Public Works (1898) Department.

G.O., No. 807 I

DATED 13th April 1898.

15/4/98

[Despatch Abstract.]

Gokavaram Pedda tank Estimate of Rs. 6800 for constructing surplus weir to do in Godavari Western Dn. Sanctioned.

110/6

Xd 18/4/98

Regd. 18/4/98

[P. W. 36. 1,000—12-2-94.]

Indexed. 18/4

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 (1898) of Madras.

PUBLIC WORKS.

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

G.O., No. 307 I., 13th April 1898.

APRIL.

Gokavaram Pedda tank

Estimate of Rs. 6,800 for constructing surplus weir to — in Gódávari Western division, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers:—

From J. C. LARMINIE, Esq., M.I.C.E., Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, dated 10th September 1897, No. 1075 G.D.

I have the honour to submit the accompanying plan and estimate amounting to Rs. 6,800 for constructing a surplus weir to Gokavaram Pedda tank in the Gódávari Western division and to request that an early sanction of Government may be obtained to the same.

2. A surplus weir was built to the tank in 1893, but it was seriously damaged by floods in the same year. The Executive Engineer reports that the type of weir is so unsuitable to the circumstances of the tank that there is no doubt that the weir must be condemned and removed and a new weir of a suitable design constructed. Hence the submission of the present estimate.

3. The following papers accompany the estimate:—

1 survey of the proposed weir site.
1 tabular statement.
1 data sheet.
1 report.

4. The Executive Engineer further reports that if the tank is made efficient 800 acres of land will, according to Tahsildar's statement, be irrigated.

5. I have sanctioned an estimate for repairing the bund of the tank.

6. The Executive Engineer has been authorised to collect materials in anticipation of sanction.

ENCLOSURE.

REPORT to accompany the estimate for repairs to Pedda tank No. 61 of Gokavaram.

	RS.
Estimate	6,800

The tank is situated to the north of the village of Gokavaram; its bund runs north and south. It is a very important tank being the head of the Gunderu river which feeds several tanks below. The tank was repaired under Tank Restoration Scheme estimate some years ago, and the bund generally is in good order and very nearly up to full height but is subject specially towards the right flank to wave action. The bund from right flank end to the first sluice being particularly eroded. Some attempt was made to plant grass and with success, but as nobody cared for it, the villagers have allowed the cattle to graze it off, and it is therefore now proposed to replant the inner slope as shown in green with the same; and have two men to watch it for one year on Rs. 4 per mensem each to look after water and conserve this and bund.

sluices are all in good order.

The weir built in the same year is of inappropriate design, the soil is so bad, being yellow soft clay mixed with nodule lime, it becomes very soft when wet and hard when dry, the consequence being the weir has now been damaged, as shown on survey and separate plan, the drop to lowest point now being 13 feet and the damage has occurred from under the whole structure. It is now proposed to demolish the old weir, and utilize the stone got therefrom in revetments and closing the breach and revetting its front slope and build a new weir more to the right. Levels and survey of the site are herewith submitted. The bed of the stream on head of the Gundana has worked itself down to its lowest level now, and is not likely to go any more, this level is roughly + 74·00.

* * * * *

(Signed) C. W. TRAISH,
Sub-Divl. Officer, Tank Sub-Divn.

The design submitted by the sub-divisional officer for the weir has been altered in the division office. The site selected for the weir is not all that could be desired, as the run off is somewhat confined by the high ground opposite, but it is the only one available. The soil on which the weir is to be built is soudoo and very easily scoured. An extensive apron is therefore provided in rear. It is considered that the surplus channel in rear will in time widen out, and to facilitate this, it is proposed to cut canals 10 feet wide through it, as shown on the site plan.

If necessary the drops of these rough stone aprons might be made 1½ feet each.
(Intld.) J. C. L.

