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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No.	<u>4850</u>	Press.
B.P. No.	<u>W</u>	Mis.
Dated	<u>23-12-1878</u>	<u>197</u>

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4850
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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

23rd December 1878, No. 4,850 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 249. Endorsement of the Acting Under Secretary to Government, Financial Department, dated 9th December 1878, No. 2,257.

Proceedings of the Board of Revenue, dated 18th November 1878, No. 3,067.

From W. S. FOSTER, Esq., President of the Local Fund Boards, Godavari District, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated Cocanada, 26th October 1878, No. 102.

In forwarding herewith a plan and estimate for Rupees 5,100 for the construction of a bridge over Bendada drain on the road from Viravasaram to Akeed via

- 1 Plan. } to be returned.
1 Estimate, }
1 Copy of a letter from the Officer in charge
Western Delta Division, dated 20th June
1878, No. 131.
1 Copy of the Resolution.

Bhimavaram, I have the honor to inform you that it was passed by the Local Fund Board at their meeting held on the 16th July last (copy of the Resolution is herein enclosed). The charge can be met from

the budget allotment of Rupees 5,400 provided for the construction of the road.

2. I therefore request the Board of Revenue will be good enough to obtain the sanction of Government for the same.

ENCLOSURE No. 1.

From Lieutenant A. R. F. DORWARD, R.E., Assistant Engineer, in charge, Western Delta Division, Godavari, to the Superintending Engineer, Godavari District, dated Chellipetti, 20th June 1878, No. 131.

I HAVE the honor to forward herewith a plan and estimate of Rupees 5,100 for constructing a bridge over Bendada drain on the Akeed road.

2. In the original estimate for the road it was intended to pass the drain by widening the left tow-path of the Undi aqueduct.

3. It is now known that this is not advisable, and in the memorandum of the Chief Engineer for Irrigation, No 277, of 11th March 1875, it is stated that no alteration of the aqueduct is feasible.

4. It is necessary therefore to carry the road across the drain at a point below the aqueduct. The present estimate of Rupees 5,100 is in excess of the original estimate, Rupees 2,335, for widening the aqueduct by Rupees 2,765; all work on the road has been finished except this

bridge and its approaches. The following statement shows the original estimate and cost of work done :

	Original Estimate.	Actual Cost.	Saving.
	RS.	RS.	RS.
Earthwork	11,680	10,885	795
Masonry	22,340	16,979	5,361
Compensation for land	930	* 105	825
Total ...	34,950	27,969	6,981

5. The saving under the head Earthwork, Rs. 795, is more than sufficient for the approaches of the bridge, and after deducting the estimated excess of Rs. 2,765 on the present estimate from the saving on masonry there will still remain a very considerable saving on that head. There is not the slightest chance of the total estimate of Rupees 34,950 for the road being exceeded.

6. The bridge as now designed consists of three arches of 18 feet span. The aqueduct has three arches of 16 feet span only, but a surplus weir will discharge into the Bendada drain from the Undi canal between the bridge and aqueduct. The bridge has therefore to have sufficient water-way to pass the discharge of both works at once. The water-way given is slightly more than sufficient for this, and also slightly in excess of the water-way of the drain itself. I have no doubt therefore that the bridge will answer its requirements.

7. I would ask for early sanction to the present estimate to enable the allotment of Rupees 5,400 made for this road in the current year's budget being utilised.

ENCLOSURE No. 2.—Plan.

ENCLOSURE No. 3.—Estimate.

ENCLOSURE No. 4.—Extract from Proceedings of Local Fund Board.

THE revised estimate, amounting to Rupees 5,100, for the construction of a bridge over the Bendada drain on the road from Viravasaram to Akeed *via* Bhimavaram is submitted for the sanction of Government.

2. From the Assistant Engineer's letter, dated 20th June 1878, No. 181, it is observed that the original estimate for the bridge, amounting to Rupees 2,335, formed a portion of the estimate of Rupees 34,950, sanctioned in G.O., Revenue Department, dated 17th March 1869, No. 729, for the construction of the road including bridges, &c., which appears as item No. 3 in Part I of the current year's budget of the Ellore circle.

3. The necessity for the revision of the estimate is explained in the Assistant Engineer's letter above alluded to.

4. The Board note that the excess cost of the bridge is to be met from the savings in the estimate for the road.

(True Copies and Extract.)

