Public Works (1896) Department.

G.O., No. 4310

Dated 14-5-96

[Despatch Abstract.]

Godavari river bank. Estimates aggregating Rs 3,360 and Rs 4,600, respectively, for diverting the — above anicut and the Vrudha Gowtami drain at Mettalanka, sanctioned.

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.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated May, 14*th*.

Read. *Encl.*

G.O. No. 431 I., 14th May 1896.

MAY.

Godavari River Bank

Estimates aggregating Rs. 3,360 and Rs. 4,600, respectively, for diverting the above anicut and the Vriddha Gowtami drain at Mettalanka, sanctioned.

No. 431 I., 14TH MAY 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper :—

From W. C. DEMORGAN, Esq., Executive Engineer in charge, I Circle, to the Chief Engineer for Irrigation, dated Central Delta, 23rd March 1896, No. 2943 G.D.

I have the honour to submit, herewith, the following estimates, received from the officers in charge of Gódávari Western and Central Divisions, and to request that you will be good enough to obtain sanction of Government to the same.

2. The necessity for the works has been explained in the reports which accompany the estimates.

3. The estimates have been countersigned by the Collector.

Gódávari Western Division.

	RS.
Diversion of right bank of Aganda Gódávari at 20 miles 4 furlongs above anicut	1,900
Diversion of right bank of Aganda Gódávari at 19 miles 6 furlongs above anicut	1,460

Gódávari Central Division.

Diversion of Vriddha Gowtami drain at Mettalanka	4,600

ENCLOSURES.

REPORT to accompany the estimate for diverting the right bank of Aganda Gódávari at 20 miles 4 furlongs above anicut.

	RS.
Estimate	1,900

The river margin at 20/3½ has been gradually cutting close to the river bank. It is hardly 6 feet wide between the foot of the river bank and steep margin ; it is now in a dangerous position, although there is no set actively working against this portion of the bank yet — one slip of the margin during floods will carry away a portion of the river bank. It is therefore proposed to divert the bank from the 4th furlong in 21st mile and join it to the angle of old diversion bank at a distance of 900 feet. The centre of the proposed bank of the dangerous portion will be at 75 feet from the centre of the existing bank.

No land is available on east side for digging pits unless the existing bank is removed ; all the earth required for the new bank to be obtained from one side, viz , on west side. The average sectional area of the new bank being 500 square feet, the land required for pits on west side is 110 feet, of which 70 feet wide will be permanently required to dig pits of 6 feet deep. and the rest 40 feet temporarily to dig pits 2 feet deep. Land statement is accordingly prepared.

(Signed) G. VENKATA RAU PANTULU,
Assistant Engineer.

17th February 1896.

REPORT to accompany the estimate for diverting the right bank of Aganda Gódávari at 19 miles 6 furlongs above anicut.

	RS.
Estimate	1,460

The upper margin of the river has been cutting away gradually close to the foot of the bank having only 10 feet margin. There is no natural set against the bank at this place; but the plantation annually made on the opposite sand shoal in the river bed by Gotala zemindar's diverting the force of the stream towards the river bank, thus causing a set against the bank and gradually cutting away the upper and lower margin. There is broad lower margin of oil clay of 100 feet wide, about 30 feet below the upper margin, and the deep bed of the river at 180 feet from the water edge is 34 feet deep below the lower margin. The space between the foot of the bank and the edge of the upper margin at C.S. No. 3 being only 10 feet, it is feared that one slip during floods may carry away a part or the whole of the river embankment at this point. It is therefore proposed to divert the river bank at this place from near 19 miles 5 furlongs to beyond 19 miles 6 furlongs, a length of 662 feet, and the space from centre of the existing embankment to centre of the proposed bank at C.S. No. 3 will be 93 feet.

(Signed) G. VENKATA RAU PANTULU,
Assistant Engineer.

22nd February 1896.

REPORT to accompany estimate for diversion of Vriddha Gowtami drain at Mettalanka.

	Rs.
Estimate	4,600

The accompanying sketch of Vriddha Gowtami drain shows that a short distance above its mouth, it makes a big loop about 2 miles long; so that the proposed diversion, although only 1,600 feet long, will shorten the length of the drain by no less than 1¼ miles.

