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MADRAS RECORD OFFICE.

Government of Madras.

Police work DEPARTMENT.

G.O. No. <i>23461.</i>	Press Mis.
<i>62-63.</i>	
Dated <i>5-11-</i>	<i>1868.</i>

Not to be folded or roughly handled

No. 62. Read the following letter from the Superintending Engineer, 4th Division, to the Chief Engineer for Irrigation and Joint Secretary to Government, Public Works Department, dated Camp at Vellore, 29th June 1868, No. 1,538 :—

1 Survey.
2 Plans of masonry works.
1 Estimate, Rupees 5,200.
1 Ayacut Statement.

1. I have the honor to submit the papers, as per margin, connected with a project by Mr. Assistant Engineer Bevan, for widening and improving the

Kovaloor and Kovilavadoo Irrigation Channel, in the Wandiwash Talook, Polur Range, North Arcot District.

2. The details of the works proposed to be executed are,—lengthening the calingulah of Kovaloor tank; enlarging the channel from thence to the Ayelvady large and small tanks; strengthening and raising the bunds of the latter; widening and improving the channel from the Chittary to the Kovilavadoo tank; and strengthening and raising the bund of the latter tank.

3. The necessity for carrying out these works arises from the fact that, consequent on the improvements effected to the Cheyaur Anicut main channel as far as Kovaloor and Nullalem, a larger body of water will enter these tanks, which must be fitted to receive this augmented supply. In my letter, No. 1,045, dated 30th May 1868, estimates were forwarded for strengthening and raising the Kovaloor, Nullalem, and Naickenary tanks, and, properly speaking, the estimate now submitted should have been incorporated therein.

4. The estimate has been countersigned by the Collector of North Arcot in token of approval, and the Ayacut Statement, furnished by that Officer, shows that an increase of revenue, of Rupees 170, may be expected to accrue from the execution of the project, which is only about $3\frac{1}{4}$ per cent. on the contemplated outlay. It is desirable, however, to carry out the project on grounds irrespective of the increase of revenue. The project is connected with the Cheyaur Anicut system of works, and its execution will be a step towards completing those works, and thus developing their full usefulness.

Memorandum from the Chief Engineer for Irrigation, to the Secretary to Government, Public Works Department, dated Fort St. George, 15th October 1868.

1. The estimates, referred to in the foregoing letter, were originally submitted by the Superintending Engineer on the 29th June 1868. I returned them to Colonel Boileau, with a request that he would inform me whether the works were urgently required, because if they were not, it appeared to me highly desirable that all improvements, required for the final completion of the channels and tanks under the Cheyaur Anicut, should be made the subject of investigation and report. As it was proposed to carry out the works in question from the Loan Grant, it appeared likely that the Government of India, before being satisfied that an appropriation

from that source could properly be made, would require some further evidence than had been furnished that the works would be really advantageous; and I suggested that the entire project should be taken up, and that I should be placed in possession of information, which would enable me to report on what had already been done, the outlay incurred and revenue realised, and what still remained to be done to render the project complete in every respect.

2. According to the Remunerative Statement, submitted to Government by the Controller Public Works Accounts G. O., No. 3,896, dated 7th December 1867, on the 20th November 1867, the expenditure on new works, connected with the Cheyaur Anicut, amounted to Rupees 82,629, and the net returns for 1866-67 to Rupees 1,046, or to only 1½ per cent. on the outlay. In their Order, dated 8th July 1868, No. 2,167, the Government approved of three estimates, aggregating Rupees 12,000, for the improvement of three tanks under the Cheyaur Anicut main channel; but although the Superintending Engineer had represented that a number of small tanks would be benefited by the additional storage-room which would be obtained by this outlay, he was unable to give any assurance that an increase of revenue would be derived.

3. The estimates now submitted provide for an expenditure of Rupees 5,200 for improving the channel and subsidiary tanks which derive their supply of water from the Kovaloor tank, one of the three tanks for which the previous estimates referred; and, moreover, the tanks now to be improved are included in the list of those which were to be benefited by the improved storage power of the Kovaloor tank. It is to be regretted that the whole of the estimates had not been sent in together, especially as the Superintending Engineer states that the works are urgently required. They cannot be considered of a very satisfactory character. From the 17,200 Rupees proposed in all to be expended, a return of only 170 Rs., or one per cent., is expected, or less than the average return from the previous outlay. I conclude that the Government will consider it necessary to complete the project, and, on that ground, I would recommend the estimates for sanction.