(Signed) C. A. GALTON,
Acting Secretary.

TRANSFERRED for disposal to the Public Works Department.

(Signed) H. B. GRIGG,
Ag. Under Secretary to Government.

* Some land has still to be paid for, but the provision of Rupees 930 will not be exceeded.

No. 250. ORDER THEREON, 23rd December 1878, No. 4,850 W.

THE plan and revised estimate of Rupees 5,100, for constructing a bridge over the Bendada drain on the road from Viravasaram to Akeed in the Godavari District, are sanctioned.

2. This sanction has been registered as Local No. 133 B of 1878-79.

(True Extract.)

Colonel, R.E.,
Secretary to Govt., P.W.D.

4850
2

To the Superintending Engineer, First Circle.
" Examiner of Public Works Accounts.
" Financial Department.

Exd. E. C. Shunker,
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Gobt. of (1878) Madras.
PUBLIC WORKS.

THE SUPERINTENDING ENGINEER,
FIRST CIRCLE,
&c., &c., &c.

Dated December 23rd.

Issued

Recd.

Encl.

G. O., 23rd December 1878, No. 4,850 W.

DECEMBER.
Nos. 249-250.

Bridge over the Bendada Drain, Godavari
Revised estimate for the construction of
the same sanctioned.

No. 3,067.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 18th November 1878.
Read the following letter from W. S. FOSTER, Esq., President of the Local Fund
Boards, Godavari District, to C. A. GALTON, Esq., Acting Secretary to
the Board of Revenue, dated Cocanada, 26th October 1878, No. 102:—

IN forwarding herewith a plan and estimate for Rupees 5,100 for the construc-
tion of a bridge over Bendada drain on
the road from Viravasaram to Akeed vid
Bhimavaram, I have the honor to inform
you that it was passed by the Local Fund
Board at their meeting held on the 16th
July last (copy of the Resolution is herein
enclosed). The charge can be met from
the budget allotment of Rupees 5,400 provided for the construction of the road.

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sanction of Government for the same.

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From Lieutenant A. R. F. DORWARD, R.E., Assistant Engineer, in charge Western Delta
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20th June 1878, No. 131.

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ing a bridge over Bendada drain on the Akeed road.

2. In the original estimate for the road it was intended to pass the drain by widening the
left tow-path of the Undi aqueduct.

3. It is now known that this is not advisable, and in the Memorandum of the Chief Engi-
neer for Irrigation, No. 277, of 11th March 1875, it is stated that no alteration of the aqueduct is
feasible.

4. It is necessary therefore to carry the road across the drain at a point below the aqueduct.
The present estimate of Rupees 5,100 is in excess of the original estimate, Rupees 2,335, for
widening the aqueduct by Rupees 2,765; all work on the road has been finished except this
bridge and its approaches. The following statement shows the original estimate and cost of
work done:—

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Compensation for land	930	* 105	825
Total ...	34,950	27,969	6,981

* Some land has still to be paid for but the provision of Rupees 930 will not be exceeded.

5. The saving under the head earthwork, Rs. 795, is more than sufficient for the approaches
of the bridge, and after deducting the estimated excess of Rs. 2,765 on the present estimate from
the saving on masonry there will still remain a very considerable saving on that head. There
is not the slightest chance of the total estimate of Rupees 34,950 for the road being exceeded.

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three arches of 16 feet span only, but a surplus weir will discharge into the Bendada drain from
the Undi canal between the bridge and aqueduct. The bridge has therefore to have sufficient
water-way to pass the discharge of both works at once. The water-way given is slightly more
than sufficient for this, and also slightly in excess of the water-way of the drain itself. I have
no doubt therefore that the bridge will answer its requirements.

7. I would ask for early sanction to the present estimate to enable the allotment of Rupees
5,400 made for this road in the current year's budget being utilized.

(True Copy.)

(Signed) G. T. WALCE,
Acting District Engineer.

ENCLOSURE No. 2.—Plan.

ENCLOSURE No. 3.—Estimate.

ENCLOSURE No. 4.—Extract from Proceedings of Local Fund Board.

THE revised estimate, amounting to Rupees 5,100, for the construction of a bridge over the Bendada drain on the road from Viravasaram to Akeed via Bhimavaram is submitted for the sanction of Government.

