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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue.....DEPARTMENT

G.O. No.

B.P. No.

382

Press

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Dated

25. 2. 1875 196

Not to be folded or roughly handled

No. 543. Read the following letter from W. A. GOODCHAP, Esq., District Engineer, Kurnool, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated 12th December 1874, No. 33:—

Report on Tanks situated in the Madras Irrigation and Canal Company's Canal in the Nundial Tank.

WITH reference to your Memorandum, No. 52, dated 20th August 1874, and G. O., No. 3,286, dated 20th ultimo, I

- | | |
|--|---|
| 1 List of Tanks above the Madras Irrigation Company's Canal. | have the honor to report that I inspected |
| 2 Sketches do. | on the 17th, 21st, and 22nd November 1874 the following tanks above the |
| 1 Copy of Nundial Deputy Collector's letter. | Madras Irrigation and Canal Company's |
| 1 Estimate cost of closing breaches. | |

Canal in company with the Deputy Collector, A. Ramachendra Row, and the Tahsildar of Nundial:—

I.—Iyalur Tanks.

2. The bunds of these tanks were breached in three places in July 1874, which the villagers have temporarily closed, and they state that no wilful cut was made in the bunds, but the water overtopped them. The crops at the time were and are in the contour of the beds proper, and such cultivation was authorized by the Revenue authorities, (*vide* copy of the Deputy Collector's letter, No. 199, dated 17th October 1874, attached.) Where the breaches exist, it is not the deepest part of the tank bed, but about the average depth of it. These tanks are supplied from the Palar (one of the feeders to the Nundial tanks) through an old regulating masonry work of three openings, each about 3 feet in breadth; but, as the Palar banks were breached in many places, and 50 yards in length just above the masonry work referred to above, there is no doubt that the breaches were caused by the sudden rush of water into the tanks. The Revenue authorities, I am informed, have fully gone into the case, but have not been able to convict any of the ryots of cutting the bund. I beg to observe that in Mr. Dodson's monthly report for July 1874, embodied in G. O., No. 2,663, of 18th September 1874, he states that the "Palar river had burst its banks and flooded great part of the district, and was headed up at aqueduct No. 20; also that the Palar river sent a large body of water into the Iyalur tanks, the bunds of which were cut by the ryots of Iyalur, and that the flood waters were allowed to rush down over the fields, until intercepted by the spoil banks on the 109th mile." The water rose passing under the canal by culvert No. 20 until the pressure of the head of water greatly endangered the safety of the structure; and to relieve the culvert, Mr. Dumphy cut the eastern bank of the canal just below and allowed the flood to flow down the canal into the 8th section.

3. It is necessary, for your information, to describe the two tanks at Iyalur before noticing culvert No. 22.

4. The village of Iyalur has two tanks; their bunds are long, low, and in very bad order; their beds are cultivated almost up to the bunds. They are very shallow, 2 feet being about the average depth of water retained in them in their present state of repair.

5. With reference to culvert No. 22, my opinion is, even if the tanks at Iyalur are put into good order, that it is not large enough to pass the surplus water from the proposed improved natural waste weir of the tanks. I may here remark that the canal authorities appear to have recognized that fact, as Mr. Dumphy informed me that they were going to construct a masonry inlet or calingulah at the point where the upper bank of the canal is breached.

6. I have instructed the Range Officer to carefully close the breaches in the Iyalur tanks and enlarge the natural escape weir at once, and to frame estimates for putting the tanks into thorough order, as also its feeder from the Palar. The plans and estimates will be forwarded in due course.

II.—Chinna Devalapuram Tummala Tank, Pedda Devalapuram Erra and Santajutur Santanapu Tanks.

