Public Works (1898) Department.

G.O., No. 41-2 I

DATED 18 January 1898.

6/1/98

[Despatch Abstract.]

Yenamaduru drain: Approving an estimate of Rs. 1,05,500 for excavating a short cut on — to Naidupalem Yeru in Godavari Western Dn. and directing that a copy of the Pros: be forwarded to the Govt. of India with request that sanction may be accorded by wire, to the the excavation of the short cut

=

Yenamaduru drain: forwarding copy of Pros; requesting the sanction of the Govt. of India by wire, to the excavation of the proposed short cut on ~~[illegible]~~ — to Naidupalem Yeru in Godavari Western Dn.

=

D/ 18-1-98

P.W. 26
500—30-11-96

Indexed.

1

BACK PAPERS

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

FURTHER PAPERS

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

IRRIGATION.
ACCOUNT.

Government (1898) of Madras.
PUBLIC WORKS.

Recd. } 1898. *Enclosures*
Regd. *Spare copies*

G.O., Nos. 41, 42 I., 18th January 1898.

JANUARY.

Yenamadurru Drain

Forwarding copy of Proceedings requesting the sanction of the Government of India, by wire, to the excavation of the proposed short cut on — to Naidupalem yeru in Gódávari Western division.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers:—

From the Superintending Engineer, I Circle, dated 28th April 1896, No. 190 G.D.
„ „ I „ „ 4th August 1896, No. C./141.
To the Collector of Gódávari, dated 12th August 1896, No. 76 G.D.
From „ „ „ 20th January 1897, No. 262/Ver.
To the Superintending Engineer, I Circle, dated 16th February 1897, No. I./28 G.D.
From „ „ I „ „ 1st October 1897, No. 1222 G.D.
To „ „ I „ „ 8th November 1897, No. I./173 G.D.

From J. C. LARMINIE, Esq., M.I.C.E., Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, dated Camp Dowlaishweram, 19th November 1897, No. 1482 G.D.

In reference to your memo., No. I./173 G.D. of 10th November 1897, I have the honour to state, in resubmitting the estimates, that the proposed slight deviation of the drain will not, as stated in paragraph 3 of the Executive Engineer's report, cause any material difference in the estimate. It may be as well, however, to allow Rs. 500 for dredging in case it should be necessary, and Rs. 1,000 may be included for baling. So, if you approve, these additions may be made in your office.

It would be a great advantage, could funds be allotted for execution of the work during the coming season.

Enclosures.

Report to accompany the estimate for excavating short cut of Yenamadurru drain to Naidupalem yeru.

	RS.
Amount of estimate	86,300

The proposed short cut of Yenamadurru drain is from the bend at Dirusumarru to the branch creek between Gullapad and Naidupalem as shown in survey plan. The straight cut would reduce the length of the drain by 10 miles, and would probably pay directly by enabling 2,000 acres of land now waste to be cultivated. It would most certainly pay indirectly. Above the cut considerable damage is yearly done to crops owing to floods.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE. 49. Irrigation. *Gódávari Delta System.* Western Section. Open Capital Account. I. Works. (4) Drainage and Protective works. Yenamadurru drain. Unremunerative Work. Excavating a short cut on Yenamadurru drain to Naidupalem yeru.	RS.	RS.	RS.	RS.
2. Land	(1) Compensation for land	3,000	3,000		
4. Earthwork ..	(2) Excavating drain	81,620	81,620		
5. Miscellaneous ..	(3) Demarcation stones	180	180		
	Add for baling and dredging ..	1,500	1,500	86,300	86,300
	II. Establishment ..	..	..	..	19,159
	III. Tools and plant ..	..	..	..	41
	Total Estimate ..	..	..	..	1,05,500

(Signed) L. L. WICKHAM,
Ex. Engr., Gódávari Western Division.

16th April 1896.

Telegram from the Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, dated Waltair, 8th December 1897.

This office number 1482 G.D. of 10th ultimo please obtain permission to start Yenamadurru drain work in anticipation of sanction.

Telegram from the Chief Engineer for Irrigation, to the Superintending Engineer, I Circle, dated 9th December 1897, No. 82.

Pending Government of India sanction to Yenamadurru drain estimate and allotment of funds, work cannot be started.

No. 290 I.

Note by the Chief Engineer for Irrigation.

The Yenamadurru drain is the largest of its kind in the Gódávari Western delta, and is the duct through which the Yerrakalva, which drains the upland taluk of Yernagudem, discharges its waters to the sea. Owing to the tortuous nature of this drain, serious backing up of water during seasons of floods ensues, and much irrigated land is flooded for unduly lengthened periods, causing loss of crop and of revenue by remissions thereon. To mitigate this long-standing evil, the Superintending Engineer, I Circle, in April 1896, submitted an estimate amounting to Rs. 85,580, or Rs. 1,05,000 including establishment and tools and plant charges, for making a straight cut in the Yenamadurru drain. It was stated that the scheme would probably pay directly by enabling 2,000 acres of waste land being brought under cultivation.

2. Sufficient particulars not having been furnished for sanctioning such an expensive undertaking, further information was required and the opinion of the Collector of Gódávari requested with reference to remissions of revenue due to lands being flooded.

3. In a letter, dated 4th August 1896, the Superintending Engineer reported that it could not be shown that the cut would yield a direct return, but considered that the proposal would result in considerable indirect benefit to the Bhímavaram taluk and that, after the large sums spent on irrigation for that part of the country, it would be a pity not to render the same as effective as possible. He recommended the estimate being sanctioned as necessary for the full development of the Gódávari delta system. He also suggested increasing the fall of the cut to 6 inches per mile.

4. The Collector, in considering the proposed work a desirable one, recommended the cut being carried out on the ground of the relief that would be effected from the annual flooding of a large area of land. The Deputy Collector, while of opinion that the extent of relief to be expected cannot be exactly ascertained, reports that the Tahsildar has roughly estimated that nearly 14,086 acres may be protected from partial loss of crop by the proposal, and that 4,200 acres of both occupied and Government waste may probably be brought under cultivation, if sufficient and timely supply of water can be assured.