The ground rises suddenly at the left flank and at first sight a wing appears unnecessary at this end, but as the ground is so very easily scoured, it is considered unamiable to leave an open flank near the masonry work. The site of the old weir is to be closed with a bund and it is proposed to throw out stone spur at the right end of the weir in order to prevent the surplus water rushing down the scour in front of the old weir in damaging the new earth-work.

15th April 1897.

(Signed) D. MARSHALL,
Ex. Engr., Gódávari Western Divn.

The new weir will be 2 feet longer than was the old one.
(Intld.) J. C. L.

To the Superintending Engineer, I Circle, dated 7th October 1897, No. I/158 G.D.

From J. C. LARMINIE, Esq., M.I.C.E., Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, dated Camp, Dowlaishweram, 27th October 1897, No. 1332 G.D.

With reference to your memorandum No. I/158 G.D., dated 7th instant, I have the honour to forward herewith the plan of the weir asked for.

2. As regards the way in which the weir failed, the sub-division officer of the tank and embankment sub-division has reported that the bottom of the concrete in the weir which was founded on bad soil was supposed to be laid at + 174·55 while the channel below varies between + 170 to 172, the bed of tank in front of the site being about + 173. The consequence was that owing to retrogression, the weir was undermined. It began from the lower side and worked under the apron and body wall.

3. A copy of Mr. Paul's letter No. 615, dated 29th February 1896, is also enclosed for your information.

Enclosure.

Copy of letter No. 615 S., of 29th February 1896, from J. E. PAUL, Esq., Executive Engineer, Gódávari Western Division, to the Superintending Engineer, I Circle.

I have the honour to report that I have inspected the weir of Gokavaram Pedda tank No. 61, which was reported as seriously damaged in the storm of September 5th, 1895.

2. The damage is so considerable and the type of weir is so unsuitable to the circumstances of this tank that I consider that there is no doubt that the weir must be condemned and removed and a new weir of a suitable design be constructed in its place.

3. The weir was built in 1893 at a cost of Rs. 3,443, a lower apron was placed in 1894 at a cost of Rs. 1,375 as the weir was seriously damaged by the floods of 1893.

4. The tank is well situated and has a good supply of water. The Tahsildar reports that 800 acres will be irrigated under this tank, if it is made efficient. This seems probable and, I conclude, will bring in a revenue of at least Rs. 2,000 per annum.

5. The works necessary are (1) the construction of a weir designed for a drop of 10′, (2) revetting the bank to 2′ above F.S.L. for three quarters of a mile, total length of bank being 1 mile, (3) a diversion of the bank at the south end which will reduce the length, go through better soil and abut on high ground. The present south end is of salt-earth and is in a ruined state, (4) excavation of a proper supply channel from the existing sluice.

6. These works will probably cost somewhat over Rs. 20,000. I believe that thorough repairs, as I now propose, would be beneficial both to the ryots and to Government and that any half measures would lead to a further waste of money. I request your orders as to whether estimates may be prepared on these lines. I enclose a tracing of the weir as it now exists and a tracing of the channel below it.

7. The soil in the channel is of soft kunker and has retrograded considerably since the weir was constructed. The disaster has been due as is usually the case with tanks through the preliminary investigations of the line of out-fall from the weir not being sufficiently thorough.

No. 125 I.

Note by the Chief Engineer for Irrigation.

The accompanying estimate amounting to Rs. 6,800 submitted by the Superintending Engineer, I Circle, with his letter No. 1075 G.D., dated 10th September 1897, provides for the construction of a surplus weir for the Gokavaram Pedda tank, Gódávari district, to take the place of a weir built in 1893.

The account given of this work in the Superintending Engineer's letter quoted above does not appear to be complete and enquiries were made in this office as to the reasons for the failure of the weir of 1893 with the view of ascertaining whether the provisions now made were likely to be more successful.

It would appear that at the time of constructing the weir the Superintending Engineer had doubts as to the hardness of the soil being sufficient to withstand scour as he says in his letter to the Chief Engineer for Irrigation, No. 633 G.D., dated 14th June 1892:

> "The soil is said to be hard gravel, it is certainly very hard now but a bye-wash cut at one end of the tank last year scoured down below F.T.L. considerably and necessitated the change of site of weir."

