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Public Works (1899) Department.

G.O., No. 472 dl

DATED 8 June 1899

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[Despatch Abstract.]

Vriddachalam Anicut System

Estimate aggregating Rs 2,380 for constructing Mukkondam dam across the North main Channel, sanctioned.

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J.E. 2nd

[P. W. 25, 250-27-4-99.]

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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 {1899} of Madras.

PUBLIC WORKS.

Recd. } 1899. *Enclosures*
Regd. } *Spare copies*

G.O., No. 472 I., 8th June 1899.

JUNE.

Vriddhachalam Anicut System

Estimate, aggregating Rs. 2,380, for constructing Mukkondam dam across the North main channel, —, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

From the Superintending Engineer, V Circle, dated 19th April 1899, No. 160 E.I.

ENCLOSURE.

REPORT to accompany the estimate for constructing Mukkondam dam across the North main channel of Vriddhachalam Anicut System.

I. Amount of estimate ... ... RS. 1,920

II. The present irrigation under the Vriddhachalam anicut north main channel may be roughly stated as follows :—

	ACS.
Under Kammapuram dam at 2 $\frac{5}{16}$ mile	520
Under Sathappady dam (for which an estimate has been recently submitted) at 4 $\frac{1}{4}$ mile	130
Under Dharmanalloor and Valiyamadevi dam at 6 $\frac{3}{4}$ mile	1,550
Under Mukkondam dam under reference at 9th mile	1,500
Under other mud dams and tanks fed by the main channel below the 9 mile	1,700
Total irrigation ...	5,400

III. From this it would appear that the Mukkondam dam now estimated for forms one of the most important dams in the north main channel. It is situated at 9 miles below the head close to Valiyamadevi village, and has to supply Nellikkallai and Thurinjakkollai channel and tanks on left with 1,170 acres of ayacut and the Sinna Nerkonam channel and tank on the right with 230 acres of ayacut. There are nearly 100 acres of high level lands besides to be supplied by field channels on each side of the dam.

IV. A sketch of the site with the two branch channels and two field channels to be commanded by the dam is enclosed herewith. All these offtakes are now open-headed and their bed-fall being less steep than that of the main channel, sufficient supply does not pass into the branch channels unless during times of high floods, and hence the ryots are put to the necessity of erecting temporary mud dam with great difficulty at point X of the main channel (*vide* site sketch). As this earth bund is frequently washed away or breached by lower villagers the supply to the tanks under the branch channels seriously suffers. To avoid such difficulty and recurring expense of erecting and keeping up the objectionable earth bund across the main channel which has to supply several tanks and 1,700 acres in the lower reaches, the construction of a permanent masonry dam is now recommended and estimated for.

V. The estimate provides for a main dam of 2 open vents of 3′ 6″ each with upright groove stones of 3 feet height to receive cross planks during the morai days or times of low water. The left branch channel will have a head sluice in continuation of the wing wall of the main dam, the vent of the sluice being 6 feet wide with screw gearing shutter for regulation. The right bank will have a similar head sluice of 3 feet vent with screw gearing shutter. The field channel at each side of the dam will be allowed pipe sluices of 1 foot diameter through the splayed front wings of the main dam. The heads of these pipe sluices will be provided with shutters. Other details of the dam and sluices are given in plan sheet No. 1 and No. 2 accompanying.

VI. The sill of the dam will be placed flush with the existing bed of the channel + 51·50 which is 10 feet lower than the apron level of the next upper dam at 6 $\frac{5}{16}$th mile which gives an average fall of 3 $\frac{3}{4}$ feet per mile. The sills of the pipe sluices will be 1 foot higher to agree with the level of field channels and lands to be commanded.

VII. The site Y of the new dam will be about 250 feet higher up the site of the mud dam X and the branch channels will be taken off in diversion to join the old channels, puttah lands to necessary extent (*vide* sketch) being taken up for the purpose. The abandoned portions of the old channels will be filled in and the diversion of the branch channels dug out by the ryots themselves on the lines shown in site sketch. A sum of Rs. 90 only has been provided for land compensation against Rs. 136 that will be necessary for 54 cents to be taken up in consideration of the portion of abandoned channels that can be given in exchange.

VIII. The main channel with 14 feet bottom width and $\frac{1}{2}$ to 1 slope and 3 feet depth at F.S.L. and 3 $\frac{3}{4}$ foot fall per mile will carry 119 cubic feet per second sufficient for the ayacut under and below the dam allowing 27 acres per cubic foot. During the morai days and when the channel is very low, planks can be put across the main dam and 3 foot depth headed up to supply the left and right branch channels with 33 and 16 cubic feet per second respectively assuming a head of 2 inches between the front and rear water level in the branch channels. The right branch channel has been allowed twice the required waterway considering that it has to supply a tank and has to be given its full supply during the short morai period fixed for it.