2. The available surface fall in the drain being exceedingly small (only ·20 foot per mile), any improvement that will increase this fall at a reasonable cost is highly desirable.

3. The level of the floor of Vriddha Gowtami under-tunnel is — 3·50, and the diversion will begin and end at about 66 and 47 chains, respectively, above the under-tunnel.

The area to be drained is 30 square miles, which, with Ryves' formula and the usual deltaic co-efficient of 80, gives a required discharge of 772 cubic feet per second. The proposed bed with of 40 feet, with side slopes to 1 to 1 and maximum depth 10½ feet, will give this discharge.

(Signed) W. J. J. HOWLEY,
Assistant Engineer.

ORDER—No. 431 I., dated 14th May 1896.

The following estimates are sanctioned:—

Irrigation.
43. Minor works and Navigation.
Agricultural Works.
Original Works.

Gódávari Western Division.

	Rs.
1. Diversion of right bank of Aganda Gódávari at 20 miles 4 furlongs above anicut	1,900
2. Diversion of right bank Aganda Gódávari at 19 miles 6 furlongs above anicut	1,460
Gódávari Central Divisn.	
3. Diversion of Vriddha Gowtami drain at Mettalanka	4,600

2. This sanction is registered as No. 35 I. of 1896–97.

(True Extract.)

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

To the Chief Engineer for Irrigation.
" Superintending Engineer, I Circle, with twelve enclosures.
" Examiner, Public Works Accounts.
" Revenue Department.

Exd. T. R. Narayana Aiyangar.

Spare Copies

A

No. 431 I dy 14-May 1896

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Postponed 5

UNDER date the

READ the following

From Supt Engr, 1st Circl, No. 2943-4 23. 3.96

The following estimates are sanctioned:—

Irrigation
43. Minor works Navigation
Agricultural Works.
Original Works.
Godavari Western Dn
1. Diversion of right bank of Aganda Godavari at 20 miles 4 furlongs above anicut . . Rs 1,900
2. Do. do. at 19 miles 6 furlongs above anicut . . 1,460
Godavari Central Dn
3. Diversion of Vridha Gowtami drain at Mettalanka. 4600
2. This sanction is registered as No. 1 of 1896-97.

Revds 4/5

DESPATCHED
29 MAY. 96

To
The Chief Engr for I.
Supdg Engr 1st Circle with 12 encls.
Sr F. 452
Rev Dept
CCS 115 BR

FROM W. C. Dechmorgan Esq.

~~THE~~ SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER

FOR IRRIGATION.

MADRAS.

CHIEF ENGINEER FOR IRRIGATION. 30 MAR 96 No.

DATED 23rd March 1896

DESPATCHED 27th

RECEIVED

No. 2943 G.D.

ENCLOSURES. 15

SUBJECT.

Diversion of right-bank of Akhanda Godavari at 19 m. 6 fr. and 20 m. 4 fr. above Kuccud — and of Vridha Gowtami drain at Metta Lanka — Submits Estimates for — for sanction.

P. W. CURRENT No. 4450

Encls 15 (6 plans)

Acc: 13: 5-96

E. I. Form No 1—1,000—27-11-95.

8158

Index slip No 9

1902

Report to accompany the Estimate for diverting the ~~river embankment between~~ right bank of Uganda 20 miles 4 furlongs above Kanikat ~~20 miles and 20 ft from Kisimaroon to Kolomaroon~~ Godaveri at

Estimate Rs 1900.

38

6 MAR 96
SECRETARIAT

The River Margin at 20-3½ has been gradually cutting close to the river bank. It is hardly 6 feet wide between the foot of the river bank and steep margin; it is now in a dangerous position although there is no set actively working against this portion of the bank yet one more slip of the margin during floods will carry away a portion of the river bank. It is therefore proposed to divert the bank from the 6th furlong in 21 ft. mile and join it to the angle of old diversion bank at a distance of 900 feet. The Centre of the proposed bank of the dangerous portion will be at 75 feet from the centre of the existing bank.

