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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	<u>250</u>	Press
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Dated	<u>27-7-</u>	<u>1864.</u>

Not to be folded or roughly handled

PUBLIC WORKS DEPARTMENT,
FORT ST GEORGE, 27th January 1869

No 250

No. 593.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

CIVIL WORKS, No. 44

1. I am directed to acknowledge the receipt of your letter of the 1st September 1868, in which you communicate the orders of the Government of India on the Statements submitted by this Government, showing the Irrigation works projected and under construction in this Presidency, which it is proposed to treat as "Extraordinary," and in reply I am to submit the following explanations regarding the several works referred to.

2 The information required regarding the manner in which the income for water supplied to the town of Madras is proposed to be realized has been furnished in letter No. 3,410, dated 30th October 1863.

3 *Calingulah to Rajamah tank, Rupees 930* — This has been entered inadvertently among the works to be carried out from "loan" Funds. It is a non-delta tank in the Godavery, and the expenditure should be charged to the ordinary grant.

4. *Shutters for head and under sluices, Godavery Anicut, Rupees 7,920* — The Government of India suggest that this is a proper charge against Revenue, or in other words that it should be charged as a repair. But it is distinctly laid down in

* "The class" Original Works "will include all new construction, whether of entirely new works, or of additions and alterations to existing works. This class will likewise include * * * * all restorations or repairs of buildings or works which are to be brought into use after having been abandoned, or which are to be adapted to any new purpose" — *Bengal P. W. Code, Chap XII Sec 1, P. 2*

the Bengal Public Works Code and the Madras Code, that renewals* are to be considered as new works. Whatever the ruling in this case may be, it will have to apply to tanks and other works carried on from the ordinary allotment, and if it be to the effect that such works

are to be treated as maintenance, it will be necessary to alter the Code.

5. *Sloping down banks of Western Delta Main Canal from Vijashweram to Nidadivole, Rupees 5,660* — This is for improving the slopes of the natural channel leading from main head sluice, and for making a towing path. Both appear to be bona fide new works.

6. *Works for cross drainage of the Ellore High Level Canal, Rupees 1,05,486* — This is a supplementary estimate. The object and nature of the work is described in the Superintending Engineer's report (copy attached), from which it will be seen that the works are not in lieu of those which have been destroyed. One large

work, the aqueduct for the Tumulair near Ellore, as originally constructed, proved a failure, and the above estimate provides for the additions which were considered requisite to dispose of the floods of that river as well as for a number of masonry and other works. According to the regulations in force, the whole outlay should be charged to "New Works."

7 *Channel from Vencatagherry river to Chennoor tank, Rupees 22,400*—A copy of the Superintending Engineer's report is attached. The work is quite unconnected with the Pennair Delta, but it is at no great distance from it, and the same Officer has charge of both. It promises to be highly remunerative, and it may be conveniently included in the Revenue Account of the Pennair Delta works.

Under Rule XVII

8 *Improving embankment along south margin of Pennair weir at Nellore, Rupees 16,400*—The embankment is for the protection of the land under Nellore tank and the Delta lands beyond, from inundation. It will benefit the dry cultivation as well as the wet, but the Delta works would not be safe without it. In the statements which have been lately prepared of the past expenditure in the Godavery and Kistna Deltas, the outlay on river embankments has been included, and unless the principle is erroneous, it ought to be applied to this case.

9 *Works connected with the Palar Anicut system, Rupees 8,240 and 7,500. Works connected with the Cheyaur Anicut, Rupees 28,000, Rupees 3,900, Rupees 4,500, and Rupees 3,600*—It is impossible at present to give a satisfactory reply to the Government of India, with regard to these works. The remunerative statements heretofore furnished are, it is believed, unreliable, and the remodelling of them would be a most laborious operation, there being hundreds of tanks, which are more or less dependant on the Palar and Cheyaur Anicuts. The Government are of opinion that the doubt which has been thrown on the results of these works is in a great measure due to the impossibility of defining the limits to which the influence of the supply derived from the rivers in question extends, as distinguished from that obtained from local drainage, and it would appear to them highly desirable that instead of attempting to judge of the improvement of the revenue derived from a number of small works, individually, the revenue derived from the whole of the wet cultivation in the several talooks, to which the influence of any particular system of channels extends, should be compared year by year with the average revenue from the same area for a number of years prior to the construction of the works, and the increase placed to their credit in the annual revenue accounts. It is suggested that final orders as to the source from which the outlay on the works in question is to be met, may be deferred, until the revenue returns can be remodelled on these principles.

