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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.

1781

B.P. No.

Press

Mis.

Dated

4-7-

C876

195

Not to be folded or roughly handled

Read the following papers :—

Read the following papers :—

No. 59. From Captain R. F. TAYLOR, Acting District Engineer, Kurnool, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Kurnool, 7th May, despatched 29th May 1874, No. 5.

I HAVE the honour to submit certain estimates for sanction (the works were commenced by order of the late District Engineer on emergency and have already been completed), by some accident or other the papers were mislaid by Mr. Fraser, and I have only just got possession of them.

2. *Gudur large Tank, Estimate Rupees 600.*—The amount of estimate is over one year's revenue, but under two; it was absolutely necessary to thoroughly secure this work as it commands the large village of Gudur (containing a population of 9,000), as also the small tank of the same name which was also breached in eleven places, owing to the bund of the large tank giving way.

3. *Vapadinna Tank, Estimate Rupees 97.*—A small estimate for 97 Rupees was sanctioned for closing leaks in this tank. Two estimates, prepared by Mr. Fraser for this work, were sanctioned in 1871-72; the repairs were executed by his successor Supervisor Hayes, and although Rupees 700 have been expended the embankment leaked very badly at the breach; in fact, the work did not remain water-tight for one season. With the aid of village labour I succeeded in closing all the dangerous leaks at the toe of the breach, but the upper portion of the bund had to be estimated for as the earth was constantly slipping, having been loosely thrown up.

4. *Gubbur large and small Tanks, Estimate Rupees 377.*—A light bank running at right angles to the main embankment, and dividing it unequally has given two names to this reservoir; the bund was breached and repaired by Mr. Bell on emergency.

No. 59A. *Note by the Chief Engineer for Irrigation.*

No. 59A. *Note by the Chief Engineer for Irrigation.*

CERTAIN estimates for tank repairs which have been carried out as emergent works under the orders of the late District Engineer, Kurnool, have been transmitted for sanction, the amounts being in excess of the limit within which estimates can be sanctioned locally :—

Chakla large Tank, Estimate Rupees 600.

Gudur large Tank, Estimate Rupees 600.

Gudur large Tank, Estimate Rupees 800.

Ayacut area...	...	...	...	...	...	Acres	95
Do. assessment ...	...	...	...	...	...	Rupees	465

... amount upon this tank. From the sections it a

In 1869-70 Rupees 259 were spent upon this tank. From the sections it appears that the bund has been raised to 4 feet above full tank level, and that it is supposed that the water may rise 1.20 feet above the latter, leaving 2.80 feet of bund above this maximum. If, however, the area of the drainage basin of the tank has been correctly stated at $7\frac{1}{2}$ square miles, the maximum flood discharge will be about 2,144 cubic feet per second, and the water would, with the 50 feet of surplus weir available, rise much above the level of the top of the bund, and the tank would therefore again be breached. West of the escape there appears to be a length of some 230 feet of ground which might be levelled and formed into a supplemental escape, at a level of, say, 6 inches above the crest of the masonry weir, and the tank would then be safe, as the maximum rise in the water above full tank level would probably not exceed 21 or 22 inches. A rough stone pavement will pro-

Proceedings of the Madras Government, Public Works Department,
4th July 1874.

bably suffice for this supplemental escape. The whole of the earthwork in the estimate for this tank is entered at a rate of 3 annas a cubic yard, a price which is quite unnecessary for ordinary tank repairs, though it may sometimes be not unreasonable for special work, such as filling breaches. No time should be lost in providing the additional means of disposing of surplus water.

Vapadinna Tank, Estimate Rupees 97.

Area of irrigation about	Acres	27
Revenue highest	Rupees	178
Do. average		75

Rupees 700 were spent upon this tank in 1871-72, and it is stated that the present estimate is needed to make good slips, etc. The estimate rates are very high, and that for excavation, 2 annas, would appear to be excessive unless the soil be harder than the circumstances render probable. About 10 years' revenue will have been spent, and it is to be hoped that no further outlay will be needed for many years. The District Engineer must take care that the escape weirs are fully adequate, otherwise all the money expended may prove to be useless:—

Gubbur large and small Tanks, Estimate Rupees 377.