5. Further inquiries were then made of the Superintending Engineer regarding the bedfall and section of the cut, the rate of Rs. 25 per acre for land compensation, the method of disposing of the spoil and information as to the extra cultivation anticipated as a result of the proposed work.

6. With his endorsement, No. 1222 G.D. of 1st October 1897, the Superintending Engineer submitted a report by Mr. Marshall, the Assistant Engineer in charge, Gódávari Western division, in which it is shown that the width of the cutting provided for is sufficient, and that the rate for land, Rs. 25 per acre, is the approximate valuation by the Deputy Collector. Mr. Marshall doubted if more than 1,000 acres of new land could be irrigated until the distribution in the upper delta was improved.

7. As Mr. Marshall suggested an improvement in the alignment of the lower end of the drain, the Superintending Engineer was asked, in this office memo., No. I./173 G.D., dated 8th November 1897, to complete and submit the estimates for sanction, the section provided for having been accepted.

8. The Superintending Engineer now resubmits the estimate for Rs. 84,800, as the alteration in alignment, it is said, will not cause any material difference in the estimate. He suggests, however, that Rs. 1,500 be added to the estimate for dredging and baling which has been done in this office, the estimate being increased to Rs. 86,300, or Rs. 1,05,500 including establishment and tools and plant charges.

9. The estimate is recommended for sanction and the work classed as "unremunerative," as it is not directly remunerative in itself, but being necessary for the system, can justly be charged to "Capital." The work is likely to be completed by the 31st March 1901.

10. No provision has been made for the work in the statement of requirements under "49. Capital expenditure not charged to Revenue" submitted to the Government of India with endorsement, No. 1107 I., dated 9th December 1897. As the Superintending Engineer requests permission to start the work in anticipation of sanction, it is suggested that the Government of India may be requested to communicate its sanction, by wire, to the estimate. In his schedule of demands for the current year, the Superintending Engineer applied for Rs. 40,000 for this work, which was not sanctioned.

9th December 1897.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

Order—No. 41 I., dated 18th January 1898.

The estimate amounting to Rs. 86,300, or Rs. 1,05,500 including establishment and tools and plant charges, for excavating a short cut on Yenamadurru drain to Naidupalem yeru in the Gódávari Western division, is approved.

2. Ordered that a copy of these Proceedings, together with the estimate for the work, be forwarded to the Government of India with a request that sanction may be accorded, by wire, to the excavation of the proposed short cut, under "49. Capital expenditure not charged to Revenue," Gódávari delta system, Open Capital Account.

[Here enter No. 42 I., dated 18th January 1898.]

(True Extract.)

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

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

Endorsement—No. 42 I., dated 18th January 1898.

Forwarded.

(By order.)

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

Exd. T. K. Narayana Aiyangar.

His Excellency the Governor
The Hon'ble Sir Henry Stokes KCSI
The Hon'ble Mr. Grose CIE

Public Works Department
Current Number 12/27

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

for a [illegible] 105,500 for constg a short cut on the [illegible] to Natupalem [illegible]
Recd 30-12-97

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

From the Supg. Engineer, First Circle (H.E. No. 190-G.D., dated 28.4-96).
From — do — do — (H.E. No. $\frac{C}{141}$ dated 4.8-96).
To the Collector of Godavari. — (H.E. No. 76-G.D. dated 12.8-96).
From — do — do — (H.E. No. $\frac{262}{Ver.}$ of '97 dated 20.1-97).
To the Supg. Engineer, First Circle. (H.E. No. $\frac{II}{28\text{-}G.D.}$ dated 16.2-97).
From — do — do — (H.E. No. 1222-G.D. dated 1.10-97)
To — do — do — (H.E. No. $\frac{I}{173\text{-}G.D.}$ dated 8.11-97).
From — do — do — (H.E. No. 1482-G.D. dated 19.11-97).
Telegram from — do — do — (H.E. telegram dated 8.12-97).
— do — to — do — do — (H.E. — do — No. 82 — do — 9.12-97).

From with report & classified abstract estimate.

Irrigation
Government

Note by the Chief Engineer for Irrigation
No. 290 Irr 9.12-97

The Yenamadurru drain is the largest of its kind in the Godavari Western delta, and is the duct through which the Yerrakalava, which drains the upland taluq of Yernagudem, discharges its waters to the sea. Owing to the tortuous nature of this drain, serious ~~[illegible]~~ backing up of water during seasons of floods ensues, and much irrigated land is flooded for unduly lengthened periods, causing loss of crop and of revenue by remissions thereon. To mitigate this longstanding evil, the Superg. Engineer

First Circle, in April 1896, submitted an estimate amounting to Rs. 85,580, or Rs. 1,05,000 including Establishment and Tools & plant charges, for making a straight cut in the Yenamadurru drain. It was stated that the scheme would probably pay directly by enabling 2000 acres of waste land being brought under cultivation.

× vide letter flagged J.

2. Sufficient particulars not having been furnished for sanctioning such an expensive undertaking, further information was required and the opinion of the Collector of Godavari requested with reference to remissions of revenue due to lands being flooded.

⊗ vide letter flagged K

3. In a letter dated 1st August 1896, the Supg. Engineer reported that it could not be shown that the cut would yield a direct return but considered that the proposal would result in considerable indirect benefit to the Bhimavaram taluq and that, after the large sums spent on irrigation for that part of the country it would be a pity not to render the same as effective as possible. He recommended the estimate being sanctioned as necessary for the full development of the Godavari delta system. He also suggested increasing the fall of the cut to 6" per mile.

* flagged L.

