

M.R.O. 1—27,006—3-6-81.

(1) Number of pages.....

(2) Date of repair.....

(3) Initials of the Reference.....

MADRAS RECORD OFFICE.

Government of Madras.

Public (Cooperation) DEPARTMENT.

G.O. No. 389 Dated 14 12 18 Press Mis.

Not to be folded or roughly handled

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, *14th December* 1868.

No. 3,892.

No. 309.
To

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

SIR,

IRRIGATION, No. 15.

1. With reference to Clause IX of paragraph 3 of your letter of the 1st September 1868, No. 132 A, I am directed to forward herewith plans with estimates amounting to Rupees 13,350 for a channel, eleven miles in length, from the terminus of the eastern side channel of the Masulipatam Canal near the Ankumurroo Lock to Gokaveram in the Kistna District.

2. The object of this extension is to bring under irrigation a tract of land, the productive power of which has been much impaired since its inundation by the sea during the cyclone of November 1864. The area which will be immediately benefited by the proposed works is stated to be 2,087 Acres, the water rate on which will be Rupees 8,348, or upwards of sixty-two per cent. on the probable outlay, and it is believed that eventually a larger extent of land will be taken up for cultivation.

3. The channel will have a slope of three inches per mile, with a width varying from twenty-two to four feet, and a depth of three feet throughout.

4. As the project promised to be highly remunerative, it was sanctioned by Government in February last; but as it now appears that the work is identical with that forming Item No. 147 of the current year's Budget for which a sum of Rupees 6,000 has been provided from the Extraordinary Agricultural Grant, I am to solicit the sanction of the Government of India to the estimate of Rupees 13,350.

I have the honor to be,
Sir,
Your most obedient servant,
(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Exd. S. T. Augustin.

para. 3. Calcutta & Rajmahal Tank R. 930

This has been entrusted to a Contractor among the works to be carried out from loan funds. It is a non-Metal Tank on the ordinary & the estimate should charged to the ordinary Tank-

Sluices. for Head and Cross-Sluices Regulating Account- Rs 7920. The Superintending Engineer suggests that in lieu of these words that it should be charged as a Work. But it is distinctly laid down in the Bengal P. W. Code, & the Madras Code, that Temporary ... are to be considered as part of the work. Whether the ruling in the case may be, & both have to apply to Tanks, and these works, should be carried on from the ordinary allotment.

Closing down Gates of Western Distributary from Rajmahal to Godda Road- Rs 5660 This is for suppressing the Scour of the natural Channel leading from the Head Sluices and for the closing a Cross bank- Both appear to be bona fide item works —.

works for cop drainage of the Ellore Lake
Level Canal Rs 1,05,486. - The
is a supplementary estimate - the
object and nature of the works is
described in the Supdg. Engr. abstract
(copy attached) / some of which it will
be seen that the works are in part
in lieu of those which have been
destroyed. One large work - the aqueduct
for the Tirumalair canal Ellore, as
originally constructed proved a
failure; & the atom estimate provides
for the additions which were con-
sidered necessary & the future to
pass the expected flood of that
flood of that nature - According
to the regulations as fixed, the which
anicut, Mr. Reed. & changed to
"new works" -

Channel from Venkatagherry Reservoir
to Cheruvoor Tank Rs. 22400.

A copy of the Supdg. Engr's report
is attached. The work is quite
non-connected with the Peruvai drain
but it is at the great distance from
it and the same officer has
charge of both. It proposes to
lightly remunerative, and it may
be convenient - included in the
Revenue account of the Peruvai

Improving Embankment along south margin
of Peruvai near Nellore - Rs. 16,400 - The
Embankment is for the protection of the
land under Nellore Tank & the Orlea
land beyond. The same object. It will
benefit the dry cultivation as well as
the wet: but the Orlea works proposed
will be safe enough - In this State
ments which have been lately prepared
of the past expenditure in Godavery &
Kistna Orlea. The outlay on River
Embankments has been included -
and under the principle Erroneous,
& ought to be applied to their case -

Works connected with the Palar Anicut
System - Rs. 8240, & 7500. -

Works connected with the Cheyair Anicut
Rs. 28000, Rs. 3900, Rs 4500. Rs 3600.

It is impossible at present to give
a satisfactory reply to the Govt. of
India, with regard to these works.