4. The proposed works comprise an enlargement of the escapes of the Kovaloor and two other tanks from nine feet to eighteen feet; the widening out of the channel connecting them from six feet to fifteen feet at bed; raising the tanks three feet; and renewing part of the rough stone revetment. The works will be classified under the following heads:—

*CHEYAUR ANICUT SYSTEM.
Supply of Tanks.*

NEW WORKS.	Masonry	...	...	Rupees	545
	Earth-work	...	...	"	4,655
Total Rupees					5,200

(Signed) J. C. ANDERSON, Colonel, R. E.,
Chief Engineer for Irrigation.

No. 63. ORDER THEREON, 5th November 1868, No. 3,461.

IRRIGATION, No. 5.

1. In July last the Government applied for and obtained the sanction of the Government of India to estimates amounting to Rupees 12,000 for improving the Kovaloor, Naickenary, and Nullalem tanks under the Cheyaur Anicut in the North Arcot District. The Chief Engineer for Irrigation now submits a further estimate of Rupees 5,200 for improvements to the channel and subsidiary tanks that derive their supply of water from the Kovaloor tank, and he states that these works should properly have been included in the estimates above referred to.

2. As the proposed works form part of those which are required to complete the Cheyaur Anicut scheme, and to develop its usefulness, the Government sanction the estimate of Rupees 5,200; but as it is believed that they will not lead to any improvement of the revenue, their cost cannot, under the restrictions imposed by the Government of India, be charged to the extraordinary grant under "Agricultural." The Superintending Engineer will accordingly report whether he can provide the requisite funds by transfers from the ordinary grant under that head.

(True Extract.)

Colonel, R. E.,
Secretary to Government.

To the Chief Engineer for Irrigation.
" Superintending Engineer, 4th Division.
" Controller of Public Works Accounts.
" Accountant General.
" Revenue Department.

Exd. F. R. Bantleman.

No. 1538.

Camp Yellow 29th June 1868.

From,

Colonel A. J. M. Boileau R. E.
Superintending Engineer N. D.

To,

Colonel J. C. Anderson R. E.
Chief Engineer for Irrigation
and Joint Secretary to Government
Public Works Department

Sir,

I have the honor to submit the papers
as per margin connected with a project of
Engineer A. Boileau for widening and improving
the Kowiloor and Kowilavadoo Irrigation Channels
in the Wandiwash Taluk Polur Ridge North
Arcot District.

2 The details of the works proposed
to be executed are lengthening the Kalingula
of Kowiloor tank, enlarging the channel from
thence to the Agelady large and small tanks,
strengthening and raising the bunds of the
latter, widening and improving the channel
from the Chittary to the Kowilavadoo tank
and strengthening and raising the bund of
the latter tank.

3 The necessity for carrying out
these works arises from the fact that
consequent on the improvements effected
to

as far as Moulton and Moulton's bridge
body of water will enter these tanks which
must be fitted to receive this augmented
supply. In my letter of 2nd MS dated
3rd May 1858 estimates were forwarded for
strengthening and raising the Moulton
Moulton and Moulton's tanks and properly
speaking the estimate now submitted should
have been incorporated therein.

The estimate has been considered
by the Collector of North Arcot in letter of
approval, and the Agent statement furnished
by that Officer shows that an increase of revenue
of Rupees 170 may be expected to result from
the execution of the project, which is only about
3 1/4 per cent on the contemplated outlay. It
is desirable however to carry out
the project on grounds irrespective
of the increase of revenue. The
project is connected with the
Cheyarr Anikut system of works
and its execution will be a step
towards

towards completing ~~that~~ those works;
and thus developing their full usefulness.

I have the honor to be
Sir

Your most obedient servant

A. Poileau Colonel R.E.
Supy. Engr. H. M. G. 11

4370	2025	2610	5670
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Specimens from Cassio's Creek

Small	—	Arkansas	—	1	450	6	4	—	10800 ✓
Virginia Chelydra 9 and 18 ft									
Small	Arkansas	—	2	370	9	5	—	16600 ✓	
do	Arkansas	do	3	360	9	2 1/2	—	—	27200 ✓
do	do	do	4	610	9	4 1/2	—	—	24200 ✓
Commoner stones									
Small	Arkansas	—	5	370	9	2	—	—	18000 ✓
do	Arkansas	—	6	940	15	2	—	—	—

Strongly tinged by blacky sandstone
commoner stones and

Ark Co. Haining	450	9	3	12100 ✓	
do do	350	9	3	9100 ✓	
Commoner stones					
Ark Co. Haining	1 1/2	3			15750 ✓
Ark Co. Haining 9 and 18 feet					
do do	280	12	3	10800 ✓	
do do	350	15	3	18900 ✓	
Commoner stones					
Ark Co. Haining	1 1/2	9			14200 ✓
do do	1 1/2	1			595

Specimens from 100 ft. H.L.