4. The Collector, in considering the proposed work, a desirable one, recommended the cut being carried out on the ground of the relief that would be effected from the annual flooding of a large area of land. The Deputy Collector, while of opinion that the extent of relief to be expected, cannot be exactly ascertained, reports that the Tahsildar has roughly estimated that nearly 14,086 acres may be protected from partial loss of crop by the proposal, and that 4,200 acres of both occupied and Government waste may probably be brought under cultivation, if sufficient and timely supply of water can be assured.

× vide Indt. flagged S

5. Further inquiries were then made of the Supdg. Engineer regarding the bed-fall and section of the cut, the rate of Rs. 25 per acre for land compensation, the method of disposing of the spoil and information as to the ~~2,000 acres of~~ extra cultivation anticipated

⊗ vide memo flagged O.

anticipated as a result of the proposed work.

6. With his endorsement× No. 1222-G.D. of 1st October 1897 the Supg. Engineer submitted a report by Mr. Marshall, the Assistant Engineer in charge, Godavari Western division, in which it is shown that the width of the cutting provided for is sufficient, and that the rate for land, Rs. 25 per acre, is the approximate valuation by the Deputy Collector. Mr. Marshall doubted if more than 1000. acres of new land could be irrigated until the distribution in the upper delta was improved.

× flagged S. in G.O. 20
296-7 I Dy 6 4 98

7. As Mr. Marshall suggested an improvement in the alignment of the lower end of the drain, the Supg. Engineer was asked, in this Office Memo. No. I/173-G.D.⊗ dated 8th November 1897, to complete and submit the estimates for sanction, the section provided for having been accepted.

⊗ flagged M.

8. The Superg. Engineer now re-submits× the estimate for Rs. 84,80. as the alteration in alignment, it is said, will not cause any material difference in the estimate. He suggests, however, that Rs. 1,500 be added to the estimate for dredging and baling which has been done in this Office, the estimate being increased to Rs. 86,300 or Rs. 105,500, including Establishment and tools and plant charges.

× vide letter flagged R.

9. The estimate is recommended for sanction and the work classed as "unremunerative", as it is not directly remunerative in itself, but being necessary for the system, can justly be charged to "Capital". The work is likely to be completed by the 31 March 1901.

10. No provision has been made for the work in the statement of requirements under "49, Capital Expenditure not charged to Revenue" submitted to the Government of India with endorsement No. 1107-I, dated 9th× December 1897. As the Superg. Engr. requests⊗ permission to start the work in anticipation of sanction, it is suggested

× In press

⊗ vide telegram flagged Q.

E. I. Form No. 1 (a)—350—1-11-97.

suggested that the Government of India
may be requested to communicate
its sanction, by wire, to the estimate.
In his schedule of demands for the
current year, the Supdg. Engineer ap-
plied for Rs. 40,000- for this work, which
was not sanctioned.

9/12/97

W.H

No. 41 d/ 18.1.98

Order thereon.

The estimate amounting to Rs. 86,300, or Rs. 1,05,500 including establishment and tools and plant charges, for excavating a short cut on Yenamadurru drain to Naidu-palem Yeru in the Godavari Western division, is approved.

2. Ordered that a copy of these Proceedings, together with the estimate for the work, be forwarded to the Government of India with a request that sanction may be accorded, by wire, to the excavation of the proposed short cut, under "49. Capital Expenditure not charged to Revenue," Godavari delta system, Open Capital Account.

A.S.H
11.12.97

15/12/97

19/12/97

Issue

W.H

24.12.97

22/12/97

E.I.

To the Chief Engineer for Irrigation.
" Supdg. Engineer, First Circle.
" Examiner, P.W. Accounts.
" Revenue department.

D
27/

No. 42 d/ 18.1.98

Endorsement.

Forwarded.

9/12/97

W.H
9.12.97

Public Works Department,
Irrigation Branch.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

Print with Report & classification abstract estimate as altered in pencil

From Supdg Engr, 1st Circle, No. 1907 G.D. dt 28th April/96.

Note by the Chief Engineer for Irrigation.

The Yenamadurru Drain is the largest of its kind in the Western Delta, & is the duct through which the Yerrakalava which drains the upland taluq of Yerragudiem discharges its waters to the sea. Owing to the tortuous nature of this drain, serious backward action

This is rather a large and expensive scheme. The information given about it is scanty. Does the C. E. for Irrigation know the merits of the scheme from personal observation? Are there no other schemes of the same class which are more urgent?

A. H.
31.5.96

I should like to discuss this in Council.

A. H.
31.5.96

It will be discussed in Council

J. G. 4/6/96

Drainage is, I believe, at present the most urgent want of the G. & Dist. Perhaps the C. E. I. can tell us at Council whether any comprehensive schemes dealing fully with the requirements of the three deltas and of which this project is a part, have been prepared; ~~or~~ whether the matter is being taken up bit by bit, as the necessity occurs to the local officers of his dept. and as the means are found.

HE 10/12 R 13/12

during seasons of floods ensues, & much irrigated lan is flooded for unduly lengthened perio causing loss of crop & of revenue by remissions thereon. The estimate now forwarded by the Supdg. Engr. it is confidently expected wil mitigate this long standing evil, & wi probably enable ab 2000 acres of fresh land to be brought under irrigation. If this result, a revenue of Rs 10,000 per annum may b expected, or a retur of 10 per cent on the

outlay. As this return, however, is problematical, the estimate as reduced in this office from Rs 85,580 to Rs 84,800 may be classed as unremunerative & submitted to the Govt of India for sanction with reference to para 35 V(a), Chapter V, Vol II, P.W.D Code.

Order thereon

The estimate, amtg. to Rs 104,000, for excavating a short cut on Yenamadurru Drain to Naidupalem yeru in the Godavari Western Dn. is approved.

2. Ordered that a copy of these Procs, together with the estimate for the work, be for-

PROCEEDINGS O

From Supdg Engr, 1st Cir

Print with Report & classification abstract estimate as altered in pencil

This is rather a large and expensive scheme. The information given about it is scanty. Does the C. E. for Irrigation know the merits of the scheme from personal observation? Are there no other schemes of the same class which are more urgent.