No land is available on east side for digging pits unless the existing bank is removed; all the earth required for the new bank to be obtained from one side viz on West side. The average sectional area of the new bank being 500 Sq. ft, the land required for pits on West side is 110 ft. of which 70 ft. wide will be permanently required to dig pits of 6 ft. deep and the rest 40 ft. temporarily

6 dig pits 2 ft deep. Land Statement is accordingly prepared.

signed G. Venkatarao
Asst. Engr

Executive Engineer
17/2

17-2-96

6578
9

Dia c.6
6450/96

Index No 4 1903

Report to accompany the Estimate for Diverting the Right bank of Akkanda Godavari at 6 m. 6 f. above anicut, Estimate Rs 1460.

4 SP

—

The upper margin of the River has been cutting away gradually close to the foot of the bank leaving only 10 margin. There is no natural set against the bank at this place but the plantation annually made on the opposite Sand shoal in the river bed by Gutala Zamindars, diverting the force of the stream towards the river bank thus causing a set against the bank and gradually cutting away the upper and lower margin. There is a broad lower margin of oil clay of 100 ft wide about 30 ft below the upper margin and the deep bed of the river at 130 ft from the water edge is 34 ft deep below the ~~lower~~ margin. The space between the foot of the bank and the edge of the upper margin at C.S. No 3 being only 10 ft, it is feared that one slip during floods may carry away a part or the whole of the river embankment

to at this point. It is therefore proposed to
revet the river bank at this place from
near (9m 5 fur to beyond 9m 6 f
a length of 662 ft and the space from
Centre of the existing embankment to centre
of the proposed bank at C. S. No 3 will
be 93 ft.

(Sd) G. Venkata Row
Asst Engineer
22-2-96

(True Copy)

E. H. Dawk
Executive Engineer
22-2-96

Ahmed
Executive Engineer in charge
1st circle
5.3.96

Dr E.I
4450/86

Report 1904 5 80
to accompany Estimate for
Diversion of Vriddha Gowtami
Drain at Mettalanka
Estimate Rs. 4600.

The accompanying sketch of Vriddha Gowtami Drain shows that a short distance above its mouth it makes a big loop about 2 miles long; so that the proposed diversion, although only 1300' long, will shorten the length of the drain by no less than 1 3/4 miles.

2. The available surface fall in the drain being exceedingly small (only .20 ft per mile) any improvement that will increase this fall at a reasonable cost is highly desirable.

3. The level of the floor of Vriddha Gowtami mediumal is - 3.50

to [illegible] and the diversion will be given at about 66 and 47 chains respectively above the under tunnel.

The area to be drained is 30 square miles, which, with Ryves' formula & the usual deltaic coefficient of 80, gives a required discharge of 772 cft per sec. The proposed bed width of 40' with side slopes 1 to 1½ & maximum depth 10½ ft will give this discharge —

[illegible]
Asst Engineer

No. 2943

Recd
Executive Engineer in charge 1st Circle
Dated 5 March 1896

CHIEF ENGINEER FOR IRRIGATION
30 MAR 96
No. 2943

No. 2943 G.D. Recd

From

W. C. De Morgan Esqr.
Exve Engineer in Ch 1st Circle

To

Encls. 15.

The Chief Engineer for Irrigation
Madras.

Camp Deltaic Dy 23. 3. 96.

Sir,

I have the honour to submit herewith the following estimates received from the Officer in charge of Godavari W. Eastern and Central Divns and to request that you will be good enough to obtain Sanction of Government to the same.

2. The necessity for the works has been explained in the reports which accompany the estimates.

3. The Estimates have been Countersigned by the Collector.

Godavari Western Dn

Diversion of right bank of Itgandi Body at 20 miles 4 furlongs above anicut Rs 1900

Do Do at 19 m. 6 fur above anicut " 1460

Godavari Central Dn

Diversion of Vridha Bowtanny drain at Meltalanka " 460

FORWARDING SUMMARY

Skaw Rd London Dlr
Sir,
Your Mandate of 87
per Dunrogan
23/3
Re Engineer in Ch 1st Class

E&O 2613

R5758