tank	Water partly secured	Water wholly escaped	Whether Government or Private	Point at which surplus crosses railway
Shimadole	26	Pattanamikunta	1	-	Government	
Shimadole	27	Saddukunta	1	-	Government	
Shimadole	28	Kotta Kunta	1	-	Government	
Nagulapatti	31	Modugula	1	-	Private	
Shimadole	32	Prathnamikunta	1	-	Government	
Amburupeta	33	Gollasamudram	1	-	Private	
Amburupeta	34	Upparavarikunta	1	-	Private	
Amburupeta	1	Saray	1	-	Private	51 35 18 ft span
Amburupeta	5	Kanchara	1	-	Private	14 ft
Amburupeta	7	Yorra	1	-	Private	
Sarabhapuram	9	Yorra	1	-	Private	
Sarabhapuram	10	Golladi Kunta	1	-	Private	
Orukla	1	Vana Samudram	1	-	Government	53 5 28 ft span
Dadavalli	3	Lajoy Kunta	1	-	Private	7 ft each
Dadavalli	6	Kotta	1	-	Private	
Dadavalli	5	Pedda	1	-	Private	
Pattayagudem	7	Nalla	-	1	Private	
Trimalampalem	13	Kotta *	-	1	Government	
Tadikalapudi	17	Devara	1	-	Government	
Trimalampalem	19	Lingasamudram	-	1	Government	
Trimalampalem	20	Dara	1	-	Government	
Trimalampalem	21	Mangurari	1	-	Government	
Trimalampalem	22	Narasappa	1	-	Government	
Kamannagudem	23	Devavarikonem	1	-	Private	
Kamannagudem	24	Kotula	1	-	Government	
Tadikalapudi	28	Nagula *	1	-	Government	
Tadikalapudi	29	Gandla	-	1	Government	
Tadikalapudi	32	Kavala	1	-	Government	
Trimalampalem	37	Regulavarikunta	1	-	Government	
Trimalampalem	38	Gollararikunta	1	-	Government	

* These two tanks breached last year

List of Railway affecting tanks breached in Tank Sub Div in Yernagudem Taluk Gody H & Com Div on the 5th Sep 1895 - Note:- for No^s of tanks see list 2/3 forwarded with E.I. Western Div No 97-5
Submitted to C & I with no 402 D.O. of 15/5/95

Name of village	No	Name of tank	Water partly secured	Water wholly escaped	Whether Government or Private	Point at which surplus crosses railway
Nallamadu	5	Pedda	1	-	Government	53 35 28 ft span
Nallamadu	7	Gamallakunta	1	-	Government	54 20 ft span
Nallamadu	8	Suddakunta	1	-	Government	
Nallamadu	6	Shimudu	1	-	Government	54 70 18 ft span
Nallamadu	7	Chitteru	1	-	Government	17 ft
Nallamadu	8	Mogulla	1	-	Government	55 33 18 ft span
Nallamadu	9	Talagaraduppu	1	-	Government	17 ft
Nallamadu	10	Akaderatata	1	-	Government	

M. B. Engineer
11/3
12/3

CHIEF ENGINEER
FOR IRRIGATION.

2-APR-96

No.

64

13 18

List of Tanks breached in Dammitlu
Basin on 5th September 1895.

Name of Village	Names of Tanks	Water partly leaked	Water completely escaped	No. of Tanks	Name of Group	Private or Government
Gerrampally	Ramireddi Tank	1	"	1	Gedavelli Group	Government Isolated.
Kalyanamparo	Ura Tank	1	"	4	do	do
Seringajudem	Pedda or Ura Tank	1	"		Bapiraju Seringajudem Group	Private Government
do	Baloni Tank	1	"		"	Private
Lingapalem	Sectamma Tank	"	1	12	Bapiraju Seringajudem Group	Government
Mathenjudem	Lingulavani Cunta	"	1	9	do	Government
	Ura Tank	1	"	10	do	Government
	Suralamudra Tank	1	"	11	do	Government
Lypaparaudem	Dalla Tank	1	"			Private
	Duraca Tank	1	"			Private
	Mala Cunta	1	"			Private
Bogole	Jagamayakula Tank	1	"			Private
	Pedda Tank	1	"	16	do	Private
	Vengalamma Tank	1	"			Private
	Narasimpurdy Cunta	1	"			Private
	Venkamma Cunta	1	"			Private
	Ura Tank	"	1			Private