A.H
31.5.96

I should like to discuss this in Council.

A.H
31.5.96

[illegible] will be discussed in Council
J G 4/6/96

Drainage is, I believe, at present the most urgent want of the G. Dist. Perhaps the C.E.I. can tell us at Council whether any comprehensive schemes dealing fully with the requirements of the three deltas and of which this project is a part, have been prepared; ~~or~~ whether the matter is being taken up bit by bit, as the necessity occurs to the local officers of his dept. and as the means are found.

during seasons of floods ensues; & much irrigated land is flooded for unduly lengthened period causing loss of crop & of revenue by remissions thereon. The estimate now forwarded by the Supg. Engr. it is confidently expected will mitigate this long standing evil, & will probably enable about 2000 acres of fresh land to be brought under irrigation. If this result, a revenue of Rs 10,000 per annum may be expected, or a return of 10 per cent on the outlay. As this return, however, is problematical, the estimate as reduced in this office from Rs 85,580 to Rs 84,800 may be classed as "unremunerative" & submitted to the Govt of India for sanction with reference to para 35 (a), Chapter V, Vol II, P.W.D. Code.

Order thereon

The estimate, amtg. to Rs 104,000, for excavating a short cut on Yenamadurru Drain to Naidupalem Yeru in the Godavari Western Dn, is approved.

2. Ordered that a copy of these Procs, together with the estimate for the work, be for-

I observe that the object of this project is to facilitate the discharge of water into the Uppiteru. But I thought that the complaint was that the Uppiteru already received 'more water than it could discharge'? I presume it has been ascertained that the levels are such that the tidal water will not run up the proposed short cut?

3/6/96

~~AEH~~

~~3.5.96~~

warded to the Govt of India with a request that sanction may be accorded to the excavation of the proposed ~~straight~~ short cut under "49. Capital Expenditure not charged to Revenue", Godavari Delta System, Open Capital Account.

Indorsement —

Forwarded

21/5

Rneads 25/5/96

To
The Chief Engr for I.
Supdg Engr 1
Ex. E. W.D.
Rev. Dept

E. I. Form No. 1—500—14-5-95

21/5

~~D.~~

~~Hon'ble Mr. Rees~~
~~Hon'ble Mr. Stokes~~

—

Estimate for excavating a short cut on Yenamadurru Drain to Naidupalem Yeru, Godavari Western Dn.

of 123

The Chief Engineer says that the average remissions amount to nearly Rs. ~~3000~~ 11,000 per annum. He has adopted this figure from the report of the Ex: Engineer, Mr. Wickham, No. 247 M. dated 15 July 1896. Attention is invited to that report and to the method of calculating the annual average.

Let us take the first village: in four out of the five years there were no remissions, but the whole amount remitted in the fifth year is taken as the average! In the next case, there were remissions in three years, and one-third of the total is adopted as the average!

I hope this is not an average specimen of the way in which statements are prepared and accepted in the P.W.D.

The actual average is, I think, Rs. 3,647.0.1. But in two of the five years, there was no remissions, and in one year, they were small in amount. The arithmetical average is therefore an unsatisfactory basis and further enquiry should be made. The Collector's opinion on the project should be asked.

AAH 9.8.96

Note by the Chief Engineer for Irrign dated 25. May 1896.

—

Since forwarding the above note on the advantages to be derived from the excavation of a straight cut from the Yenamadurru Drain, I have obtained from the Revenue Department through the Superintending Engineer, First Circle, a statement showing the average remissions during the last 5 faslies ending 1305 upon the lands subjected to submersion in the neighbourhood of the drain. This average amounts to the high figure of nearly Rs 11,000 per annum, whilst the loss of crop to the ryot may be taken at four times that amount. Apart then from any additional revenue being expected from the carrying out of the work, it appears incumbent upon the Government to execute it if merely to remedy the evil recognised above. I have a personal acquaintance with the drain having travelled up it more than once, and can corroborate the statements made

in

in the report regarding its tortuous alignment. It will be seen from the Executive Engineer's letter that the drain if improved will divert some of the drainage now flowing into the Colair Lake, and relieve its usually congested condition by affording such drain water a more direct and rapid flow to the Uppateru. All drains near the sea are more or less tidal, an objection which in such cases cannot be evaded.

Rnc D.S.
"J"

JH
1/8/96

~~H.E.~~

Estimate for excavating a short cut on Yenamadurru Drain to Naidupallem Yeri Godavari Dt

[illegible]

08123

His Excellency the Governor

Straight cut to Yenamadurru Drain to Naidupalem Yeri

Letter from the Superg. Engineer, First Circle, No. $\frac{C}{141}$ dated 4/8/96.

Endorsement from the Collector of Godavari, Dis. No. $\frac{262}{12}$ dated 20/1/97.

Flag A

Submitted to His Excellency the Governor with reference to his remarks dated 9 August 1896 on note by the Chief Engineer for Irrigation dated 25 May 1896.

WH
J 9.2.97

The C.E. I should send me a Note stating the result of the references made on my remarks dated 9 Aug. 1896, and his own opinion thereon.

I cannot find that any notice has been taken of the statement made in Mr. Lamminie's report of the 4th Aug. 1896, para. 8.

ASH
13.2.97

BR
15.2.97

HW 8/2/97 BR.

Public Works (1897) Department.

CURRENT No. 260 G.D.

Tely
Urgent

6 P

No 82 Tele dy 9.12.97

Order Deferred Telegram

To Supg Engr, 1st Circle
" Pending Govt of India sanction to Yenamadurru drain estimate & allotment of funds work cannot be started".

9/12/97

W.H.
9.12.97

9/12/97

Desp
9/12/97

From the Supg Engr: I Circle

No. Telegram

Dated 8th Decr 97
Received 9 — Do
Enclosures
Spare copies

SUBJECT.