2. From the Assistant Engineer's letter, dated 20th June 1878, No. 131, it is observed that the original estimate for the bridge, amounting to Rupees 2,335, formed a portion of the estimate of Rupees 34,950, sanctioned in G.O., Revenue Department, dated 17th March 1869, No. 729, for the construction of the road including bridges, &c., which appears as Item No. 3 in Part I of the current year's budget of the Ellore Circle.

3. The necessity for the revision of the estimate is explained in the Assistant Engineer's letter above alluded to.

4. The Board note that the excess cost of the bridge is to be met from the savings in the estimate for the road.

(True Copies and Extract.)

Acting Secretary.

To the Chief Secretary to Government, Financial Department,
with three enclosures to be returned.

Copy to the President of the Local Fund Board, Godavari District.

" " District Engineer, Godavari.

" " Examiner of Public Works Accounts.

Exd. W. J. Lewis.

Bridge — over the Bendada drain on the road from Viravasaram to Akeed via Bhimavaram, in Godavari District. — Submitting for sanction of Government revised estimate for the construction of a —

NOVEMBER.

No. 3,067.

PROCEEDINGS, 18TH NOVEMBER 1878, No. 3,067.

Printed 23th.

Dated November 18th.

THE CHIEF SECT. TO GOVT.,
FINANCIAL DEPARTMENT,

MADRAS.

Board of Revenue.

1878.

Copy of the Resolution No. 6 of the Local Fund Board
of the Ellore Circle at a meeting held at Ellore
on the 16th July 1878.

Present.

Lieut. A. M. F. Doward. M.E. Officer in charge of
the Western Delta Division, & Presiding Member.

Members.

H. S. Taylor Esq., Officer in charge of the
Ellore Division.

R. Sanjiv Rao Parthasarathy, Dy. Superintendent of Ellore.

Rev. Fr. A. Alexander.

J. Ramakrishna Sastry.

Res. 6. Read District Engineer's letter No. 131
of 29th June 1878, forwarding a plan and
estimate for Rs. 5,100 for a bridge over Bendada
Drain on the Mad Road. Sanctioned.

(True Copy)

Via Resident

GODAVERY DELTA SYSTEM.
WESTERN SECTION.

Main Head.

Name of work. Constructing Bridge on Aced Road over Bondada Drain.

No.	L.	B.	D.	Contents.	Description of work.
					<u>Bondada</u> 4850
					5
1	74-0	19-0	2-0	2812-0-0	Under abutments, piers and floors
2	6-6	3-6	2-0	91-0-0	Levees
2	2-11	7-1 $\frac{1}{2}$	2-0	83-1-6	Wings in front
2	16-10 $\frac{1}{2}$	6-7	2-0	444-4-6	Returns in Dr.
2	2-11	7-0	2-0	81-8-0	Wings in rear
2	17-7	6-7	2-0	463-0-4	Returns in Dr.
3	12-6	12-0	0-6	225-0-0	Over arches
				1200-2-4	Total concrete cubic feet
					<u>Pubk</u>
1	72-0	17-0	1-6	1836-0-0	Under abutments, piers, and floors
2	4-6	3-6	1-6	47-2-0	Levees
2	4-11	5-1 $\frac{1}{2}$	1-6	75-7-1	Wings in front
2	14-10 $\frac{1}{2}$	4-7	1-6	204-6-4	Returns in Dr.
2	4-11	5-0	1-6	73-9-0	Wings in rear
2	18-7	4-7	1-6	214-3-3	Returns in Dr.
					<u>Superstructure</u>
2	16-0	5-0	9-0	1440-0-0	Abutments
2	16-0	3-6	9-0	1008-0-0	Piers
2	16-0	4-6	1-3	180-0-0	Shaw brackets abutments
2	16-0	2-6	1-3	100-0-0	Dr. Dr. to Piers
2	12-0	5-0	1-6	180-0-0	Backing Over abutments
2	12-0	3-3	1-0	78-0-0	
2	3-0	2-0	1-3	15-0-0	
				5452-4-8	Carried Over

7/6/7
1869
July 1869

No.	L.	B.	D.	Contents.	Description of work.
-----	----	----	----	-----------	----------------------