Floods of 1893 confirmed the Superintending Engineer's doubts as damage occurred in rear of the weir and a rear apron was added. The weir was still more seriously damaged in a storm of September 1895 by the cutting away of the ground in rear.

The failure would thus seem to be due to insufficient foundations and rear aprons having been originally provided.

The design now submitted provides for three rear aprons, the retaining wall to the lowest of these being founded from 4 to 5 feet below the level of the ground in rear which ought to be sufficient and may be sanctioned.

Chepâk,
30th March 1898.

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

To the Joint Secretary to Government,
Public Works Department, Irrigation Branch.

Order—No. 307 I., dated 13th April 1898.

The following estimate is sanctioned :—

Irrigation.
43. Minor Works and Navigation.
Minor Works for which neither Capital nor Revenue Accounts are kept, P.W.D.
Original Works.
Gódávari Western Division.
Constructing surplus weir to Gokavaram Pedda tank, No. 61, of list of Minor Works, Public Works Department, Gódávari district, appended to G.O., No. 407 I., dated 6th July 1887.

	RS.
Estimate	6,800

2. This sanction is registered as No. 8 I. of 1898-99.

(True Extract.)

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

To the Chief Engineer for Irrigation.
" " " (Tank Restoration Scheme with estimate, &c., to be returned to Superintending Engineer, I Circle, as soon as done with).
" Superintending Engineer, I Circle.
" Examiner of Public Works Accounts.

Exd. A. F. Eccleston.

His Excellency the Governor

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

3150

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Constructing surplus weir to Gokkavaram Pedda tank ~~Godaveri Dt~~ Note recommending for sanction estimate of Rs 6,800 for —

UNDER date the

READ the following

Print with report — From the Supg Engineer I Circle, (H.E. No 1075 G.D. dated 10th Septr 1897)

Quote — To . . . do . . . do – (H.E. No $\frac{I}{158}$ G.D. dated 7th Octr 1897)

Print with enclosures — From . . . do . . . do . (H.E. No 1332 G.D. dated 27th Octr 1897)

Print — Note by the Chief Engineer for Irrgn (H.E.) No 125 I dated 30. 3. 1898.

No 307 ~~I.D.~~ 13.4.98

The following estimate is sanctioned

9P

Irrigation

43. Minor Works and Navigation

Minor Works for which neither Capital nor Revenue accounts are kept P. W. D.

Original Works.

Godaveri Western Division

Constructing surplus weir to Gokavaram Pedda tank, No 61 of list of Minor Works P. W. D. Godaveri District, appended to G.O No 407 I dated 6th July 1887.

Estimate . . Rs 6,800

A.G.H. 4.4.98

Issue

W.H. 6.4.98

KCS 5/4/98

2. This Sanction is registered as
No. 8 I of 1898-~~98~~-99

W.H.
2-4-98

789

18/4

2/7/4/98

To.

The Chief Engineer for Irrigation
" do. do. do.
(T.R.S with estimate &c to be returned
to S.E. I as soon as ~~done~~ forthwith) (7)
" Superintending Engineer First Circle
" Examiner of Public Works Accts.

E. I. Form No. 1—1,000—2-2-97.

H.E. 2/4 Ret 13/4

Public Works (1898) Department.

CURRENT No. 3150

From

The Chief Engineer for Irrigation

Order

No. 125 I

Dated 30 March 1898

Received
Registered } 7.4.98

Enclosures 12 (3 plans)

Spare copies

SUBJECT.