Dr. S. V.
3883/96

	Kayadu Cunta	1	-		Private
	Idula Cunta	1	-		Private
	Atti Cunta	1	-		Private
	Satagopaya Cunta	1	-		Private
Dharmajigudem	Mallabamman	1	-	6	Bapirajudem Government
	Yura Dank	1	-	3	Do- Government
	Regunta Dank	1	-	2	Do- Government
	Rachappa Dank	1	-	3	Hondachur Government
	Sumala Dank	1	-	2	Do- Private
	Qovai	1	-		Private
Bapirajudem	Vaddicatta	1	-		Private
Nadipalli	Pattipotamma Dank	1	-		Private
Rayarupalem	Jangamvari Cunta	1	-		Private
	Bommaraju Cunta	1	-		Private
	Battala Cunta	1	-		Private
Hondalera	Yura Dank	1	-		Private
palen-	Korlagandy	1	-		Private
	Pavanam Dank	1	-		Private
Vijayaragi	Savata Dank	-	1		Private
Janampet	Kobury Dank	1	-		Private
	Suraya Cunta	1	-		Private
Lokanapally	Gopukamma Dank	-	1		Private

Kondapadu	Kondapete Dank	1	-		
Chintampeta	Mogallu Dank	1	-		
	Mutyalamma Dank	1	-		
Parvatipuram	Pilli Cunta	1	-		
Polavarau	Silanjudem Dank	1	-		
Lomavarau	Yura Dank	1	-		
	Marlapadu House	1	-		
Kottagudem	Palla Dank	1	-		
	Battala Dank	1	-		
Suripally	Damurta Dank	-	1		
	Ramadu	1	-		
Javarau	Motal Dank	1	-		
-varau	Ramiahgari Dank	1	-		
Angollupeta	Golla Yura Dank	1	-		
	Rungiah Dank	1	-		
	Yura Dank	1	-		
Kondapadu	Yura Dank	-	1		
	Janakattu	-	1		
	Yegua Dank	-	1		
Chittapur	Gaudi Dank				

These Dankos are in the Krishna District & it is not known in this Office whether they are Government or Private.

	Anakavaram Tank	1	"
	Kommara Cunta	1	"
	Bottala Tank	1	"
	East Side Tank	1	"
Gollapudi	Ura Tank	1	"
	Dharma Tank	1	"
	Jogiraju Tank	1	"
Chikapelli	Ura Tank	1	"
	Jugala Tank	1	"
	Kotta Tank	1	"
Raichana	Jugala Tank	1	"
Kkapetta	Battu Kunta	1	"
	Komati Kunta	1	"
Ankirewaru	Kotta Tank	1	"
-raunigudem			
Chintalavelli	Kammara Kunta	1	"
Gopulampara	Ura Tank	1	"
Masunipeta	Nala Tank	1	"
	Kajarla Tank	1	"
	Ravijumta	1	"
Valasapalli	Nalla Tank	1	"

These Tanks are in the Krishna District & it is not known in this office whether they are Government or private.

	Yellapuram Pottanna Tank	1	"
		1	"
Dokavaram	Pedda Tank	1	"
	Syrumma Tank	1	"
	Pedamala Pedda	1	"
Balini	Ramagundam	1	"
	Doula Tank	1	"
Veluguchirala	Leshapala Tank	1	"
	Chilakalamudram	1	"
	Ura Tank	1	"
	Chaviti Tank	1	"
	Jagaruvani Cunta	1	"
	Kotta Tank	1	"
Luigavarani	Villayi Cunta	1	"
Ravijarla	Kamaraju Tank	1	"
	Ura Tank	1	"
Dejavalli	Nalla Tank	1	"
Chatraya	Sangava Tank	1	"
	Dupa Tank	1	"
	Ura Tank	1	"
	Venkatasri Cunta	1	"
Buruzagudem	Polli Cunta	1	"
	Lubbauna Tank	1	"

These Tanks are in the Krishna District & it is not known in this office whether they are Government or private.