7. These three tanks were also breached on the 18th July 1874. The first tank that breached was Chinna Devalapuram Tummala tank, after which the other two breached almost simultaneously. The cause of the first tank breaching was owing to the ryots of that village having cut without authority a channel from the Muddalair, a large jungle stream from the Nullamala range of hills, into their tank. From inquiries I learn that the ryots of Chinna Devalapuram excavated a new channel from Muddalair river to their tank last year, in the months of October and November 1873, without the permission of the Revenue authorities, or the knowledge of this department. The consequence was that too much water entered the tank by this new channel, as it has a fall of 18.34 feet per mile and is about six miles in length, with an open head; besides this new channel, there are two old supply channels to the tank, which the villagers stated were quite sufficient and even more than was required in favorable years of rainfall for the supply of their tank. There appears to be no doubt that the bund of the tank was overtopped for a length of 123 yards, and in height one foot, thereby causing breaches measuring as follow:—

YDS.	YDS.
Length 25 × 3	in depth.
" 23 × 7	"
" 27 × 3½	"
" 11 × 3	"

The tank* was under repair at the time of the breaches, at an estimated cost of Rupees 3,200. As soon as the flood waters of the Chinna Devalapuram Tummala tank entered the Pedda Devalapuram Erra and Santajutur Santanapu tanks, it overtopped the bunds of both tanks to a height of one foot, breaching them in five places as follows:—

YDS.	YDS.
Length 7 × 3½	in depth.
" 28 × 6½	"
" 30 × 2	"
" 20 × 6	"
" 7 × 2½	"

} Pedda Devalapuram Erra tank.
} Santajutur Santanapu tank.

I inspected the damage said to have been done to the Madras Irrigation Canal banks near Jutur and below up to the canal bridge on the 95th mile by the breaching of Government tanks, and found on examination that the surplus

water from the three tanks above referred to falls into the Salah Vagu, marked X on the sketch enclosed. It would appear that the Vagu overflowed at the point Y, and, passing down A B C D E, got dammed up against the upper canal bank at E and breached the bank at F. Opposite E is a masonry work, which, in my opinion, is not of sufficient capacity to pass ordinary flood waters into the canal; an elevation of this masonry work, marked G, is enclosed for information. I was informed that the canal bank breached at point F three years ago, and I found only one breach recently closed, and that at the same point.

8. If the approach to the bridge at Z be lengthened and raised, and the bed of the Vagu deepened at that point, it will prevent the Vagu overflowing and admit of the water passing freely and straight through the canal bridge.

9. I beg to state that I am of opinion that the villagers of Chinna Devalapuram should be severely punished for cutting the channel (a longitudinal* and cross sections* of which are enclosed) and be made to pay at least a moiety of the damage done to the tanks; an approximate estimate of which is forwarded.

10. I have addressed the Collector on the subject with a request that he will be good enough to order the channel to be closed at once by the ryots.

11. The breaches in the three tanks above referred to have been partly closed, and the natural escapes enlarged. Estimates and plans for thorough repairs, etc., were forwarded to your address with letter, No. 31, dated the 9th instant.

12. I enclose a statement showing the number of tanks above the Madras Irrigation Company's Canal in the Nundial Taluq, with remarks, and to report that, as the canal is on the water shed of the district in Sirwell, no Government tanks lie above it in that taluq.

List of Tanks above the Madras Irrigation Company's Canal in Nundial Taluq.

No.	Name of Tanks.	Average Revenue under the Tank.	Approximate Distance from the Canal in Miles.	Remarks.
1	Pedda Devalapuram Erra tank	RS. 959 A. 11 P. 2	2	Estimate submitted. Emergent repairs in progress, and new natural escape being formed.
2	Chinna Devalapuram Tummala tank.	1,256 2 5	3	Under repair. Do. nearly completed.
3	Narayanapuram Bramhana tank	1,091 8 0	4	An estimate will be submitted in due course.
4	Do. new tank	404 12 10	3½	Has been repaired thoroughly.
5	Santajutur Santanapu tank	997 10 0	2½	Estimate has been submitted with letter No. 31, dated 9th December 1874.
6	Galichennapaliem Patha Chervu, or old tank.	1,173 7 11	3	An estimate will be sent shortly.
7	Do. new tank	1,059 11 3	2½	Thoroughly repaired lately.
8	Do. Nemilla tank	403 1 7	3½	Estimate has been submitted with letter, No. 31, dated 9th December 1874.