Yenamadurru drain work — reqg: to obtain permission to start — in anticipation of sanction.

W.D.
[illegible] telegram [illegible] for the [illegible] 9/12/97

Note A No 253 G.D. [illegible] given to [illegible] yesterday
9.12.97

To E.S.
The estimate is [illegible]
It will have to be sanctioned by the Govt of India [illegible] cannot be [illegible]
[illegible]
9-12-97

BACK PAPERS.

No.	Date.
R253 G.D	739 11/97

FURTHER PAPERS.

No.	Date.
I 82 Tele	9 12/97

B

58

INDIAN TELEGRAPH. Monthly Local No. 171

From Station Waltair		
Day. 8	Hour. 13	Minute. 8

OFFICIAL INSTRUCTION. Left

From (Person) S.E. 1st Circle

pleas

Irrigation

Frank

is Office Number

1 G. D of

ultimo please.

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LICANE
DE.
97

SENT TO			L. N.	
At	Hrs.	Mts.	By	

Postmaster.

(1897) Department.

CURRENT No. 253 G.D

From J. C. Larminie Esquire
M. I. C. E
Superintending Engineer
I Circle

No. 1482 GD

Dated 19th November 1897
Received 29 — Do —
Enclosures 14 (× 6 plans)
Spare copies

SUBJECT.

Yenamadurru Drain, Godavari Western Division, - Resubmits plans and Estimates for the proposed short cut of —

DEI

30/11/97

29/11/97

30-11

BACK PAPERS.

G.O.	No.	Department.	Date.
I 173	G.D.	d/10 4/97	5

FURTHER PAPERS.

G.O.	No.	Department.	Date.

SUPERINTENDING ENGINEER, No. 1538 11 OCT. 97 6 FIRST CIRCLE.

Index No. 8.

Report to accompany the Estimate for Excavating Short-cut of Yenamadurru drain to Naidupalem yeru.

86300.84
~~84800~~
Amount of Estimate Rs 85,580.

The proposed Short-cut of Yenamadurru drain is from the bend at Dursumarru to the branch creek between Gullapad & Naidupalem as shown in Survey plan. The straight cut would reduce the length of the drain by 10 miles and would probably pay directly by enabling 2,000 acres of land now waste to be cultivated. It would most certainly pay indirectly. Above the cut ~~the~~ considerable damage is yearly done to crops owing to floods

W. Dinorgan 28/4
Executive Engineer in Charge
1st Circle

L. A. Markham
Executive Engineer

16-4-96

CHIEF ENGINEER FOR IRRIGATION.
29 JAN 97
No. 20 G.D.
1

FOR IRRIGATION
No. 2980/5

CHIEF ENGINEER FOR IRRIGATION.
29 NOV 1897
No. 253 G.D.

1483 GL

No. 1482 G.D. 2P ✓

FROM

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

FIRST CIRCLE.

Enclosures: 14 ✓ TO

THE CHIEF ENGINEER

FOR IRRIGATION.

~~WALTAIR~~, Camp Dowlaishm. 19/11/1897.

Desp'd 24-11-97

- ✓ 1 Sketch map showing the position of short cut
- ✓ 1 Longl & cross section of do
- ✓ 1 Survey of ~~do~~
- 1 Estimate for Compensation for land for do
- 1 do for Excavating do
- 1 do for demarkating do
- 1 Classified abstract to do
- 1 Report
- ✓ 1 Sketch map showing the position of short cut Mogultur drain &c –
- 1 Sheet of sections of Naidrupalem creek
- 1 do – of drain above proposed straight cut
- ✓ 1 statement showing drainage areas & discharges of affluents
- ✓ 1 Register of gauge readings &c
- 1 Hydralic calculations do

14 Total.

SIR,

In reference to your Memo No: I/173 G.D. Of 10-11/97, I have the honour to state in resubmitting the Estimates that the proposed slight deviation of the Drain, will not, as stated in para 3 of the Exec Engineer's report cause any material difference in the Estimate. It may be as well, however, to allow Rs 500 for dredging in case it should be necessary and Rs 1000 may be included for baling. So, if you approve, these additions may be made in your office.

It would be a great advantage could funds be allotted for execution of the work during the coming season.

I have the honour to be
Sir,
Your most obedt Servt
J C Larminie
Supdg Engineer 1st Circle

+ Original returned to S.E. with refce his letter No. 1249 G.D. d/ 9.9.98 MA 17/9/98

KDS 20/11.

20/11

S. B. I./1 500—29-2-96.

CHIEF ENGINEER
FOR IRRIGATION.
29 NOV 1897

FROM

SUPERINTENDING ENGINEER, 259 GD

FIRST CIRCLE.

TO

THE CHIEF ENGINEER

FOR IRRIGATION.

DATED
DESPATCHED
RECEIVED } 189

No.

ENCLOSURES.

SUBJECT.

Public Works (1897) Department.

2
5

IRRIGATION BRANCH.

ISSUE No. 1/173 GD

To

The Supdg Engineer
First Circle

(Reply to letter No. 1222 GD dated 29/9/97.

Dated 10.11.97
Despatched 11.11.97
Enclosures* 6

* Particulars of Enclosures.

1 Sketch map
2 Sections
1 Statt
1 Register gauge readings
1 [illegible] Calculations

SUBJECT.

Yennamaduru Straight Cut — SE requested that the estimate for improvements to the — should be completed according to the suggestion made in SE's report and submitted.

Indexed

E. I. Form No. 13—2,600—23-2-97.

BACK PAPERS.

No.	Date.
R216 GD	29-9-97
I 28 GD	16.2.97
R148 GD	12.8.96

FURTHER PAPERS.

No.	Date.
R 253 GD	19-11-97

Sent to Government with No. I.,

dated 1897.

Printed with G.O., No. I.,

dated 189 .

REMINDERS ISSUED.