(Signed) L. A. RANGASWAMI AIYAR,
Sub-Division Officer.

27th October 1898.

No. 112 I.

Note by the Chief Engineer for Irrigation.

The accompanying estimate, submitted by the Superintending Engineer, V Circle, provides for constructing Mukkondam dam across the North main channel, Vriddhachalam anicut system, for the better supply of two branch and two field channels which irrigate 1,500 acres. The amount of the estimate has been increased in this office from Rs. 1,920 to Rs. 1,950 owing to errors found in the detailed estimate. The estimate, as altered, may be sanctioned.

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

15th May 1899.

ORDER—No. 472 I., dated 8th June 1899.

The following estimate is sanctioned :—

Irrigation.
43. Minor Works and Navigation.
Minor Works for which Capital and Revenue Accounts are kept.
Vriddhachalam Anicut System.
Open Capital Account.
2. Main Canals and Branches.
North Main Channel.
Constructing Mukkondam Dam.

	RS.
2. Land—	
(1) Compensation for land	90
3. Regulators—	
(2) Constructing dam	1,860
Total, I. Works ...	1,950
II. Establishment ...	428
III. Tools and Plant ...	2
Total ...	2,380

2. This sanction is registered as No. 17 I. of 1899–1900 and will expire on the 31st March 1900.

(True Extract.)

Under Secretary to Government.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, V Circle, with seven enclosures.
" Examiner, Public Works Accounts.

Exd. A. Rungaswami Aiyar.

Public Works (1897) Department.

CURRENT No. 4520

4524

From The Chief Engineer for Irrigation

Order

No. 1123

Dated 15-5-99.

Received 3 6.6.99

Registered

Enclosures 7 5 (3 plans)

Spare copies.

SUBJECT.

Muthkondam dam across the north main channel Vriddhachalam Amalgamation Scheme. Estimate of Rs 2880/- for Construction - Note recommending for sanction the —

channel

BACK PAPERS.

No.	Date.

FURTHER PAPE

No.	Date.

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

A

Ryots H.E

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Estimate for constructing Mukkandam dam - Swtd No 7

From the Supg: Engineer 5th Circle – No. 160 E. I. dy 19th April 99

No 1120 dy 15.5.99

Quite principles

58

Note by the Chief Engineer for Irrigation

The accompanying estimate submitted by the Supg: Engr: 5th Circle, provides for construc-ing Mukkandam dam acros the North main channel, Vriddhachalam anicut system, for the better supply of two branch and two field channels which irrigate 1500 acres. The amount of the estimate has been increased in this office from Rs 1920 to Rs 1950 owing to errors found in the detailed estimate. The estimate, as altered, may be sanctioned.

Issue

31.5.99

WH

I

Order thereon.

No: 472 dy 8.6.99

The following estimate is sanctioned:—

Irrigation

proposition

A.G.H.

D

[illegible] period

channel

43. Minor works + Navigation.
Minor works for which Capital and Revenue Accounts are kept.
Vriddhachalam anicut system.
Open Capital Account.
~~1. Works.~~
2. Main canals + Branches.
North Main channel.
Constructing Mukkondam dam.
2. Land —
1 Compensation for land Rs 90.
3 Regulators —
2 Constructing dam — 1,860.
Total I. Works. 1,950.
II. Establishment. 428.
III Tools + plant 2
Total 2,380.

2. This sanction is registered as No. 17 I of 1899-1900 and will expire on the 31st March 1900.

15/6/99.

15.5.99

E. I. Form No. 5—500—1-11-97

12-5-99

To. 23/5/99

The Chief Engr for Irrign:
" Supt: — do — Circle
" Examiner P.W. Accounts

F.S.H. 295.99

C&S 26/4/99

Public Works (1899) Department.

CURRENT No. 28 S.A.

From The Supg. Engineer 5th Circle.

No. 160 E.I.

Dated 19th April 1899

Received 21- do

Registered

Enclosures 7

Spare copies

SUBJECT.

Mukkondam dam — Submit for sanction plans + estimate of Rs. 1920 for constructing across the North main channel, Vriddhachalam anicut system —

Order

Submitted

Sanction

WH 21/4

Cr. vcls 25/4/99

EJ

FBL

Re estimate has been D.E.J checked, and the amount increased by Rs 30/- owing to errors found in the detailed estimate —

The estimate seems to be within the power of S.E.'s sanction.

no

9/5/99

vcls 21/4/99

Dus 10/5/99

channel

BACK PAPERS.

No.	Date.

FURTHER PAPER

No.	Date.

Report to accompany the estimate for constructing Irukkondam Dam across the North main channel of Vriddhachalam anicut type 1950/-

I Amount of Estimate Rs 1900

II. The present Irrigation under the Vriddhachalam anicut north main channel may be roughly stated as follows-

Under Kammapuram Dam at 2 5/16 mile — 520 ac.

