Public Works (1897) Department.

G.O., No. 612 I

DATED 5 July 97

1/7/97

1/7/97

[Despatch Abstract.]

Railway Affecting tanks: Sanctioning, with remark, the execution, by the P.W.D., of the contribution work of repairing certain — in the Mandasa and Jalantra Zamindaries in the Ganjam Dt.

100/6

[P.W. 26
1,500—30-11-95.]

5.7.97

Indexed 5/7

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Government {1897} of Madras.

PUBLIC WORKS.

Recd.	1897.	*Enclosures*
Regd.		*Spare copies*

G.O., No. 612 I., 5th July 1897.

JULY.

Railway-affecting tanks

Sanctioning, with remark, the execution, by the Public Works Department, of the contribution work of repairing certain — in the Mandasa and Jalantra zemindaris in the Ganjám district.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper :—

From J. C. LARMINIE, Esq., M.I.C.E., Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, dated Waltair, 11th June 1897, No. 262 G.N.

I have the honour to forward, herewith, plans and estimates for repairing the railway-affecting tanks as per margin in Mandasa and Jalantra zemindaris in Ganjám district, and to request that you will be so good as to obtain the requisite sanction of Government for the execution of the same by this department.

	Estimate.
	RS.
Mandasa Zemindari.	
Ova tank of Mogrujola	42
Kotha tank of Allimerka	46
Kari tank of Baligam	41
Pedda tank of Haripur	162
Cheeprujola tank of Ambugam	80
Hathibanda tank of Palavalsa	128
Jalantra Zemindari.	
Mukundasagaram tank	47
Kummanna tank of Boorgam	136
Padmanabasagaram tank	55
Bissoyi Chinna tank	225
Gangasagaram tank	70
Narayanasagaram tank	240
Total ..	1,272

2 The Collector, Ganjám district, states in his letter, No. 977 Ver. of 16th May 1897, that the owners of these private tanks are not willing to undertake the repairs themselves and that they desire to get them repaired by this department and to charge them with the costs. The Collector, Ganjám district, has already been requested to arrange to recover the estimated amounts with percentage * charges thereon from the parties concerned and to place the same in some Government treasury to the credit of this department.

* Rs. 504.

ENCLOSURES.

REPORT to accompany the estimates for improvements to—

	Estimate.
	RS.
(1) Ova tank of Mogrujola	42
(2) Kotha tank of Allimerka	46
(3) Kari tank of Baligam	41
(4) Pedda tank of Haripur	162
(5) Cheeprujola tank of Ambugam	80
(6) Hathibanda tank of Palavalsa	128
Total ...	499

These are all railway-affecting tanks of the Mandasa zemindari. The estimates provide for strengthening the bunds of the tanks and for constructing roughstone byewashes of sufficient lengths to dispose of the surplus discharges for the purpose of protecting the railway line.

Bund.—The top width of the bund in all the tanks is to be 5 feet with side slopes 1½ : 1 and 2½ feet above M.W.L.

Surplus arrangement.—Roughstone byewashes of necessary lengths have been provided for disposing of the surplus discharge as shown in the following table. The value of C has been taken as 450.

Name of tank.	Catchment area.	M.W.L. above F.T.L.	Length of flush escapes.
Ova tank of Mogrujola	¼	1·5	42
Kotha tank of Allimerka	3/16	1·5	35
Kari tank of Baligam	¼	1·5	42
Pedda tank of Haripur	1	2·0	68
Cheeprujola tank of Ambugam	1	2·0	68
Hathibanda tank of Palavalsa	1	2·0	68

REPORT to accompany the estimate for improvements to Ova tank of Mogrujola.

	RS.
Amount of estimate	42

The bund of the tank is 2½ feet above M.W.L., and 3 feet wide at top with side slopes 1½ : 1. It has to be made 5 feet wide at top with side slopes 1½ : 1 and a lump sum of Rs. 20 has been provided for this.

Provision is also made in the estimate for a flush escape of sufficient length to dispose of the surplus discharge.

REPORT to accompany the estimate for improvements to Bessy Chinna tank, Narayanasagaram and Gangasagaram of Jalantra zemindari.

	RS.
Amount of estimate	535

The estimates provide for repairing the railway-affecting tanks. The bund of each tank is to be 5 feet wide at top with side slopes 1½ : 1 and height 2½ feet above M.W.L.