No. 1, dated 189 .

" 2 "

" 3 "

" 4 "

" 5 "

KEEP-WITHS

Sent

I / 173 GD d/ 8.11.97

S.E. I

With reference to the S.E. No 1222 GD d/ 29.9.97 the calculations given in the E.E's report are accepted as proving that the width proposed for the Yennamadurru Straight Cut is suitable – The improvement in the lower part of the line of the Cut suggested in para 3 of the Exe Engineer's report is approved and the estimate should be accordingly completed and submitted,

W.H.

8.11.97

10/11/97.

Public Works (1897) Department.

CURRENT No. 216 G.D. ~~1222 G.D.~~

Order

See & reply [illegible]

[illegible] No 28 G.D. [illegible]

[illegible]/97 which is [illegible] the

[illegible]

Note

Papers connected with this were put up with the Annamalanka project (R No 176 G.D./97) and sent to E.D. on 30/9/97

[illegible] 13/10/97

Papers returned as desired to file 6/11/97 [illegible]

13/10/97

From J. B. Lemmine Esq. M.I.C.E. Supdg Engr. [illegible] Circle

No. 1222 G.D.

Dated ~~29~~ 1. ~~9~~ 10. 1897

Received 12-10-97

Enclosures 6

Spare copies

SUBJECT.

Yenamadurru Straight Cut — Submits Copy of Mr. Marshall's report on — with remarks

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Sectional [illegible]

D.E.I.

14/10/97

13/10/97

BACK PAPERS.

G.O.	No.	Department.	Date.
I	28	G.D.	16-2-97.
R	148	G.D.	12-8-96.

FURTHER PAPERS.

~~G.O.~~	No.	Department.	Date.
I	173	G.D.	10-4-97
R	253	G.D.	19-11-97

Public Works (1897) Department.

IRRIGATION BRANCH.

ISSUE No. 1/28 G.D.

To

The Suptg. Engr. I Circle

(Reply to letter No. , dated)

Dated 16th February 1897

Despatched 22nd do

Enclosures *

* Particulars of Enclosures.

SUBJECT.

Yennamaduru Drain — Straight cut from — to Naidupalem Yeri — Returns for reconsideration plan and estimate for a — with reference to the remarks noted within

BACK PAPERS

E. I. Form No. 13—2,000—1-11-97.

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Sent to Government with No. I.,
dated 1897.
Printed with G.O., No. I.,
dated 189 .

REMINDERS ISSUED.

No. 1, dated 189 .
„ 2 „
„ 3 „
„ 4 „
„ 5 „

KEEP-WITHS.

Rec 8/3/57

I
No 28 SD of 16.2.57

S E I.

Em 8

With reference to the SE's No $\frac{C}{141}$ d/ 4 Aug in the concluding para of which he recommends that the bed fall of the drain be altered, the plan and estimate are returned to him for reconsideration -

2. The bed of the Yenna = maduru drain above the ~~new~~ ~~cut~~ proposed cut is about 9 ft below M.S.L, according to the sections which it is hoped have been carefully made. The level seems very low considering ~~how~~ the distance ~~far~~ from the sea ~~the [illegible]~~, and if the Supt. Engineer who knows the place is not fully satisfied that the levels are correct, it would be well to verify them - The flood section of the stream is about 930 s.ft but it does not appear whether ~~this~~ ~~is the present~~ the flood level (+5 [illegible]) is the present one or what it is expected to be when the new drain is made - The proposed drain is to be a comparatively high level spill

BACK PAPERS.

channel with a flood section of about 1000 sq. ft and discharge into a creek with a flood section of about 500 sq. ft – Does the Supd. Engineer expect this creek to ~~sees~~ become enlarged? If not what is the object of making the new drain so much large, ~~or~~ if the section of the new chl. is correct why is not provision made for enlarging the creek.

3. The Scheme has been to a certain extent accepted by this office and it is desired not to alter ~~the estimate~~ it without good reason. At the same time it is evident that the Scheme has not been by any means scientifically worked out – The drain below the Bondada infall is said to be of good section and it is presumed that when it is relieved of a part of the Yennamadurru drainage it will be still more efficient in disposing of the Bondada drainage. ~~It will~~ Above the Bondada infall to the head of the proposed cut ~~it but~~ the old Yennamadurru drain will still remain in use ~~and will carry the difference between~~ and with the proposed drain will dispose of whatever is brought down by the Yennamadurru above the cut – Apparently there has been no attempt to ascertain how much this may amount to, or to apportion it between the new and old drains – As a starting point we have the Upputeru with a large section and a flood level which cannot be appreciably altered – The flood level at the Bondada infall may possibly have to be assumed in the first approximate calculations made but this is probably the only assumption which need be made. If therefore it is desired to limit the flood level at the head of the new cut to 5 ft above mean sea it has to be ascertained how much the Yennamadurru above that point can discharge and how much of this will flow down the present chl. to the Bondada infall – The balance will indicate the proper capacity of the new cut – The calculations will have to be made by a series of approximations –

on this assumption

4. The estimate provides for taking up of 120 acres of land at Rs 25 an acre. Is this rate obtained from the Revenue [illegible] Officials? If not their estimate should be obtained. There is nothing to show what it is intended to do with the very large quantity of spoil. It obviously cannot be deposited within the limits of land proposed to be acquired and if it is ~~for~~ intended to use it for raising neighbouring land there should be a clear specification ~~describing~~ prescribing the depth to which it is to be spread

and it ~~should~~ be stated
whether the raised land is to be
irrigated and by what means;
whether the landholders assent
to the arrangement and any
other information which will prove
that there will be no heavy future
claims made on Government on
account of any action taken by
this Department —

5. It is expected that the
improvement of the drainage
will enable the ryots to
cultivate 2000 acres. Where
is this land? Definite
information is required.

16.2.97 W.H.

Retd Signed G.E.D. on 20.2.97

old drains —

Public Works (1897) Department.