— Do — Salkattipady dam (for which an estimate has been recently submitted) at 4 1/8 mile — 130-00.

— Do — Dharmanallur & Valiyamadhi dam at 6 5/6 mile — 1550

Do — Irukkondam dam under reference at 9 1/4 mile — 1580

Do — Other bund dams and tanks fed by the main channel below the 9 mile — 1700

Total Irrigation 5400 ac.

III. From this it would appear that the Irukkondam dam now estimated for forms one of the most important dams in the north main channel. It is situated at 9 miles below the head close to Valiyamadhi village & has to supply Nellikollai & Thuruvajakollai channel & tanks on left with 1170 acres of ayacut and the Sirunallikonam channel & tank on the right with 230 acres of ayacut. There are nearly 100 acres of high level lands besides to be supplied by field channels

CHIEF ENGR. FOR IRRIGATION 21 APR 1899 1/28 S.A.

BACK PAPERS.

No.	Date.

FURTHER PAPERS

channels on each side of the dam.

IV. A Sketch survey of the site with the 2 branch channels & 2 field channels to be commanded by the dam is enclosed herewith. All these offtakes are now open headed & their bed fall being less than that ~~sufficient for supply~~ of the main channel sufficient supply does not pass into the branch channels unless during times of high flood. & hence the rysts are put to the necessity of erecting temporary mud dam with great difficulty at point X of the main channel (vide site sketch). As this earth bund is frequently washed away or breached by lower villagers the supply to the tanks under the branch channels seriously suffers. To avoid such difficulty & recurring expense of erecting and keeping up the objectionable earth bund across the main channel which has to supply several tanks & 1700 acres in the lower reaches, the construction of a permanent masonry dam is now recommended & estimated for-

V. The estimate provides for a main dam of 2 open vents of 3-6" each with upright grooved stones of 3ft height to receive cross planks during the inordinate days or times of low water. The left branch channel will have a head sluice in continuation of the wing wall of the main dam the vent of the sluice being 6ft wide with screw gearing shutter for regulation. The right branch will have a similar head sluice of 3ft vent with screw gearing shutter. The field channel at each side of the dam will be allowed pipe sluices of 1ft diameter through the splayed front wings of the main dam. The heads of these pipe sluices will be provided with shutters. Other details of the dam & sluices are given in the accompanying plan sheet No. 1 & No. 2

VI. The sill of the dam will be placed flush with the existing bed of the channel +51.50 which is 10ft lower than the apron level of the next upper dam at $6\frac{5}{16}$ to mile which gives an average fall of $3\frac{3}{4}$ ft per mile. The sills of the pipe sluices will be 1ft higher to agree with the level of field channels & lands to be commanded

VII. The site Y of the new dam will be

be about 250 feet higher up the side of the mud dam X and the branch channels will be taken off in diversion to join the old channels, such lands to necessary extent (vide sketch) being taken up for the purpose. The abandoned portions of the old channels will be filled in and the diversion of the branch channels dug out by the ryots themselves on the lines shown in the sketch. A sum of Rs 90 only has been provided for land compensation against Rs 136 that will be necessary for 52 cents to be taken up in consideration of the portion of abandoned channels that can be given in exchange.

VIII. The main channel with 14' bottom width & 1/2 to 1 slope and 3 ft depth at F.S.L and 3 3/4 ft fall per mile will carry 119 cft per second sufficient for the ayacut under & below the dam allowing 27 acres per cft. During the moral days & when the channel is very low planks can be put across the main dam & 3 ft depth headed up to supply the left & right branch channels with 33 & 16 cft per second respectively assuming a head of 2 inches between the front & rear water level in the branch channels. The right branch channel has been allowed

allowed twice the required waterway considering that it has to supply a tank & has to be given its full supply during the short moral period fixed for it.

Sub Division Officer
27.6.98

720.-14.4.98.

17.4.99

Off Supg. Engineer
5 Circle

No. 160 E. I.

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Chepâk, 19th April 1899.

From

J. B. Paul Esquire.
Offg. SUPERINTENDING ENGINEER,
V CIRCLE.

To

THE Chief Engineer
for Irrigation.

CHIEF ENG. & SEC. FOR IRRIGATION
21 APR 1899
28 S.A.

SIR,

I have the honour to submit for sanction and register number, the enclosed plans and estimate of Rs 1920/. for constructing Makkondam dam across the north main channel, Vriddhachelam anicut system, in Chidambaram taluk South Arcot Division

The necessity for the work is explained in the report attached to the estimate.

I have the honour to be,
Sir,
Your most obed.t Servant

J B Paul 19/4/99

Offg Supg. Engineer
V Circle

Enclosures. 7
1 sketch
2 Plans
1 Report
1 Statement
1 detail estimate
1 abstract do
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