Constructing surplus weir to Gottavaram Pedda Tank Godavari District Note recommending for sanction the Estimate of Rs 6.800 &c —

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

Go 125 I of 30-3.98

Note by the Chief Engineer for Irrigation

—

The accompanying estimate amounting to Rupees 6,800 submitted by the Superintending Engineer, First Circle, with his letter No. 1075 G.D., dated, 10th Septr 1897, provides for the construction of a surplus weir for the Gokavaram Pedda tank Godaveri District to take the place of a weir built in 1893. Appd A

The account given of this work in the Superintending Engineer's letter quoted above does not appear to be complete and enquiries were made in this office as to the reasons for the failure of the weir of 1893 with the view of ascertaining whether the provisions now made were likely to be more successful.

It would appear that at the time of constructing the weir the Superintending Engineer had doubts as to the hardness of the soil being sufficient to withstand scour as he says in his letter to the Chief Engineer for Irrigation No. 633 G.D. 14 June 1892.

" The soil is said to be hard gravel, it is certainly very "hard now but a byewash cut at one end of the tank "last year scoured down below F.T.L. considerably and

necessitated

"necessitated the Change of site of weir".

Floods of 1893 confirmed the Superintending Engineer's doubts as damage occurred in rear of the weir and a rear apron was added. The weir was still more seriously damaged in a storm of Septr 1895 by the cutting away of the Ground in rear.

The failure would thus seem to be due to insufficient foundations and rear aprons having been originally provided ..

The design now submitted provides for three rear aprons, the retaining wall to the lowest of these being founded from 4 to 5 feet below the level of the Ground in rear which ought to be sufficient and may be sanctioned.

W Hughes

Chief Engr for Irrgn

Chepauk.
30th Mar 98.

To The joint Secy to Govt P.W.D. Irrgn Br

Public Works (1897) Department.

CURRENT No. 233 G.D

From J C Larminie Esqre
Supg Engr I Circle

Order

No. 1332 G.D

Dated 27 — 10 — 97
Received 1 — 11 — 97
Registered
Enclosures 2
Spare copies

SUBJECT.

Pedda Tank of Gokavaram
Godavari Dt
—
Submits Copy of Exe Engrs letter & also explains the way in which the weir to the tank failed

Note
This plan was asked for by C.E.I.
please see his pencil note of 1/11/97
in draft disposal on Cl No 1995/97

NK
3/11/97

C.E.I.

Ncee
10/11/97

J.E.
1/11

J 8-11-97

BACK PAPERS.

No.	Date.
I 158 G&D	7-10-97
R 199 G&D	10-9-97

FURTHER PAPERS.

No.	Date.
R 260	18-11-97
R 166 G&D	12-3-98

Copy of Letter No: 6155 of 29th February 1896 from J.E. Raub Esquire, Exec Engineer Gody Western Dn. to the Suptg Engr T Circle

I have the honour to report that I have inspected the weir of Gokavaram Pedda tank No: 61 which was reported as seriously damaged in the storm of September 5th 1895.

2 The damage is so considerable and the type of weir is so unsuitable to the circumstances of this tank that I consider that there is no doubt that the weir must be condemned and removed and a new weir of a suitable design be constructed in its place.

3 The weir was built in 1893 at a cost of Rs 3443, a lower apron was placed in 1894 at a cost of Rs 1375 as the weir was seriously damaged by the floods of 1893.

4. The Tank is well situated + has a good supply of water. The Tahsildar reports that 800 acres will be irrigated under this tank, if it is made efficient. This seems probable and I conclude will bring in a revenue of at least Rs 2000 per annum.

5. The works necessary are (1) the construction of a weir designed for a drop of 10' (2) revetting the bank to 2' above

F.S.L

F.S.L for three quarters of a mile, total length of bank being 1 mile (3) a diversion of the bank at the south end which will reduce the length, go through better soil and abut on high ground. The present South end is of salt earth and is in a ruined state (4) Excavation of a proper supply channel from the existing sluice.

6. These works will probably cost somewhat over Rs 20000. I believe that thorough repairs, as I now propose, would be beneficial both to the ryots & to Government and that any half measures would lead to a further waste of money. I request your orders as to whether Estimates may be prepared on these lines. I enclose a tracing of the weir as it now exists and a tracing of the channel below it.