CURRENT No. 20. GD

Order

From The Collector of Godavery Dt

No. 262/Rev

Dated 20th Jany 1897

Received 30-1-97

Enclosures

Spare copies

SUBJECT.

Short cut from Yerramada Drain to Naidupalem Ye— — Stating that it is desirable to have a —

and it [illegible] be stated
whether the

BACK PAPERS.

No.	Date.
I-76. G.D	12-8-96
R148: G.D	4-8-96.

FURTHER PAPERS.

No.	Date.
I 28 G.D 7	16/12/97
R176 G.D	16-8-97
R253 G.D	19-11-97

Dis. No. 14 of '97.

Godavery Dist General
Deputy Collector's office;
Narasapur, Dt 9.1.1897
desp'd 11.1.97.

From,
M. R. Ry Rao Bahdur. P. Purnayya pantulu
garu,
Deputy Collector, Gl duties,
Godavari Dist, Narsapur.

To,
The Collector,
Godavari.

Sir,

In reference to your Ref. no. 3,191/ver. of 24-8-96 on letter no. 76 G.D. of 12th Idem from the Chief Engineer for irrigation, I have the honor to return herewith the estimate and ~~a~~ report received therewith regarding a short cut on Yanamadurru drain to Nayudupalem ~~yerra~~ and to state that the improvement ~~proposed~~ proposed therein is essential for the relief of the lands from submersion under the said drain.

2. This Yanamadurru (~~drain~~) drain is not a simple drainage channel like others, but a branch of Yana-Calana, a jungle stream which comes

from His Highness the Nizam's Country. During rainy season this Yerra Calava overflows and inundates a large extent of the Delta tracts submerging the Crops and causing great damage to them. Most of the fields in Bhimavaram Taluk are lower than the ~~flood~~ flood level and the existing arrangements made by the D.P.W. for the discharge of the Surplus water are reported to be too inadequate to protect the lands from submersion and Consequent loss of Crop.

3. A statement showing the names of Government villages in the Bhimavaram Taluk generally subjected to less or more submersion on account of the defective state of the Yennamadurru drain and the total area under occupation in each village is herein enclosed. From this, it will be seen that the total area under occupation is 42,258 acres besides a further large extent of the Zamindari villages of the Baharazalli Estate, which are also subject to the submersion of water every year. In Government villages, there are also about 2,954 acres occupied waste and 8,753 acres Government waste every year.

4. The extent of relief that may be granted by the proposed improvement to Yanarnadurru drain cannot be exactly ascertained, but the Tahsildar of Bhimavaram, in his Arzi Ref. on Cir. No 4,889 of '96 of 17.12.96, roughly estimates that nearly 14,086 acres (that is nearly one third of the total occup~~ation~~ied area as per Government villages in the enclosed statement) may be protected from partial loss of crop and that 4,200 acres of both occupied and Government waste may probably be brought under wet cultivation, if sufficient and timely supply of irrigation can be assured. Besides this, a large extent of land belonging to the villages of the Baharazali Estate may also be protected from submersion. I agree with the Tahsildar that the execution of the proposed work may be calculated to ~~the~~ benefit not only the Government but also the ryots by enabling them to reap normal ~~h~~ harvests of crop every year without claiming remissions

I have - - etc - -,

(Sd) P. Purniah pantulu garu,

Deputy Collector.

(True copy).

Dis. 262/ver. of 96. R 20-1-97
des 26-1

Communicated to the Chief Engineer for irrigation in reference to his letter No. 76 G. D. of 12. 8. 96.

2. The proposed work seems to be a desirable one.

(Sd) R. H. Shipley
ag. Collector.

For Collector.

NS
25-1

To
The Chief Engineer for irrigation
with the enclosures returned.

1897
Revenue Department.

From

The Collector,

Godavari District.

CHIEF ENGINEER
FOR IRRIGATION.
29 JAN 97
No. 20. GD

Dated — 20/1/97
Despatched. } 26/1/97
Received

No. 262/Mi 97

Encls 5

Subject.

Communicating to the Chief Engineer for irrigation Narsapur Dy Collectors letter stating that it is desirable to have a short cut on Yenamadurru drain to Naidupalem yerra

Ref. Clerk. Put a new docket from register. 30/1/97

papers

30-1-97

30/1/97

6

Public Works (1897) Department.

IRRIGATION BRANCH.

ISSUE No. 7 GD

To

The Collector of ~~Circle~~
Godavari

(Reply to letter No. , dated)

Dated 12. August 1896
Despatched 15 — do —
Enclosures *

* Particulars of Enclosures.

SUBJECT.

Short cut on Yenamadurru Drain to Naidupalem Yeri Forwards estd report of the E Engr reg a — and requests S E's opinion as to the improvements of the —

1, Form No. 13—2,000—1-11-97.

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Sent to Government with No. I.,
dated 1897.
Printed with G.O., No. I.,
dated 189 .

REMINDERS ISSUED.

No. 1, dated 189 .
" 2 "
" 3 "
" 4 "
" 5 "

KEEP-WITHS.

No 76 G. D. d/12/8/96

Eng 8

To,

The Collector of
Godavari.

Sir,

In forwarding the estimate and report of the Ex: Engineer Godavari Western Dn regarding a short cut of Yenamaduru Drain to Naidupalem Yeri, I have the honour to request that you will be so good as to inform me whether in your opinion the improvement to the Yenamaduru Drain to Naidupalem Yeri at an estimated cost of 10,4,000 is essential for the relief of the lands liable to submersion under it. The average remission for the five faslies 1301-1305 on total loss of crop is apparently from figures supplied from your Deptt Rs 3847, but there is no doubt that large loss was sustained by the ryots in those years from partial loss of crop on which no remission was granted. Apart from the direct loss to the Govt of remission of assessment, I presume the damage done to crop occasioning a short-fall in harvest return and consequent loss to the ryot is an indirect result which should be taken into consideration.