No 40—Constructing sluice and seven arches at the north extremity of the south branch of the Lower Coleroon Anicut	RS
No 41—Constructing apron at advanced portion of three sluices in the south branch of the Lower Coleroon Anicut	81,850
No 42—Completing wall and apron along south branch of Lower Coleroon Anicut	16,000
No 43—Collecting rough stone for the Lower Coleroon Anicut	70,400
	7,500

should, under existing rules, be considered as "New Works," though they will not

10. *Lower Cauvery works as per margin*—The estimates for these works provide for rebuilding the portion of the Anicut which was destroyed in 1865, for extending the lower apron, and providing it with a deep solid retaining wall, to prevent leakage through the old work; also for forming an extended apron of rough stone. The works have materially increased the strength of the Anicut, and

increase the revenue of the channels under them. As regards No. 43, however, "collecting rough stone, Rupees 7,500," sanction for it is not required, as it was only temporarily inserted in the Budget, until the sanction of the estimate for the complete work was obtained. This having been done, the item may be struck out.

11. The directly remunerative character of the improvements under consideration cannot be established, they can only have the effect of preventing an enormous loss of revenue, for such loss would certainly have been incurred, if they had not been carried out. This is a case not provided for in the rules regarding "loan" grants. The remark will also apply to various regulating works for the Cauvery, which have been already authorized and to others which are now being designed. A very large increase of revenue is not to be expected from them, but without them, the inequality in the proportion of the supply of water to area of cultivation, delivered in different parts of the Delta, which is already so great as to have caused considerable loss both to Government and the people in certain talooks, would go on increasing until very serious results would be liable to ensue. The Government are satisfied that the works in question are essential for the welfare of the most important district in this Presidency, as well as for the maintenance of the large revenue dependant on the Cauvery and its branches, and His Excellency in Council is of opinion that the outlay now being incurred or contemplated on the works connected with the Cauvery and its subsidiary channels in Trichinopoly and Tanjore, should be combined with the expenditure of past years, and compared with either the general revenue of the district or with that derived from wet cultivation only, also that, as such works would thus be credited, in common with those which have been constructed during the last thirty years, with a large increase of revenue, they would appear to be fully entitled to grants from the "loan" Fund.

No 45—Constructing surplus sluices for the Wyacondan channel	RS 16,500	discharge of surplus water, and no revenue will be derived from them. The former has been designed with a view to improve the scour near the head of the Wyacondan and to prevent it silting up, and the latter provides for the drainage of irrigated lands adjacent to the Coleroon. No. 47 is intended to supply water from the Cauvery to certain rain-fed tanks. The returns were originally estimated (in 1863) at Rupees 3,448, but this was before the reduction of assessment on the introduction of the new revenue survey and settlement of Trichinopoly. The Superintending Engineer is now of opinion that not one-half of that amount will be realized. He promises a fuller report on the subject hereafter. These works may properly be considered as part of the Cauvery system, and come within the scope of the remarks given above, in connection with the expenditure on the lower Anicut.
No 46—Ten surplus sluices on the north bank of the Coleroon	12,380	
No 47—Completion of Wyacondan extension project	24,800	

13 Nos 48, 49, and 50—Estimates for the works connected with the Godavery canals are being prepared with all possible despatch. No expenditure has been incurred on the Kistna Delta works except on sanctioned estimates.

14 No 58—The estimate for widening and deepening the branch channel from the main channel of the Cheyaur, has been submitted for the sanction of the Government of India.

15 No 62 is for a small sum sanctioned by Government in G. O., No. 1,833, dated 11th June 1868, copy of which is herewith forwarded.

No 63.—Plans and estimates of the Strivagoontum Project are now before
rument of India.

ements to eastern bank of the Kistna,
es 56,910

17 The remarks above in para-
graph 8 on a similar question raised
in connection with the Ponlan embank-
ment apply to this work also. The work is for the protection of the Delta generally.

18 The estimates for the improvement of the Chembrumbankum tank, are
now under revision.

I have the honor to be,
Sir,
Your most obedient servant,
(Signed) J. C. ANDERSON, Colonel, R. E.,
Joint Secretary to Government,
Irrigation Branch.

Exd. S. T. Augustin.

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The Secretary to the
Govt. of India.