7. The soil in the channel is of soft Kunker and has retrograded considerably since the weir was constructed. The disaster has been due as is usually the case with tanks through the preliminary investigations of the line of out-fall from the weir not being sufficiently thorough

True Copy

Suptg Engineer 1st Circle

BACK PAPERS. FURTHER PAPERS.

CHIEF ENGINEER
FOR IRRIGATION.
1-NOV 1897
No. 233 G.D.

No. 1332 G.D.

5 P

FROM

J. Chamieme Esquire M.J.C.E.
SUPERINTENDING ENGINEER,
FIRST CIRCLE.

Enclosures. 2

1 Plan
1 Copy of Ex. Engr's letter

TO

THE CHIEF ENGINEER
FOR IRRIGATION.

~~WALTAI~~R, Camp Dharasikh.. 27 ~~25~~ 10 1897.
Despd 29

SIR,

With reference to your memorandum No. I/158 G.D. dated 7th instant, I have the honour to forward herewith the plan of the weir asked for.

Mr. Traish

2. As regards the way in which the weir failed, the Sub Division officer of the Tank and embankment Sub Dn. has reported that the bottom of the Concrete in the weir which was founded on bad soil was supposed to be laid at +174.55 while the Channel below varies between +170 to 172, the bed of tank in front of the site being about +173. The Consequence was that owing to retrogession, the weir was undermined. It began from the lower side and worked under the apron and body wall.

3. A Copy of Mr. Paul's letter No. 615/29.2.96 is also enclosed for your information.

I have the honour to be
Sir
Your most obedt Sert
J. Ch...
Supdg Engr 1st Circle
27/10

BR
29/10

FURTHER PAPERS

CHIEF ENGINEER
FOR IRRIGATION.
1-NOV 1897
No. 233 G.D.

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

FROM

SUPERINTENDING ENGINEER,
FIRST CIRCLE.

TO

THE CHIEF ENGINEER
FOR IRRIGATION.

DATED
DESPATCHED
RECEIVED
189 .

No.

ENCLOSURES.

SUBJECT.

[illegible]

Public Works (1897) Department.

IRRIGATION BRANCH.

ISSUE No. $\frac{\text{I}}{158 \text{ G.D.}}$

To

The Supg Engineer
First Circle

(Reply to letter No. , dated).

Dated 7th October 1897

Despatched 8 · 10 · 97

Enclosures *

* Particulars of Enclosures.

SUBJECT.

Gokavaram Pedda Tank — Requests to forward to this Office for reference the plan of the weir built in 1893 and which is reported to have been unsuitable to the circumstances of the — & to report the way in which the weir failed.

Indexed

E. I. Form No. 13—2,000—23-2-97.

BACK 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

FURTHER PAPERS.

No.	Date.
R 233 G.D.	27-10-97
R 260	18-11-97
R 46 G.D.	12-3-98

Send with fair copy for D.E.'s signature
ICW 5/10/97

I
No 158 G.D. d 7-10-97

Memo

With reference to letter No 1705 G.D., of 10th ult, from the Supdg Engr, 1st Circle, the undersigned has the honour to request that he will be so good as to forward for reference the plan of the weir built in 1893 & which is reported to have been unsuitable to the circumstances of the Gokavaram Pedda tank.

2. The way in which the weir failed should be stated.

7/10/97

To the S.E. I. Circle
ICW
5/10/97

Memo

With reference to letter No. 1705 G.D. of 10th ult from the Supdg. 1st Circle, the undersigned begs the honour to request that the work be [illegible] for [illegible] as the [illegible] of the [illegible] 1893 [illegible] the Chief Engineer [illegible] to have been [illegible] to the [illegible] No. 1075 G.D. of the Supdg. Engineer [illegible]

Dated 10.9.97

[illegible] 3/10/97 G.D.

Public Works (1897) Department.

CURRENT No. 199 G.D.

Order

Re B.