12/8/96

E. 1. Form No. 13—2,000—1-11-97.

Public Works (1896) Department.

CURRENT No. R1484D

Order

From

The Supdg Engineer I Circle

No. C/141

Dated 4th August 1896

Received

Enclosures

Spare copies

SUBJECT.

Yennamaduru drain
Reports that the proposed
estimate of Rs 85,580 for
excavating a straight cut
to give the lower reach o
the — a more direct an
quicker out fall to the sea
will give only indirect benef
to the Bhimavaram Tal
and recommends its sanc

E. I. Form No. 13—2,000—1-11-97.

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.
176. G.D	12-8-96
R 20. G.D	20-1-97
I 28. G.D	16-2-97
R 176 G.D	16-8-97
R 253 G.D	19-11-97

No. C/14

FROM

J. C. Lamminie . . . R. E.
SUPERINTENDING ENGINEER

FIRST CIRCLE.

Enclosures.

TO

THE Chief Engineer for Irrigation

Camp Narsapur canal
~~DOWLAISHWERAM~~, 4 August 1896.
Dd 8.

SIR,

In Continuation of this office No: 190 G.D / 28.4.96 forwarding for Sanction an Estimate amounting to Rs 85580 for excavating a Straight Cut to give the lower reach of the Yennamaduru Drain a more direct and quicker outfall to the Sea, I have the honour to report, ~~having~~ having just made an inspection of the locality and to state that I consider the proposals are likely to result in considerable indirect benefit to the Bhimavaram Taluq of the Western Delta.

× R 79 G.D/96.

2. The tract is a flat low lying one, on which converge several of the main lines of drainage of the Delta. The Bondada and Gostanaddi flowing into the

Yennamaduru

Yennamaduru, which latter falls into the Salt-Creek, known as the Upputeru, some twelve miles below Bhimavaram Lock.

3. The Bondada Drain joins the Yennamaduru about six miles above this point and from the junction downwards, the Stream is fairly straight deep and wide, with a rapid current in part of its course so that as far as the Bondada is concerned the outfall is good. But above the junction, for over two miles, the Yennamaduru is extremely tortuous, considerably shoaled and shallow in places, with a very slight fall and it is through this very length, that the whole discharge of the united Yennamaduru and Gostanaddi has to pass. No wonder then, that the Country above is submerged during heavy rainfall.

4. In the report accompanying the estimate, I think, too much has been made of the saving in length (10 miles) to be attained by the Straight Cut. The Yennamaduru joins the Upputeru about five

five miles higher up than does

into which the Straight Cut will discharge, the actual gain in fall between these points will not be great. But the new cut will afford a shorter and more direct exit to the Upputeru and it will besides benefit by the tidal scour, which apparently has now but little influence on the Yennamaduru above the junction of the Bondada Drain.

5. The remissions shown in the Statement forwarded to you by the Executive Engineer, Western Delta with his letter No. $\frac{247M}{15.7.96}$ especially those due to the heavy rainfall of last September, may be almost altogether ascribed to the defective outfall for the drainage brought down by the Gostanaddi and Yennamaduru Drains.

6. It cannot be shown that the proposed work will yield a direct return. But after the large sums which have been expended in providing efficient means of Irrigation for this part of the Country it will be a pity not to

render

E. I. Form No. 13—2,000—1-11-97

Yennamad[illegible]

C[illegible] [illegible]ammie Esqr M.I.C.E.

SUPERINTENDING ENGINEER
12 AUG. 96
FIRST CIRCLE,
No. [illegible]

TO

THE Chief Engineer
for Irrigation

DATED 4
DESPATCHED 8 } August 1896.
RECEIVED

NO. C/141 (7)

ENCLOSURES.

SUBJECT.

file of this is being completed by R.h. [illegible]

Estimate for Rs 85580 for excavating a straight cut, to give the lower reach of the Yennamadurru Drain (8) a more direct and quicker outfall to the Sea — reports that the proposed — will give only an indirect benefit to the Bhimavaram Taluq + recommends it sanction —

render the same as effective as possible, The work being classed as necessary, for the further developement of the Project. On these grounds I would recommend the Estimate for Sanction.

In this Connection, may be read paras 21 to 23 of my report No C/140 3.8.96 on the Ammanalanka Project.

I do not think that the estimate as sent in allows sufficient bed fall. 6 Inches per mile, at least. might be allowed.

I have the honor to be,
Sir,
Your Most Obedt St

J Clammie
Superintending Engineer
8/8 First Circle

Public Works (1896) Department.

CURRENT No. 79 G.D

Order

From The Suptg Engr
I Circle

No. 1909 G.D

Dated 28 April 1897
Received 5 May 1897
Enclosures
Spare copies

SUBJECT.

Excavating a short cut on Yennamadurru Drain to Naidupalem Yeru, submits plans and estimates amounting to Rs 85580 under Capital Account for — for sanction.

E.I. Form No. 13—2,000—1-11-97

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

No: 190 G.D.
Camp Davaleswaram
Dated 28 4/96

From
W. C. De Morgan Esqr
Exe Engr in Ch 1st Circle

Encls. 8.

To
The Chief Engineer
for Irrigation
Madras

Sir

I have the honour to submit herewith for sanction plan and estimate amounting to Rs 85,580 under "Capital account" for excavating a strat cut on Yenamadurru drain to Naidupalem Yeru, received from the Exe Engineer Western Division Godavari.

2. The straight cut will bring 2000 acres of land now waste under cultivation as explained in the report accompanying the estimate.

3. The work is classed as unremunerative as it is not in itself directly remunerative.

4 It may be completed before the end of March 1899 provided that the estimate is sanctioned this year and sufficient funds are allotted in 1896-97, 1897-98 and 1898-99.

I have the honour to be,
Sir,
Your most obedt St
W De Morgan
28/4 Exe E... ineer 1st C...

EE 1/5