The recommendation of Statements here to
furnished can not be followed as re-
gards the remodelling of them
would be a most laborious
operation: there being hundreds of
Tanks, which do serve as Cross de-
pendent on the Palar & Cheyair
Anicuts - Taking the Nellore

Estimate for 1866/67 — for the Palace Ground
as it stands; it would require three
men all the year round
Gong. Mr. at 2/2 per cent;
Two Chargemen Account at rates
the whole year at only 1½
per cent. My suggestion that
final orders as to the Tower
which the rubbish in the
Moats in Queen's & the Keep,
shall be deferred, until the
Estimate Interior with the Subjection
to first in Common Council
Lower Courts works —

Contractors at St. L. Rs. 81,880
Contingencies upon the 16,000
Completing Work to 70,400
Collecting Inspection 7,800 — Office

These works
are all perfectly
the Reconstruction
of a portion of the
Lower Ordnance Ground
and Curtain Palace
& the whole works

VII

VII

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To The Secretary to the
Govt. of India.

Sir,

I have received &
understand the Secretary
of State's letter of date 4th
Sept. 1858, in which you
communicate the orders
of the Govt. of India on the
Statements submitted by
this Govt. relating the
Expenditure &c, &c.,
called and under Con-
sideration in this Presi-
dency, which it is pro-
posed to treat as
"Extraordinary", and

you

in reply I am to sub-
mit the following ex-
planations regarding the re-
vised works referred
to in para 3.

Vellingda to Rajanah
Tank - Rs:930. This has
been entered inadvertently a-
mong 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.

Shutters for Head and Under
Sluices, Godavery, Anicut -
Rs:7,920 - The Govt of India
suggest

* "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 Pub. Code. Chapter XII. Sec: 1. P: 2

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 allotment.

Sloping down banks of
Western Delta Main Canal
from Tajashweram to
Bridadivole - Rs:5.660 - This
is for improving the slopes
of the natural channel

leading

leading from Main Road
Sluice, and for making
a Roving Path. Both
appear to be bona fide
new works.

Works for cross Drainage
of the Ellore High Level Canal-

Rs: 1,05,480- This is a Sup-
plementary estimate. The
object and nature of the
works is described in the
Supt Engineer's Report
(Copy attached), from
which it will be seen
that none of the works
are not in lieu of those
which have been destroyed.
The large work, the aqueduct
for

for the Tunnelair near
Ellore, as originally con-
structed, proved a failure,
and the above estimate pro-
vides for the additions which
were considered requisite
to dispose of the floods of
that River. According to
the regulations in force, the
whole outlay should be charged
to "New Works".

Channel from Vencatagherry
River to Cheenoor Tank-

Rs: 22,400- A copy of the
Supt Engineer's report is attached
The work is quite unconnected
with the Veeraair 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

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included in the Revenue Account of the Kumair Delta works.

Improving Embankment along South margin of Kumair weir at Nellore Rs: 16,400- The embankment is for the protection of the land under Nellore Tank and the Delta lands be-yond 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 Godaveryand

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.

Works connected with the Polar Anicut System - Rs: 8,240 and 7,800- Works connected with the Cheyaur Anicut. Rs: 28,000, Rs: 3,900, Rs: 4,800, Rs: 3,600.

It is impossible at present to give a satisfactory reply to the Govt. of India with regard to these works. The remunerative statements hereto furnished are if is believed unreliable

and

and the remodelling of them would be a most laborious operation, there being hundreds of banks, which are more or less dependant on the Palar and Cheyaur Anicuts taking the remunerative return for 1884-85 for the Palar Anicut as of standard, it would appear that the net income for the year was 9 p.C. or Rs: 2/4 per cent. From the Cheyaur Anicut works the returns were given at 1/4 per cent. It is suggested that final orders as to the course from which the outlay on the works

in question is to be met, may be deferred, until the revenue returns can be subjected to fresh examination.

Lower Coleroon 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 should

No 40. Constructing a sluice and Lenen arches at the north extremity of the South branch of the Lower Coleroon Anicut — Rs. 81,880.