Roughstone byewashes of sufficient length have been provided for the tanks as per following table, to dispose of the surplus waters :—

Name of tank.	Catchment area.	Length of escape.	M.W.L. above F.T.L.	Existing length.	Additional length.
	SQ. MILE.	FEET.	FEET.	FEET.	
Bessy Chinna tank	1	49	2	25½	23½ feet for weir or 33 feet for escape.
Narayanasagaram	0·75	86	1·5	..	86
Gangasagaram	·2	78	2	42	36 feet for weir or 50 feet for escape.

REPORT to accompany the estimate for improvements to Padmanabasagaram tank, Jalantra zemindari.

	RS.
Amount of estimate	55

The bund of the tank is in good condition. It is 5 feet wide at top with side slopes 1½ : 1 and 3 feet height above M.W.L. The estimate provides a lump sum for filling up the erosions.

Surplus arrangement.—There is at present a calingulah 28 feet long. Its effective length is 24 feet.

$$\text{Maximum flood discharge} = C.M.^{\frac{2}{3}}—C.M.^{\frac{2}{3}}$$
$$= 450\ (2\tfrac{1}{2}^{\frac{2}{3}})—90\ (1\tfrac{1}{2}^{\frac{2}{3}})$$
$$= 828—118 = 710 \text{ cubic feet per second.}$$

Discharge over existing weir 221 cubic feet. The remainder is 489 cubic feet. The length of byewash required to discharge 489 cubic feet is 74 feet.

No. 612 I., 5th July 1897.

Report to accompany the estimate for improvements to Mukundasagaram tank of Jalantra zemindari.

Amount of estimate ... ... RS. 47

The bund of the tank is in good condition. A lump sum is provided in the estimate for filling up the erosions and other low places. The bund has an average width of 6 feet.

The catchment area of the tank is ¾ square mile. The length of weir required to discharge the surplus with 2 feet over crest is 40 feet. A roughstone byewash 56 feet for 40 feet weir long has been provided in the estimate.

Report to accompany the estimate for improvements to Kummanna tank of Boorgam.

Amount of estimate ... ... RS. 136

The bund of the tank is at present 6 inches above M.W.L. It is to be raised to 2½ feet above M.W.L. with 5 feet top width and side slopes 1½ : 1.

The catchment area of the tank is ⅓ square mile. Length of escape required to discharge the surplus with 1·5 feet over crest is 66 feet. The estimate provides for building a roughstone byewash 66 feet long with winged revetment on one side.

Order—No. 612 I., dated 5th July 1897.

The execution by the Public Works Department of the repairs referred to is sanctioned.

2. The cost of the repairs, including the percentage charges for establishment and tools and plant, should be fully realized before the work is put in hand.

(True Extract.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ Superintending Engineer, I Circle, with 57 enclosures.
„ Examiner, Public Works Accounts.

Exd. Shaik Karim.

Public Works (1897) Department.

CURRENT No. ~~45 G.N.~~ 6502

Repair of Tanks affecting Rys in the Ganjam Dt.

No. 612 I of 5.7.97

A.S.H. 27.6.97

1744th A

8

Order

The execution by the P. W. Dept of the repairs referred to is sanctioned.

2. The cost of the repairs including the percentage charges for establishment & tools & plant should be fully realized before the work is put in hand.

25/6/97

W.H. 25.6.97

I

D. I.

Issue W.H.

To 25/6

29.6.97

The Chief Engr for I

Supg Engr I with 57 enclos

Exr P. W. A.

& 1/7/97

L.C.S. 23/6/97

From J. C. Larminie Esq,
Supg: Engineer, 1st Circle

To The Chief Engineer for Irrigation

No. 262 G.N.

Sent with report

Dated 11.6.97. 3.9.97

Received ~~9-6-97~~

Enclosures ~~43~~ 62 (13 plans)

Spare copies

SUBJECT.

Railway affecting tanks in Mandasa & Jalantra Zamindaris — Submits plans & Estimates for repairing the — for favor of sanctioning their execution by the Dept.

Paper,

L.C.S. 15/6/97

BACK PAPERS.