				5452-4-8	Brought over
2	12-0	5-0	2-0	240-0-0	Handrails over piers
2	6-8 1/2	3-0	12-0	483-0-0	Wing walls in front
2	13-9	2-9 1/2	9-6	729-3-10	Retains in Do
2	6-8 1/2	3-0	12-0	483-0-0	Wing walls in rear
2	13-9 1/2	2-9 1/2	9-6	731-6-4	Retains in Do
1	65-0	2-0	4-3	552-6-0	Face wall in front
1	70-0	2-0	4-3	595-0-0	Do in rear
1	65-0	1-6	1-9	170-7-6	Parapet in front
1	65-0	1-7	0-9	77-2-3	
1	74-0	1-6	1-9	183-9-0	Parapet in rear
1	70-0	1-7	0-9	83-1-6	
				781-5-1	Deduct as per details shown below
				1337-5-1	
				5444-0-0	Net total rubble cubic feet

Deductions

6	area			5520-0-0	Segmental spaces from face walls
	46	2		785-5-1	all cutstone except cutwaters & facing of arches & projections of piers
				1337-5-1	Total Deductions from rubble

Cutstone

2	1-0	3-6	8-6	59-6-0	Ends of piers near cutwaters
2	16-0	3-6	0-6	56-0-0	Top of piers
2	16-0	2-6	0-6	40-0-0	Do of abutments
2	area			171-0-0	cutwaters
	9-6		9-0		
2	3-6	1-9	0-3	3-0-9	Caps to Do
3	16-0	2-6	1-3	100-0-0	Skew back to piers
2	16-0	2-3	1-3	90-0-0	Do to abutments
2	22-6	2-0	0-9	67-6-0	Coping to wings & returns in front
2	22-0	2-0	0-9	66-0-0	Do Do in rear
				652-0-9	Carried over

GODAVERY DELTA SYSTEM WESTERN SECTION.

6850
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Detailed Estimate continued

No.	L.	B.	D.	Contents.	Description of work.
				553-0-9	Brought over
1	65-0	1-7	0-9	77-2-3	Coping to parapet in front
1	70-0	1-7	0-9	83-1-6	Do Do in rear
1	129-0	2-0	0-9	193-6-0	Cornice in front and rear
6	20-4	1-0	1-6	183-0-0	Facing to arches
				442-10-6	Total cutstone cubic feet
3	20-4	14-0	1-6	1281-0-0	Archwork in front (segmental)
3	19-0	14-0		798-0-0	Plastering soffit of arches
					Dressing faces
2	16-0	-	8-6	272-0-0	Faces of abutments
2	1-0	"	8-6	17-0-0	Ends of Do
2	33-6	"	8-6	569-6-0	Faces & ends of piers
2	7-6	"	11-3	168-9-0	Do of wings in front
2	2-0	-	8-9	35-0-0	Do Returns in Do
2	11-0	"	4-6	99-0-0	Do Wings in rear
2	7-6	"	11-3	168-9-0	Do Returns in Do
2	2-0	"	8-9	35-0-0	Do
2	11-0	"	4-6	99-0-0	Do
1	21-0	"	3-6	73-6-0	Face wall in front
2	8-6	"	1-6	25-6-0	Do
1	32-0	"	3-6	112-0-0	Face wall in rear
1	65-0	"	3-6	227-6-0	Sides of Parapet in front
1	70-0	"	3-6	245-0-0	Do Do in rear
	1-6	"	1-9	10-6-0	Ends of parapets
				2158-0-0	Total cutstone cubic feet

ARL

Ms. A. 9.2.10.70

1850/52

39 R
C. Wallo

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

THE MADRAS GOVERNMENT.
UNDER date the 23/12 1904 850 W.

Read the following :—

The plan and re-
vised estimate of Ru-
pees 5000 for constructing
a Bridge over ^{the} Bendala
Drain on the Road from
Viravasarani to Akked
in the Gadavari District
are sanctioned. W

ed UK
20.12.71

S. Ings. First Circle of
by 2 Mr. and W. H. and Bethele
First Dept 5

Def: 11-1-79-

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13796

Gobt. of (1878) Madras.

PUBLIC WORKS

The Supply & Demand Circle

Dated 24
Issued
Recd. Encl.

G. O., 23 Decr 1878, No. 40504

Nos. 249-250

Bridge over the Bandala
Drain - Gokavari

Revised estimate for
the construction of the
same

12