Avacut area	Acres	43
Do. revenue	Rupees	459
Average do.		261
Highest do.		344

Rupees 308 were spent in 1867-68 on repairs. Judging by the longitudinal section, the breaching of this tank was due to inadequate means of escape for flood waters; nothing, however, has been said on the subject, and the District Engineer should at once ascertain what the circumstances are, and take care that future accidents from this cause are rendered at least highly improbable.

2. As these estimates have been already carried out, formal sanction to them may be accorded.

OORACAMUND,
10th June 1874.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 60.

ORDER THEREON, 4th July 1874, No. 1,791.

IRRIGATION, No. 7.

THE following estimates for the repair of tanks in the Kurnool District are sanctioned:—

Gudur large tank	Rupees	600
Vapadinna do.		97
Gubbur large and small tanks		377

2. The District Engineer will give immediate attention to the requirements of all these tanks as regards the disposal of surplus water.

(True Extract.)

Lieut.-Colonel, R.E.,

Joint Secretary to Government.

To the Chief Engineer for Irrigation.
" District Engineer, Kurnool.
" Officiating Controller of Public Works Accounts.

Ed. S. T. Austin.
Spare Copies

125.

District Engineer Office.

Kurnool, 7th May, 1874.

Recd on the 29th do

From,

The Dy District Engineer,
Kurnool.

To,

The Chief Engineer
for Irrigation,
Kurnool.

Sir,

I have the honor to submit certain estimates for sanction (the work were commenced by order of the late District Engineer on emergency and have already been completed) by some accident or other the papers were mislaid by Mr Fraser and I have only just got possession of them.

Gudur large Tank. The amount of Estimate Rs 600. Estimate is over one years revenue but under two, it was absolutely necessary to thoroughly secure this work as it commands the large village of Gudur containing a population of 9,000 as also

the small tank of the same name which
was also breached in 11 places owing to
the Bund of the large tank giving way.

Vapadium Tank is small estimate
Estimate Rupees 97 for 97 Rupees was
sanctioned for closing leaks in this tank.
Two estimates prepared by Mr Fraser for
this work were sanctioned in 1871-72,
the repairs were executed by his successor
Superior Hayes; and although Rs 700
have been expended the embankment
leaked very badly at the breach, in fact
the work did not remain water tight
for one season. With the aid of village
labor I succeeded in closing all the
dangerous leaks at the top of the breach
but the upper portion of the bund had
to be estimated for as the earth was
constantly slipping having been loosely
thrown up.

Gubbur large and small tanks. } A light
Estimate Rupees 877. } bank

running at right angles ^{to} the main
embankment, dividing it unequally
has given two names to this reservoir
the bund was breached and repaired
by Mr Ball on emergency.

I have the honor to be
Sir,
Your Most Obedt Servant.
P. F. Deane Captain
Ag District Engineer.

Compd. G. E.

dlh 16

Note by the Chief Engineer for Irrigation
 Certain estimates for Tank repairs,
 which have been carried out as
 emergent works under the orders
 of the late District Engineer,
 Kurnool, have been transmitted
 for sanction, the amounts being
 in excess of the limit within
 which estimates can be sanc-
 tioned locally.

Grader Large Tank. Estimate Rupees 600
 by acent area 95 acres
 — — — — — aseptment 465 Rupees
 In 1869-70. Rupees 259 were
 spent upon this Tank. From
 the sections it appears that
 the bund has been raised
 to 4 feet above full tank le-
 vel, and that it is supposed
 that the water may rise 1.20
 feet above the latter, leaving
 2.80 feet of bund above the
 maximum. If however the area
 of the drainage basin of the
 Tank has been correctly stated
 at $7\frac{1}{2}$ square miles, the maximum
 flood

From, *C. E. No. 1017*
 the Dy. Dist Engineer,
 Kurnool,

To,
 the Chief Engineer
 for Irrigation.