Sunnagudem	Neelani Dauh	1	"
	Yema Dauh	1	"
	Chintala Dauh	-	1
	Kotta Dauh	-	1
Doudapadu	Subbaiah Cuata	1	"
Ropudry	Kotta Dauh	1	"
	Vukateoni Dauh	1	"

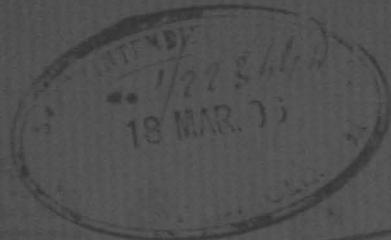
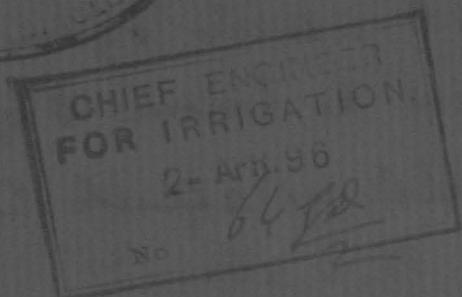
These lands are in the Krishna District & it is not known in this office whether they are Government or private.

Paul
S. S. S. S.
12/3

in the office of the District Collector, Krishna District, is not known in this office whether they are Government or private.

Paul
S. S. S. S.
12/3

Sunnagudem	Neelani Dauh	1	"
	Yema Dauh	1	"
	Chintala Dauh	-	1
	Kotta Dauh	-	1
Doudapadu	Subbaiah Cuata	1	"
Ropudry	Kotta Dauh	1	"
	Vukateoni Dauh	1	"



253
3883/96

Copy of letter No. 4335 from the
Super Engineer Godavari Division to the
Super Engineer 18th Div.

With reference to your No. 2520 on
G.D. no. 379, I have the honour to report that
the East Coast Railway affects the Godavari
Ellen Canal from Mile Stone (38).

2. The Vathur tank which is referred
to by the Super Engineer No. I Division E. Railway
is in my charge was breached owing to the
Tannibera coming down with a discharge of
at least 100,000 cft per second. A considerable
quantity of this water entered the Vathur tank
and breaches were inevitable. This tank has
been lately repaired but the weir is not of suffi-
-cient length nor in some parts is the bank,
which is of very bad soil, of sufficient section.
I have now ordered the weir to be lengthened
to 500' and the bank to be made up throughout
to 6' top breadth and to the same level throughout.

3. At 38 1/3 Railway mileage an
additional waterway of 60' and at 39 1/5 of
200' is proposed by the Railway Engineer.
I propose at 44 Canal mileage which is opposite
40 Railway mileage, an additional length
of inlet and outlet each of 500 feet.

4. At 43 1/7, Railway mileage, an
Additional

waterway of 50 feet is proposed.

At 40 + at 36 canal mileage ~~respectively~~
opposite to 45 + 37 Railway mile respectively
I propose to cut down the Canal banks (masonry
works into probably be unnecessary) so as to
allow for a 500' outlet and inlet at each place.

The latter will relieve Bhimadole Station.

I Enclose lists of the Railway/
Affecting tanks that breached and also a
list of the tanks in the Jammitern basin
and Gunduru basin that breached and
affected the Jammitern and Gunduru
respectively.

I have etc

(Sd) J. H. Paul
Ex. Engr.

'True Copy'
W. D. Morgan

Exec Engr. in Ch. 18. mile

Dec 5. 2
3873/96
28/13

CHIEF ENGINEER
FOR IRRIGATION.
2-APR-38
66

No. 2952 G.D.

FROM

W. C. De Maza Esq.
SUPERINTENDING ENGINEER

FIRST CIRCLE.

Enclosures. 5.

TO

THE Chief Engineer for Irrigation.
Madras.
Camp. Bank Canal Control Delta
DOWLAISHWERAM, 25. 3. 96.

SIR,

With reference to para 2 of G.O.
No. 372 / 15.1.96, I have the honour to submit herewith
Copy of a report, with enclosures, received from
the Eng. Engr. Godavari Western Div. on certain
points raised in the report on flood damage
to East Coast Railway within the limits of
Godavari Western Division embodied in the
G.O. quoted above.

I have the honour to be
Sir,

Your Most obedt. S.

W. D. Morgan
26/3

Exec Engineer in Ch. 18. mile

28/13

From W.C. De Morgan Esq.
Ex. Engr. Incl. I circle,

all to
The Chief Engineer,
FOR IRRIGATION
2-4-11-96 For Irrigation,
Madras.

App Dated 25th
Sept 30th March 1896.

an N-2952 G.D.

app Encls. 5

resp Subject

Flood damages to East Coast
Railway within the limits of the
Coastal Western Division —
Submits copy of a report on the —

Ans. 3873
3883/56