[illegible]

P.R.S. [illegible] 10/9/97

Please forward the P.R.S. [illegible] required to [illegible] the report [illegible] [illegible] in your office [illegible]

125/87

From J. C. Larminie Esq. M.I.C.E.
Suptg. Engineer, 1st Circle.

To The Chief Engineer for Irrigation.

No. 1075 G.D.

Dated 10.9.97.

Received 16 — Do —

Enclosures 6

Spare copies

SUBJECT.

Gokavaram Pedda Tank — Submits an Estimate of Rs. 6,800 for constg. a surplus weir to — for favor of early sanction.

17/8
57

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

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I	158	E D	9/10/97
R	233	P.D.	27-6-97
R	260		18-11-97
R	46	P.D.	12-3-98

Report to accompany the Estimate for repairs to Pedda Tank No 61 of Gokavaram

Estimate Rs 6800

The Tank is situated to the north of the village of Gokavaram; its bund runs N&S. It is a very important tank being the head of the Gunderu river which feeds several tanks below. The tank was repaired under T R S estimate some years ago, and the bund generally is in good order and very nearly up to full height but is subject specially towards the Right flank to wave action. The bund from Right flank end to the 1st Sluice being particulary eroded. Some attempt was made to plant grass and with success, but as nobody cared for it, the villagers have allowed the cattle to graze it off, and it is therefore now proposed to replant the inner slope as shown in green with the same, and have two men to watch it for one year on Rs 4 per mensem each to look after water and conserve this and bund.

Sluices are all in good order.

The weir built in the same year is of inappropriate design, the soil is so bad, being yellow soft clay mixed with noddule lime, it becomes very soft when wet and hard when dry, the consequence being the weir has now been damaged, as shown on survey and separate plan, the drop to lowest point now being 13 feet and the damage has occurred from under the

differs from S.E.'s report

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS

~~G.O.~~	No.	Department.	Date.
I	158	I.D	5/10/97
R	233	P.D	27-4-97
R	260		18-11-97
R	46	P.D	12-3-98

258

Report to accompany the Estimate for repairs to Pedda Tank No 61 of Gokavaram

Estimate Rs 6,800

The Tank is situated to the north of the village of Gokavaram; its bund runs N&S. It is a very important tank being the head of the Gunderu river which feeds several tanks below. The tank was repaired under T.R.S estimate some years ago, and the bund generally is in good order and very nearly up to full height but is subject specially towards the Right flank to wave action. The bund from Right flank end to the 1st Sluice being particulary eroded. Some attempt was made to plant grass and with success, but as nobody cared for it, the villagers have allowed the cattle to graze it off, and it is therefore now proposed to replant the inner slope as shewn in green with the same, and have two men to watch it for one year on Rs 4 per mensem each to look after water and conserve this and bund.

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differs from S. E's report

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS

~~G.O.~~	No.	Department.	Date.
I	158	E D	5/10/97
R	233 pd		27-4-97
R	260		18-11-97
R	46 pd		12-3-98

258

Report to accompany the Estimate for repairs to Pedda Tank No 61 of Gokavaram

Estimate Rs 6800

The Tank is situated to the north of the village of Gokavaram; its bund runs N & S. It is a very important tank being the head of the Gunderu river which feeds several tanks below. The tank was repaired under T R S estimate some years ago, and the bund generally is in good order and very nearly up to full height but is subject specially towards the Right flank to wave action. The bund from Right flank end to the 1st Sluice being particulary eroded. Some attempt was made to plant grass and with success, but as nobody cared for it, the villagers have allowed the cattle to graze it off, and it is therefore now proposed to replant the inner slope as shown in green with the same, and have two men to watch it for one year on Rs 4 per mensem each to look after water and conserve this and bund.

Sluices are all in good order.