Proceedings of the Madras Government, Public Works Department,
22nd February 1875.

List of Tanks above the Madras Irrigation Company's Canal in Nundial Taluq.—(Concl'd.)

No.	Name of Tanks.	Average Revenue under the Tank.	Approximate Distance from the Canal in Miles.	Remarks.
9	Ramapuram Vaddevanikunta ...	RS. A. P. 191 13 1	2	Repaired only three years ago; wants a large natural outlet. Will have attention.
10	Do. Amidala tank ...	790 7 0	3	Do. do. do.
11	Bandiatmakur small tank ...	1,020 11 8	2	In good order; only wants a natural outlet.
12	Kadamalakalva Prama tank ...	1,103 13 8	3½	Estimate will be submitted in due course.
13	Byapukodur tank ...	955 9 10	50 Yards.	Under repair.
14	Thammadapalle tank ...	614 11 6	2	An estimate will be sent in shortly.
15	Iyalur north tank ...	398 12 3	1	Orders have been issued to the Range Officer to close breaches and enlarge the natural escape at once, and frame estimates for thorough repairs. Plans and estimates will be forwarded shortly.
16	Do. small tank ...	288 13 0		

KURNOOL,
12th December 1874.

(Signed) W. A. GOODCHAP,
District Engineer.

From A. RAMACHENDRA ROW, Deputy Collector of Kurnool, to the Supervisor in charge Nundial Range, dated Nundial, 17th October 1874, No. 199.

With reference to your letter, No. 347, dated 6th instant, I have the honor to inform you that the cultivation in the bed of the North Ayalur tank has been carried on from several years. The ryots hold puttass for such lands from even before the paimaish in some cases.

Government ...	EXTENT ACRES.	2. The extent of lands so cultivated is
Inam ...	87-35	given in the margin.
	9-37	
	96-72	

Estimate cost of closing breaches in the Santajutur Santanapu, Pedda Devalapuram Erra and Chinna Devalapuram Tummala Tanks caused by the new channel cut by the Ryots of Chinna Devalapuram without the consent of the Revenue Authorities or knowledge of this Department.

Description of Work.
SANTAJUTUR SANTANAPU TANK.

1st Breach.

	Amount.
RS. A. P.	
Removing silt and cutting steps including baling	85 9 4
Earth-work...	412 2 0
Wet tamping in 9-inch layers	88 5 0
Turfing	19 14 0

Proceedings of the Madras Government, Public Works Department,
22nd February 1875.

	Amount.
RS. A. P.	
2nd Breach.	
Removing silt and cutting steps including baling	2 5 4
Earth-work...	7 9 6
Tamping	2 8 6
Turfing	2 7 4
Earth-work allowed for shrinkage	22 8 0
Sundries and Superintendence	66 11 0
Total	710 0 0

PEDDA DEVALAPURAM ERRA TANK.

1st Breach.

Removing silt including baling	33 10 8
Earth-work for filling breach	92 5 0
Tamping	19 12 6
Turfing	4 13 6

2nd Breach.

Removing silt including baling	124 10 8
Earth-work for filling breach	659 1 6
Tamping	141 3 9
Turfing	29 2 6
Earth-work allowed for shrinkage...	65 3 4
Sundries and Superintendence	160 0 7
Total	1,330 0 0

CHINNA DEVALAPURAM TUMMALA TANK.

1st Breach.

Opening bund	43 12 0
Earth-work to fill the breach	76 9 0
Tamping	16 6 6
Turfing	3 14 6

2nd Breach.

Removing silt and cutting steps and baling	105 0 0
Earth-work to fill the breach	593 1 8
Tamping	127 1 6
Turfing	13 7 0

3rd Breach.