Sir,

I am directed to ac-
knowledge the receipt of your
letter of the 1st Sept: 1888, in
which you communicate
the orders of the Govt. of India
on the statements submitted
by this Govt. showing the
Irrigation Works, projected
and under construction in this
Presidency, which is pro-
posed to treat as "extraordinary,"
and in reply I am to sub-
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Re-

regarding the general works referred to.

The information required regarding the manner in which the incomes for water supplied to the Town of Madras is proposed to be realized has been furnished in letter No. 3410 dated 30th October 1888.

Calicut to Rajamah.

Tank No. 930. This has

been entered inadvertently among the works to be carried out from "loan"

Funds. It is a non-Selkai tank in the Godaverry, and the expenditure should be charged to the ordinary grant

Shutters

"The class 'Original Works' will include all new construction, whether extensively new works, or of additions and alterations to existing works. This class will likewise include + + + + + all restorations or repairs of buildings or works which are to be brought into use after having been abandoned, or which are to be adapted to any new purpose" - Bengal P.W. Code. Chap. III - Sec. 1 - P. 2.

Shutters for Head and Under
Services, Godaverry, Ancient

No. 7, 920. The Govt. of India

suggest that this is a proper charge against Revenue, or,

in other words, that it should be charged as a repair. But

it is distinctly laid down in the Bengal Public Works Code,

and the Madras Code, that renewals are to be considered as New Works. Whatever

the ruling in this case may be, it will have to apply to

Tanks and other works carried on from the ordinary allot-

ment, and if it be the effect that such works are to be treated as maintenance,

it will be necessary to alter the Code.

Stopping

Sloping down banks of
Western Delta Main Canal
from Vijaiswaram to
Middadiwale No. 5660. This
is for improving the slopes
of the natural channel
leading from Main Head
Sluice, and for making a
towing path. Both appear
to be bona fide new works.

Works for cross drainage
of the Ellore High Level Canal
Rs: 1,05,486. This is a sup-
plementary estimate.

The object and nature of the
work is described in the
Superintendent's report, (copy
attached), from which it
will be seen that the
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proved a failure, and the
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were considered requisite
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that river as well. For a
number of masonry and
other works. According
to the regulations in force,
the whole outlay should
be charged to "new works".

Channel from Venkataswamy
River to Chennoor Tank.

Rs: 22,400- A copy of the
Engr:

Superintendent's report is attached.
The work is quite unconnected with the Pennair Delta, but it is at no great distance from it, and the same Officer has charge of both. It promises to be highly remunerative, and it may be conveniently included in the Revenue Account of the Pennair Delta works.

Under Rule XVII -

Improving Embankment
along South margin of
Pennair weir at Mellore
Rs: 16,400. The embankment is for the protection of the land under Mellore Tank and the Delta lands
he-

beyond, from inundation. It will benefit the dry cultivation as well as the wet, but the Delta works would not be safe without it. In the statements which have been lately prepared of the past expenditure in the Godavery and Krishna Deltas, the outlay on river embankments has been included, and unless the principle is erroneous, it ought to be applied to this case.

Works connected with the Palar
Ancient System. Rs. 8240 & 7,500.

Works Connected with the
Chengam Ancient. Rs: 28,000, Rs
3,900, Rs. 4,500, Rs. 3,600. It

is impossible at present
to give a satisfactory re-
ply to the Govt of India
with regard to these works.
The remunerative state-
ments heretofore fur-
nished are, it is believed,
unreliable and the re-
modelling of them would
be a most laborious
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on the results of these
works is in a great
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impossibility of defining
the limits ^{to which the influence} of the supply
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question extend, as dis-
tinguished from that
obtained from local
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of attempting to judge
of the improvement of
the revenue derived from
a number of small works,
individually, the re-
venue derived from ^{the whole of} the
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nels extends should

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be compared year by year with the average revenue from the same area for a number of years prior to the construction of the works, and the increase placed to their credit in the annual revenue accounts.

It is suggested that final orders as to the source from which the outlay on the works in question is to be met, may be deferred, until the revenue returns can be remodelled on these principles.

Lower Canvey Works as

per margin. The estimates

for these works provide

No. 40. Constructing a pier and seven arches at the north extremity of the South branch of the Lower Colerain Aqueduct. Rs. 81,500

for

for

No. 41. Constructing a pier at advanced portion of the sluice in the South branch of the Lower Colerain Aqueduct. Rs. 16,000.

No. 42. Completing wall & apron along South branch of Lower Colerain Aqueduct. Rs. 70,400.