G.O.	No.	Department.	Date.
l	33	Rev	D 14-6-97
R	87	I	D 22-1-97
R	6	I	D 4-12-96
R	67	R	D 10-2-96
R	649	R	17-5-93

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Report to accompany the Estimates for Improvements

to

1. Ora tank of Mogranjola. Est Rs. ~~38~~ 42
2. Kotha tank of Khimika. Est Rs. ~~41~~ 46
3. Kari tank of Bahgam - Est Rs. 36. 41
4. Pedda tank of Harupin. Est Rs. 155. 162
5. Cheepurigola tank of Ambagam Est Rs. 70. 80
6. Kathibanda tank of Dalawalka Rs. 122 128

Total. ~~499~~ 462

8434
261/16-6

These are all Railway affecting tanks of the Mandasa Zemindary. The Estimates provide for strengthening the bunds of the tanks and for constructing rough stone byewashes of sufficient length to dispose of the surplus discharges, for the purpose of protecting the Railway line.

Bund. The top width of the bund in all the tanks is to be 5 feet with side slopes 1½:1 and 2½ feet above M.W.L.

Surplus arrangements. Rough stone byewashes of necessary lengths, have been provided for disposing of the surplus discharge, as shown in the following table. The value of C has been taken as 450.

Name of Tank.	Catchment area.	M.W.L above F.T.L.	Length of Flush Escape.
Ova tank of Mogrujola	1/4	1.5 . . .	~~30~~ 42.
Kotha tank of Akmudika	3/16	1.5 . . .	~~25~~ 35
Kari tank of Bahjam	1/4	1.5 .	~~30~~ 42.
Pedda tank of Haripur	1	2.0 .	~~49~~ 68.
Chappujola tank of Ambujam	1	2.0 .	~~49~~ 68
Hattibanda tank of Dalasaha	1	2.0 .	~~49~~ 68 . .

COLLECTOR
19

K. Gopala Ayyar
Overseer.
9/12/26.

12.12.26

OWS. 62
650.197

W.D.K.

Exe. Engineer
Ganjam Dt.

Report to accompany the Estimate for
Improvements to Ova tank of Mogrujola.
Amount of Estimate. Rs. ~~38~~ 42

The bund of the tank is 2½' above M.W.L. and 3' wide at top with side slopes 1½:1. It has to be made 5' wide at top with side slopes 1½:1 and a lump sum of Rs 20 has been provided for this.

Provision is also made in the Estimate for a flush Escape of sufficient length, to dispose of the surplus ~~waters~~ discharge.

K. Gopala Ayyar
Overseer
9/12.

12.12.26.

Rec. 61
6502/97

COLL
14

488

Report to accompany the Estimate for Improvements to Berrychinna tank, Narayanasagaram, & Gangasagaram of Jalantra Zemindary.

26 MAR 97

Amount of Estimate - Rs. ~~545-0-0~~ 535

The Estimate provide for repairing the Railway affecting tanks. The bund of each tank is to be 6' wide at top, with side slopes 1½ : 1 & height 2½' above H.W.L.

COLLECTOR
MAY 97
GANJAM.

Roughstone byewashes of sufficient length, have been provided for the tanks as per following table, to dispose of the surplus waters:

Name of tank.	Catchment area.	length of escape.	H.W.L above F.T.L.	existing length	additional length,
Berrychinna tank	1 sq mile	49 ft.	2 ft	25½	23½ for weir or 33 ft for escape
Narayanasag-~~aram~~ -aram	0.75 sq m	~~47~~ 86	1.5 ft.	-	86 47
Gangasagaram	2 sq m	78	2 ft	42	36 ft weir or 50 ft escape.

Exe. Engineer
Ganjam Dt.

J. McAlly
S.D.O. Berhampore
27/1/97

K. Gopalarangaiah
26/1/97

EER
TION.

45 G.R / 29

Oct 5.31 / 6502(87)

Report to accompany the estimate for Improvements to Padmanabasagaram tank, Jalanthra Zemindary.

Amount of Estimate Rs 5 5

The bund of the tank is in good condition. It is 5' wide at top with side slopes $1\frac{1}{2}:1$ and 3' height above M. W. L. The Estimate provides a lump sum for filling up the erosions.

Surplus arrangement. There is at present a Calingulah 28' long. Its effective length is 24 feet.

Maximum flood discharge $= C M^{2/3} - c\, m^{\frac{2}{3}}$

$= 450(2\frac{1}{2}^{2/3}) - 90(1\frac{1}{2}^{\frac{2}{3}})$.