No 41. Constructing a renewed portion of three sluices in the South branch of the Lower Coleroon Anicut — Rs. 15,000

No 42. Constructing wall and apron along South branch of Lower Coleroon Anicut — Rs: 70,400

No 43. Collecting rough stone for the Lower Coleroon Anicut. Rs. 7500.

a under existing rules, be
b considered as "new works",
c though they will not in-
d crease the revenue of the
e channels under them.
f As regards No 23, however,
g "collecting rough stone.
h Rs: 7,500" Sanction for it
i is not required, and was
j temporarily inserted in
k the Budget, until the
l sanction of the estimate
m for the complete work was
n obtained. This having been
o done, the item may be
p struck out.

The directly remunerative
q character of the improvements
r under consideration cannot
s be established; they can

only

only have the effect of pre-
venting 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 "loans"
grants. The remarks 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 ex-
pected from them, but
without them, the inequality
in the proportion of the sup-
ply of water to area of cul-
tivation delivered in dif-
ferent parts of the delta,

Which

which is already so great as to have caused considerable loss both to Govt. and the people in certain Talugs, would go on increasing, until very serious results would be liable to ensue. In the event of the Govt. of India being 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, it will rest for them to determine whether their cost is to be defrayed from "Land" funds, or by a special addition from the ordinary sources.

No. 45. Constructing surplus Sluices for the Wyacondum channel Rs: 16,500

No. 46. Ten surplus Sluices on the north bank of the Coleroon — " 12,380

No. 47. Completion of Wyacondam Extension Project — 24,800

Nos. 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 Wyacondam 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 ryotwar Tanks. The returns were originally estimated (in 1803) at Rs: 3448, but this was before the reduction of assessment on the introduction of the new revenue survey

and

and settlement of Tricki-
noply. The Engineer
is now of opinion that
not one half of that
amount will be realized.
He furnishes a fuller
report on the subject
hereafter.

Nos 48, 49, 50. Estimates
for the works connected
with the foregoing Canals
are being prepared with
all possible despatch.
No expenditure has been
incurred on the Richmond
Delta works except on
sanctioned Estimates.
estimate for
No 58. The widening and
deepening the branch
Channel from the main

Channel

Channel of the Engineer, has
been submitted for the consi-
deration of the Board of Works.

No 52. Sir Cornwallis Dowe-
Commissioned by Report in H.R.
No 1833 dated 11th June 1864.
Copy of which is herewith
forwarded.
The Report of the
Engineer in charge of the
Works specified in the Remarks above
in favor of a diversion
Proposal is raised in Con-
nection with the Canadian
Southern Railway
& the works also. The work
is for the protection of the
Delta Channels.
The estimates for
the improvement of
Chemainus Harbour Work
are now under preparation.

The

E- Improvements to Harbour
Bank of the Chemainus
No: 51, 9 10.

The information
required regarding the
manner in which the
income for water supp.
plied to the town of
Madras is proposed to be
realized has been fur-
nished in letter No 8410
dated 30th October 1868.

29.

No 3892

To

The Secretary to the
Government of India

&c. &c.

With reference to Clause
IX. of Para 3 of your letter
of the 1st Sept: 108, No 132 A.
I am directed to forward
herewith plans with estimate
amounting to Rs 13,350 for
a Channel eleven miles in
length from the terminus of
the eastern side Channel of
the Masulipatam Canal
near the Ankammavaru
Locks to Gokaveram in
the Kistna District.

The object of this

extension is to bring under irrigation a tract of land, the productive power of which has been much impaired since its inundation by the sea during the Cyclone of Nov. 1864. The area which will be immediately benefited by the proposed works is stated to be 2057 Acres, the water rate on which will be Rs 5348, or upwards of 62 per Cent on the probable outlay, and it is believed that eventually a larger extent of land will be taken up for cultivation.

The Channel will have a slope of 3 inches per mile, with a width varying from 22 to 6 feet and a depth of 3 feet throughout.

To the largest proposed to be slightly remunerative, it was sanctioned by Govt. in February last; but as it now appears that the work is identical with that forming Item No 169 of the Current years Budget for which a sum of Rs 6000 has been provided from the Extraordinary Agricultural grant, I am to solicit the sanction of the Govt of India to the estimate of Rs 13,350.—

Asst Surgeon
14 Dec 1865

Despe 15/12/65 with enclosures
Govt. two Detailed Estimates, two
Abstract Estimates one Specifn
Memo with Plan

Govt. of Rajasthan

PUBLIC WORKS

To The Secretary to the Govt
of India.

Nos. 309

Dated

Dated

Dated