No. 43. Collecting rough stone for the Lower Colerain Aqueduct. Rs. 7,500.

..

for rebuilding the portion of the Aqueduct which was destroyed in 1875, for ex-

tending the lower apron, and providing it with a

deep solid retaining wall, to prevent leakage

through the old work; also for forming an ex-

tended apron of rough stone. The works have

materially increased the strength of the Aqueduct,

and should, under existing rules, be considered

as "New Works", though they will not increase the revenue

of the channels under them.

As regards No. 43, however, "collecting rough stone,"

Rs.

Rs. 7,500" sanction for
it is not required, and
was only temporarily
inserted in the Budget,
until the sanction of the
estimate for the com-
plete work was obtained.
This having been done,
the item may be struck
out.

The directly re-
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of the improvements un-
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if

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rules regarding "loan"
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Cauvery, which have
been already authorized
and to others which are
now being designed. A
very large increase of
revenue is not to be ex-
pected from them, but
without them, the in-
equality in the proportion
of the supply of water to
area of cultivation, de-
livered in different parts
of the Delta, which is al-
ready so great as to have

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Caused considerable loss
both to Govt. and the people
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are satisfied that the
works in question are
essential for the wel-
fare of the most impor-
tant District in this Presi-
dency as well as for the
maintenance of the
large revenue dependant
on the Cauvery and its
branches, and His Ex-
cellency in Council is of
opinion that the outlay
now being incurred or
contemplated on the
works

works connected with the
Cauvery and its Subsidizing
Channels in Trichinopoly
and Tanjore, should be
combined with the expendi-
ture of past years, and
compared with either the
General revenue of the
District or with that de-
rived from water cultiva-
tion only, also that, as
such works would thus
be credited in comparison
with those which have
been constructed during
the last 30 years, with a
large increase of revenue,
they would appear to be
fully entitled to grants
from the "Loan" Fund.

No. 45 and 46 are
works for the discharge
of surplus water, and no
revenue will be derived
from them. The former
has been designed with a
view to improve the
scour near the head of
the Wyandam and to
prevent its silting up, and
the latter provides for
the drainage of irrigated
lands adjacent to the
Coleroon. No. 47 is in-
tended to supply water
from the Canvey to
certain raised banks.
The returns were origi-
nally estimated (in 1863)
at Rs. 3448, but this was
he.

No. 45. Constructing Surplus
Shutes for the Wyandam
dam Channel — Rs. 1,500

No. 46. Ten Surplus Shutes
on the north bank of
the Coleroon — " 12,380

No. 47. Completion of Wy-
andam Extension
Dam Project — " 24,800

before the reduction of
assessment on the intro-
duction of the new revenue
law and settlement
of Elichiripalay. The Eng-
lish is now of opinion
that not one half of
that amount will be
saved. He promises a
further report on the sub-
ject hereafter. These
works may properly
be considered as part
of the Canvey system,
and come within the
scope of the remarks
given above in con-
nection with the ex-
penditure on the Lower
Canal.

No.

Nos 48, 49, 50. Estimates for the works connected with the pottery Canals are being prepared with all possible dispatch.

No expenditure has been incurred on the Rickua Delta works except on sanctioned estimates.

No 58. The estimate for widening and deepening the branch Channel from the main Channel of the Cheyaur, has been submitted for the sanction of the Govt. of India.

No 12. As for a small sum sanctioned by Govt. in F. O. No 1833 of

No 7.

11 June 1868. Copy of which is herewith forwarded.

No 13. Plans and estimates of the Trinivartun Project are now before the Govt. of India.

Improvements to Eastern Bank of the Rickua
Rs. 56,910.

[Faint, illegible handwritten text]

The remarks above in para on a similar question raised in connection with the Purnair subcontinent apply to this work also. The work is for the protection of the Delta generally.

The estimates for the improvement of

of the Chembrunbankum
Lank, are now under
revision.

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Fort St. George
27th Decr 1869

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Recd 29/1/69 with copy
of 732 by 2520 of Aug 1865 3/10
of Oct 1865 of 1865
and 1853 of June 1865

26-53
Court of 1869 Madras.

PUBLIC WORKS.

To The Secretary to the Govt.
of India
P. N. O.

Dated

Recd

Per

G. O. 27th Aug 1869, No 250

Nos. 573

Irrigation Works The Govt of India
furnished with explanation
regarding certain irrigation
works, proposed and under
construction in the Madras
Presy which it is proposed
to treat as "Extraordinary"