$= 828 - 118 = 710$ cft per second.

Discharge over existing weir 221 cft. The remainder is 489 cft. The Length of Byewash required to discharge 489 cft is 74 ft —

Executive Engineer
Ganjam Division

45 Gr
14

On E.16
6502/57

5 Report to accompany the Estimate for Improvements to Mukuntasagaram tank of Jalantra Zamindary.

Amount of Estimate. Rs. ~~42~~ 47 [illegible]

The bund of the tank is in good condition. A lump sum is provided in the Estimate for filling up the crossings & other low places. The bund ~~is~~ has an average width of 6 feet.

The catchment area of the tank is 3/4 sq mile.

The length of weir required to discharge the surplus with 2' over crest is 40 feet. A Roughstone bywash ~~40~~ 56 ft 40 ft wide feet long has been provided in the Estimate.

K Gopala Aiyar
[illegible]
27/1

W Dehorigas
Exe. Engineer
Ganjam Dt.
P.I.

788

Report to accompany the Estimate for Improvements to Karamana tank of Boorgam.

Amount of Estimate. Rs. 136.

The bund of the tank is at present 6" above M.W.L. It is to be raised to $2\frac{1}{2}$ feet above M.W.L., with 5 feet top width and side slopes $1\frac{1}{2}:1$.

The catchment area of the tank is $\frac{1}{2}$ sq mile. Length of ~~weir~~ escape required to discharge the surplus, with 1.5 feet over crest is $\overset{66}{47}$ feet. The Estimate provides for building a Roughstone byewash $\overset{66}{47}$ feet long with winged Revetment on one side.

H Gopalswamy Aiyar
Overseer
28/1.

T. Macy
Asst. Engineer
28.1.94.

[illegible]

Exe. Engineer
Ganjam Dt.

COLLECTOR
GANJAM
14

45 G/N
9

EXECUTIVE ENGINEER'S OFFICE
P.W.D.
FEB
REGISTER No.
GANJAM DIVISION

Ord. Eng.
6502/97

COL
14

No. 2626 N.

FROM

J.C. Larminie Esquire M.I.C.E.
SUPERINTENDING ENGINEER,
FIRST CIRCLE.

1 P

Enclosures. 43. TO
(Sent by book post)

THE CHIEF ENGINEER
FOR IRRIGATION.

WALTAIR, 11th June 1897.

SIR,

I have the honour to forward herewith plans and Estimates for repairing the Railway affecting tanks as per margin in Mandasa & Jalantra Zemindaries in Ganjam Dt. and to request that you will be so good as to obtain the requisite Sanction of Government for the execution of the same by this Department.

Mandasa Zemindary.	Est Rs.
Ova Tank of Mogrujola	42.
Kotha Tank of Allimerka	46.
Kari Tank of Baligam	41
Pedda Tank of Harkpur	162
Cheeprujola tank of Ambugam	80
Hathibanda Tank of Palavalsa	128.
Jalantra Zemindary.	
Mukundasagaram Tank	47
Kummanna Tank of Borrgam	136
Padmanaba Sagaram Tank	55
Bispoyi Chinna Tank	225 }
Gangasagaram Tank	70 }
Narayana Sagaram Tank	240 }
Total	1272

2. The Collector Ganjam District states in his letter No: 947/vel of 16-5-97 that the owners of these private tanks are not willing to undertake the repairs themselves and that they desire to get them repaired by this Department and to charge them with the costs. The Collector, Ganjam District has already been requested to arrange to recover the Estimated amounts with percentage[×] charges thereon from the parties concerned and to place the same in some Government Treasury

× Rs504 should be Rs312, making a total of Rs 1584

to

$\frac{\text{S. E. I.}}{1}$ 500—29-2-96.

CHIEF ENGINEER
FOR IRRIGATION
18 JUN 1897
45 GN

FROM
SUPERINTENDING ENGINEER,
FIRST CIRCLE.

TO
THE CHIEF ENGINEER
FOR IRRIGATION.

DATED
DESPATCHED
RECEIVED
189 .

No.

ENCLOSURES.

SUBJECT.

to the Credit of this Department.

I have the honour to be,
Sir,
Your Most obedt Servt

J C Larminie
Superintending Engr 1st Circle

11/6

Gh
10/6/97