500 ft. H.L.

LIST of Estimates of Irrigation Works in the District of NORTH ARCOT recommended for the Sanction of the Superintending Engineer.

[illegible]

Annual Migration from
Detailed Estimate by 54 of 1861
District North West
Taluk Wardnash
Channel from Goulcar to Lone Sea

Work
Improving and widening
the Channel from Embarras
to Coalawades large tank -

Estimate Rupees 5200

Auth

Sup Engineer's Office 4th Div.
Madras 5th October 1868.

N^o 3314

From

Colonel A. J. M. Poilem R.E.
Superintending Engineer 4th Division

To

Colonel J. C. Anderson R.E.
Chief Engineer for Irrigation and
Joint Secretary to Government P.W.D.

Sir,

Referring to your Memorandum
N^o 57 dated 27 July 1868. I have the
honor to state that the Cheygar works are
so nearly completed, there being only the
improvements to the Koviloon and Kov-
lavadu Channel and the Tetry branch
Channel remaining to be done, that the
suggestion made by you seems hardly
applicable, and is only calculated to lead
to delays.

2. The ^{main} Channel is reported to be
urgently required for the proper supply of
the Ayelady, Kovalaravados, and Koorat
tanks, and further to throw water from the
Coveloor tank fed by the Cheygar River to
feed

from the Handewash tank, now receiving
an uncertain supply from the Kalyan River.

3. There is nothing new in these pro-
posals, inasmuch as they formed part of
Captain Collyers original scheme; but like
many other parts of that scheme, was never
carried out.

4. Under these circumstances, I request
you will be good enough to lay the papers
before Government with your recommendation
for sanction, which it is hoped will be
accorded at an early date.

I have the honor to be
Sir

Your Most Obedient Servant

A. H. Niles Col R.E.
Superf. 4. D.

N. 256

North Arcot District

23

prepared
to

From
The Superintendent Engineer
St. Louis
To
The Chief Engineer for
Irrigation and Canal
Secretary to Government
St. Louis

Dated 5th
Recd 5th 1868

No. 3317.

W. 4009/68.

Reporting that the
Cheyenne works are nearly
completed and requesting
that the papers be sent
Government with his recom-
mendation for sanction.

No. 256

North West District
Polk Range Office
August 25th 1868

From
The Assistant Engineer
Polk Range
To
The Superintendent Engineer
St. Louis

With reference to your
memorandum No. 2890 of 30th July on a
Memorandum from the Chief Engineer
for Irrigation. I have the honor to
make the following remarks relative
to the Estimate for Pipes \$200 which I
submitted for cutting a branch channel
from the Cheyenne Main Channel at
the Councils Fork to supply the Apple-
valley, Coalbrook, Ironbrook, and Horse
shoe tanks.

The work was projected in Captain
Collyer's time as part of the original
project.

The work is most urgently required
to

to supply the three first mentioned tanks
for the wash tank receives water at
present from the clear river but as that
3. only floods once or twice in the year
it is very necessary that it should
have an assured supply from the
reservoir.

When this work and the improvement
to the Satrey branch Channel (now in
progress) are carried out the project
will be complete.

I am of opinion from close obser-
vation of the work for the past
three years that it will be necessary
to raise the sill of the head sluice
from $1\frac{1}{2}$ to 2 feet as the Channel has
now no fall for $2\frac{1}{2}$ miles from its head
if this is done the current will
have to be raised as well also the
piers of the head sluice.

The Channel is capable of carrying
much more water than the head works
can now supply and the extent of
Kunjah

Kunjah Cultivation is only limited
by the supply of water available.

I have the honor to be
Sir

Your most obt. Servt.

Messrs

Assistant Eng. P. M. Range

He is alluding
to the Head
Sluice
mean
at Junction

The estimates referred to in the foregoing letter were originally submitted by the Superintending Engineer on the 29th June 1866. I returned them to Colonel Maitland with a request that he would inform me whether the works were urgently required, because if they were not, it appeared to me highly desirable, that all improvements required for the final completion of the channels & ditches under the Schemar Arment, should be made the subject of investigation and report. As it was proposed to carry out the works in question from the Loan grant it appeared likely that the Government of India before being satisfied that an appropriation from that source could properly be made, would require some further evidence than had been furnished that the works would be really advantageous; and I suggested that the entire project should be taken up, and that I should be placed in possession of information, which would enable me to report on what had already been done, the outlay incurred and revenue realized, and what still remained to be done, to render the project complete in every respect.