The weir built in the same year is of inappropriate design, the soil is so bad, being yellow soft clay mixed with noddule lime; it becomes very soft when wet and hard when dry, the consequence being the weir has now been damaged, as shown on survey and separate plan, the drop to lowest point now being 13 feet and the damage has occurred from under the

differs from S.E.'s report

whole Structure. It is now proposed to demolish the old weir, and utilize the Stone got therefrom in revetments and closing the breach and revetting its front Slope and build a new weir more to the right. Levels and Survey of the Site are herewith Submitted. The bed of the Stream on head of the Gundana has worked itself down to its lowest level now, and is not likely to go any more, this level is roughly +74.00

× × × × ×

Sd/ C. W. Fraish,
Sub Dl officer
Tank Sub Div

The design Submitted by the S.D.O for the weir has been altered in the Division office. The Site Selected for the weir is not all that could be desired, as the run off is Somewhat Confined by the high ground opposite, but it is the only one available. The Soil on which the weir is to be built is Sandy and very easily Scoured. An extensive apron is therefore provided in rear. It is considered that the Surplus Channel in rear will in time widen out, and to facilitate this, it is proposed to cut canals 10 feet wide through it, as Shown on the Site plan.

If necessary
the crests of
these [illegible]
stone [illegible]
might be raised
1½ feet each
JCL

The ground rises suddenly at the left flank and at first Sight a wing

appears unnecessary at this end, but as the ground is so very easily Scoured, it is considered unadvisable to leave an open flank near the masonry work. The Site of the old weir is to be closed with a bund and it is proposed to throw out Stone Spurs, at the right end of the weir in order to prevent the Surplus water rushing down the Scour in front of the old weir and damaging the new earthwork.

Executive Engineer
Godavari Western Dn

15/4/97

15/4/97

The new weir will be two feet longer than was the old one.

JCL
Superintending Engineer
1st Circle.

CHIEF ENGINEER
FOR IRRIGATION.
16 SEP. 1897
No 199 G.D.
3

No. 1368 D
18 APR. 97
5

18

No. 1075 G.D.

FROM

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

FIRST CIRCLE.

Enclosures. 6

TO

THE CHIEF ENGINEER

FOR IRRIGATION.

~~WALTAIR~~, Camp 10th September 1897.

1 Plan of weir
1 Survey.
1 Report
1 Data
1 Estimate (dxx)
1 Tabular Statt (will follow)

Recd today + put up with file
21/9/97

Mh

SIR,

I have the honour to submit the accompanying plan and Estimate amounting to Rs 6800 for constructing a Surplus Weir to Gokavaram Pedda Tank in the Godavari Western Dn. and to request that an early sanction of Government may be obtained to the same.

2. A Surplus weir was built to the tank in 1893, but it was seriously damaged by floods in the same year. The Ex. Engineer reports that the type of weir is so unsuitable to the circumstances of the tank that there is no doubt that the weir must be condemned and removed and a new weir of a suitable design constructed. Hence the submission of the present Estimate.

X
only in Sep/95.

3. The following papers accompany the Estimate.

1. Survey of the proposed weir site
1 Tabular Statement
1 Data Sheet
1 Report

4

CHIEF ENGINEER
FOR IRRIGATION.
16 SEP 1887
199 C.I.D.

FROM

SUPERINTENDING ENGINEER,
FIRST CIRCLE.

TO

THE CHIEF ENGINEER
FOR IRRIGATION.

DATED
DESPATCHED
RECEIVED } 189

No.

ENCLOSURES.

SUBJECT.

S. E. 1.
1 500—29-2-96.

4. The Exec. Engineer further reports that if the tank is made efficient 800 acres of land will, according to Tahsildar's statement be irrigated.

5. I have sanctioned an Estimate for repairing the bund of the tank.

6. The Exec. Engineer has been authorised to collect materials in anticipation of Sanction.

I have the honour to be,
Sir,
Your most obedt. St.

J. C.
Supdg. Engr. I Cir.

~~I have the honour to be,~~
10/9
~~Sir,~~
~~Your most obedient Servt.~~

~~Supdg. Engineer I Circle~~

CS
9.9.97