Removing silt and cutting steps and baling	47 0 0
Earth-work...	177 10 0
Tamping	38 1 0
Turfing	7 13 6

4th Breach.

Removing silt and cutting steps and baling	27 1 4
Earth-work	157 5 8
Tamping	33 11 6
Turfing	3 10 0

*Proceedings of the Madras Government, Public Works Department,
22nd February 1875.*

	5th Breach.	Amount.		
		RS.	A.	P.
Removing silt and cutting steps and baling	...	10	10	8
Earth-work...	...	51	10	0
Tamping	...	11	1	0
Turfing	...	1	7	0
Earth-work allowed for shrinkage	...	105	0	0
Sundries and Superintendence	...	168	10	2
Total		1,820	0	0

Add the cost of 1,500 cubic yards of earth-work done as per estimate sanctioned in G. O., No. 637, of 10th March 1874, and washed away when the water overtopped the bund ... 235 0 0

Total Rupees of damage done ... 2,055 0 0

Abstract.

Santajutur Santanapu tank	...	710	0	0
Pedda Devalapuram Erra tank	...	1,330	0	0
Chinna Devalapuram Tummala tank	...	2,055	0	0
Grand Total of damage done		4,095	0	0

KURNOOL,
12th December 1874.

(Signed) W. A. GOODCHAP,
District Engineer.

No. 544. ORDER THEREON, 22nd February 1875, No. 510.

IRRIGATION, No. 43.

FROM the foregoing report it appears that the Iyalur tanks were not cut by the villagers as had been sup-

posed, but their bad state of repair and the overflow of the Palar into them led to their breaching. It would seem that the embanking of the Palar to prevent its flood waters spreading over the country is needful; and, with regard to the circumstances of the Iyalur tanks given in paragraph 4 of the District Engineer's letter, it would appear to be desirable that it should be ascertained whether their retention is necessary, as nearly all their beds are cultivated.

2. The attention of the Chief Engineer and Manager, Madras Irrigation and Canal Company, will be requested to the remarks in paragraph 5 of Mr. Goodchap's letter.

3. A further report as to the result of the Collector's investigation into the proceedings of the ryots of Chinna Devalapuram in cutting a new supply channel without permission will be awaited. The consequence was the breaching of this tank and of two others below it, and the estimated cost of the repairs is the large sum of Rupees 4,095. The District Engineer has not stated whether the improvements to the surplus weir provided for in the estimate sanctioned in G. O., No. 637, of the 10th March 1874, had been completed or not. The first thing necessary is to provide for the escape of surplus, and, if tanks cannot safely retain a full supply, the crests of their surplus weirs should be temporarily lowered until the bunds have been put to rights.

*Proceedings of the Madras Government, Public Works Department,
22nd February 1875.*

4. It may be remarked in connection with the latter part of paragraph 8 of the District Engineer's letter, that the sketch forwarded indicates that damage to the canal just below the head of the 7th section can easily be prevented, and his recommendations will be brought to Mr. Latham's notice.

(True Extract.)

C. Latham Colonel, R.E.,
Secretary to Government.

To the District Engineer, Kurnool.
.. Chief Engineer for Irrigation.
.. and Manager, Madras Irrigation and Canal Company, with two tracings.

No 689
Revenue 1875 Depto
Govt. of [1875] Madras.
PUBLIC WORKS.

To

THE DISTRICT ENGINEER, KURNOOL.

cc. cc. cc.

Vide B. R. 7 Sep/75 No 2504

4 sheets

Dated February 22nd.

Recd. - 24.

Encl.

G. O., 22nd February 1875, No. 510.

Recd. Miss

FEBRUARY.

Nos. 543-544

14 To the Board of Rev. Sec. 27 Feb

Tanks, Kurnool District.—Passing orders on the report submitted by the District Engineer relative to the breaching of certain tanks above the Madras Irrigation and Canal Company's Canal in the Nundial Taluq in July last.

No 382
Comm. to the
Board of Revenue
C. S. 1875