According to the remunerative statement submitted to Government by the Controller Public Works Accounts on the 20th November 1867 the expenditure

G.O. 1st 3806.
dated 17 Dec 1867

From the
Superintending Engineer
at Calcutta
to the
Superintending Engineer
at Calcutta
Dated 20th August 1867
Received
12256
Superintending Engineer
for cutting a supply of
Channel from the Schemar
Arment to supply
the Schemar Arment
Channel & ditches
to be
12256/68.

no new works connected with the Chayan Ancient
amounted to Rupees 82,629 and the net returns
for 1866-67 to Rupees 10,156, or to only 12 1/2 per cent
on the outlay. In their order dated 5th July 1868
of 2167 the Government approved of three estimates
aggregating Rupees 12,000 for the improvement of
three tanks under the Chayan Ancient main chan-
nel; but although the Superintending Engineer
had represented that a number of small tanks
would be benefited by the additional storage ground
which would be obtained by this outlay, he was un-
able to give any assurance that an increase of revenue
would be derived.

3. The estimates now submitted provide
for an expenditure of Rupees 5,200 for improving the
channel and subsidiary tanks which derive their
supply of water from the Hoovalee. Tanks one
of the three tanks for which the previous estimates
referred; and moreover the tanks now to be improved
are included in the list of those which were to
be benefited by the improved storage power of
the Hoovalee tanks. It is to be regretted that
the whole of the estimates had not been put in-
together; especially as the Superintending Engineer
states that the works are urgently required.
They cannot be considered of a very satisfactory
character. From the 12,000 Rupees proposed in all to
be

be expended, a return of only 170 Rupees or 1 1/2 per cent³¹
is expected: or less than the average return from the
previous outlay. I conclude that the Government
will consider it necessary to complete the project,
and on that ground, I would recommend the
estimates for sanction.

4. The proposed works comprise an im-
provement of the escapes of the Hoovalee and two
other tanks, from 9 feet to 18 feet, the widening
out of the channel connecting them from 6 feet to
15 feet at the bottom, raising the tanks 3 feet and re-
moving a part of the rough stone revetment. The
works will be completed under the following heads
Chayan Ancient System.

Supply of tanks
Stone works - Masonry. 515
Cart tracks. 465
Rupees 5200

Fort George
15 October 1868

J. A. Macdonald Esq. A. S.
Chief Engineer for Irrigation

To
The Secretary to Government
P. M. Dep.

P. M. Dept.

No. 3461

Proceedings of the Madras Government.

Under date the 5th ^{Nov 1868} ~~October~~ 1868.

Read the following:

From the Chief Eng^r. for
Irrigation - (P. M. No. 3461 - 15 Oct 68)

In July last the Govern-
ment applied for and
obtained the sanction of the
Government of India to
expend amounting to Rs
12,000 for improving the
Koravoor, Naickanore &
Anallalur tanks under
the Chegar. Aricut in
the North Arcot District.
The Chief Engineer for Irriga-
tion now submits a further
estimate of Rs 5200 per

W. H. A.

21st Dec 1868

Approved by the
Chief Engineer
for Irrigation
to the Secretary
to Government
Madras
No. 3461. 3rd Dec 1868

improvements to the Channel
& Subsidiary Tanks that
derive their supply of water
from the Kooratole Tank. &
he states that these works
should properly have been
included in the estimates
above referred to.

As the proposed works
form part of those which
are required to complete the
Chagur Ancient scheme and
to develop its usefulness,
the Govt. sanction the estimate
of Rs 5,200; but as it
is believed that they will
not lead to any improvement
of the revenue, their cost
cannot, under the restrictions
imposed by the Govt of India,

be charged to the Extraordinary
grant under "Agricultural".
The Suptg Engr will ac-
cordingly report whether
he can provide the requisite
funds, ^{by transfers} from the ordinary
grant under that head.

[Signature]

To the Chief Engr for Irrigation ✓
" Suptg Engr & Dir ✓
" Controller ✓
" Asst Engr ✓
" Rev. Secy ✓

Recd 6/11/68

62-24
Cec 407
Cont. of 118681 Madras.

PUBLIC WORKS

Mr. Chief Engineer for
Madras

10-68

Remuneration Estimate of Rs 5200 for im-
proving the main and subsidiary tanks
that derive their supply of water from
the Korvalur Tank, North Arcot District,
Madras with remarks.

@ 21st Oct 1868