Dated 7th May 1874.
 927
 Rupees 29.00
 Rs. 22.00 Rupees - 74

For sanction
 of certain estimates
 for irrigation.

Rs. 97.374 9/4
 74th July 1874
 P. S. 74th July 1874
 In 8th May 59

flood discharge will be about 2144 Cubic Feet per second, and the water would, with the 50 feet of surplus weir available, rise much above the level of the top of the bund, and the tank would therefore again be breached. West of the escape there appears to be a length of some 230 feet of ground which might be levelled and formed into a supplemental escape, at a level of say 6 inches above the crest of the masonry weir, and the tank would then be safe, as the maximum rise in the water above full tank level would probably not exceed 21 or 22 inches. A rough stone pavement will probably suffice for this supplemental escape.

The whole of the earthwork in the estimate for this tank is entered at a rate of 3 annas a cubic yard, a price which is quite unnecessary for

for ordinary tank repairs, though it may sometimes be not unreasonable for special work such as filling breaches.

No time should be lost in providing the additional means of disposing of surplus water.

Yapadinna Tank estimate Rupees 97

Area of irrigation about 27 acres

Revenue highest Rupees 178

— " — average — " — 75

Rupees 700 were spent upon this tank in 1871-72, and it is stated that the present estimate is needed to make good slips.

The estimate rates are very high, & that for excavation 2 annas would appear to be excessive unless the soil be harder than the circumstances render probable. About 10 years' revenue will have been spent, and it is to be hoped that no further outlay will be needed for many years. The District Engineer must take

care

care that the escape weirs
are fully adequate, otherwise
all the money expended may
prove to be useless.

Gubbur Large & small Tanks Estimate Rupees 377.

Approx area acres 43

Revenue Rupees 459

Average do do 261

Highest do do 344

Rupees 308 were spent in 1867-68
on repairs. Judging by the
longitudinal section, the
breaching of this tank
was due to inadequate
means of escape for flood
waters; nothing however
has been said on the sub-
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from this cause are rendered
at least highly improbable

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been already carried out, for-
mal sanction to them may
be accorded.

Potaiamund } Volundunins St. H. R. S.
10 June 1874 } Chief Eng^r for Irrigation

The Secretary to Govt. P. W. D.

P. W. 1874 Report
Proc of Govt for July
No 3749.

From.

The Chief Engineer
for Irrigation

Dated 10th
Recd 20th } June 1874.

Enc: 10. +

+ 2 plans.

M. J. M.

Note on a letter
from the District Engineer,
Kurnool, submitting
certain estimates for the
repair of tanks.

G.O. No: 1791. 4-7-74.

No 59

1791 P.W.
Proc: of the Madras Govt.
Read the following
from the Chief Engineer
for Irrigation } (H. E. No - 910th June/74.)

The following es-
timates for the re-
pair of Tanks in
the Kurnool District
are sanctioned.

Gudur large Tank	Rspees 600.
Kapadina - do	97
Gubbur large small Tanks -	377.

2. The District En-
gineer will give im-
mediate attention to
the requirements of
all these tanks as
regards the dispo-
sal of surplus
water.

M. J. M.

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To The Chief Engineer for Irrigation
--- D. E. Kurnool ✓
--- Controller M. A. ✓
S. Copies despatched 10/7/74.

By. 12/6/74
G. J. M.

3749 ✓

Govt. of Madras.

PUBLIC WORKS.

The Chief Engineer.
For Engineer.

Date

Order

Encl. 1

G. O. 4 July 1874. No. 1791

No. 59-60

Tanks

Estimates for the re-
-pair of certain Tanks
in the Kurnool Distt
sanctions of with re-
-marks —

59-60.

Recd 18/6/74 Retd 18/6/74