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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	808	Press
445-47		Mrs.
Dated	17-3-1871.	

Not to be folded or roughly handled

Read the following papers:—

No. 445. From the Acting Superintending Engineer, 5th Division, to the Chief Engineer for Irrigation, dated Madras, 23rd January 1871, No. 227.

I HAVE the honour to forward, for the sanction of Government from the "Reserve Agricultural" for 1871-72, an estimate, amounting to Rupees 11,250, accompanied by plans and specification report for restoring the Andyapanoor Emam Sahib tank in the Tripatore Talook, Salem District.

- 1 Survey.
- 3 Plans.
- 1 Estimate of Rupees 11,250.
- 1 Specification.
- 1 Revenue Statement.

2. The construction of a tank in the gorge of the Javady hills, some 3 miles to the south-east of Andyapanoor in the Tripatore Talook, was a project of a certain Emam Sahib, who in former years, as Mittahdar of Andyapanoor, farmed from Government the land included within the limits of that village.

3. About forty years ago this Mittahdar put his project into execution, but owing either to want of skill or forethought, the work was never brought to completion. He appears to have set to work by closing up, at one and the same time, the whole of the gorge, inclusive of the jungle stream which runs in its centre. This stream is called the Paupankanataur (*Anglice*, the river of the Brahmin's well), and it runs at times with great force.

4. From the appearance of the work it may be inferred that Emam Sahib must have failed in his bund from inability to complete the work with sufficient rapidity, so as to reach the height of his calingulah in time to prevent the water overflowing and breaching the embankment.

5. For filling up this breach, and for the construction of two sluices and a calingulah, the present project now provides.

6. If the project be sanctioned and the work carried out, it is anticipated by the Revenue Authorities that there will be an increase of revenue amounting to 22 per cent. on the outlay.

7. I have inspected the site of this tank, and I feel satisfied that, with ordinary precautions in execution, the work can be satisfactorily completed, and that it will prove not only advantageous to the Government, but a great boon to the ryots of Andyapanoor, who, although a considerable quantity of rain falls during the year in their neighbourhood, are subjected, for want of means of storage, to much misery for themselves and to great straits for their cattle, in consequence of the almost total absence of water during the hot weather.

8. From my own experience and from the inquiries I have made, I am satisfied that the rainfall about Andyapanoor is considerable and topical, or due to local causes. The peak of the Javady hills attracts the rain clouds, and heavy rain frequently falls at the head of the Paupankanataur valley, when but a few miles off there is no rain at all. The construction of a tank would no doubt increase the condensing power of the valley, and the rainfall would in consequence be still more frequent and copious. The thick undergrowth of jungle that is met in this valley is in itself a clear indication of a considerable rainfall, and, I may add, of a fertile soil.

Proceedings of the Madras Government, Public Works Department
17th March 1871.

9. The tank now projected is calculated to contain, when full, upwards of one million cubic yards of water; sufficient in itself for the irrigation of 250 acres, and there is every prospect of an amount of rain being collected enough to fill the tank at least twice during the season of cultivation.

10. I should have preferred to have been enabled to submit this project in a more complete shape, than is now the case, as regards preliminary details of investigation; but, under the existing circumstances of the range, to request the preparation of such a project is tantamount to shelving the question altogether. But is this latter altogether a justifiable course? We have here a project that will presumably recoup its original cost within five years, and afterwards pay the Government a revenue of Rupees 2,500 per annum. I say presumably, but even supposing that it is ascertained, after a protracted investigation carried on by a qualified Surveyor, specially appointed for the purpose, that the anticipated returns are considerably less than, or even one-half of those now stated, is that a sufficient reason for the Government to quash the matter, or defer it to some more convenient opportunity, considering the wretchedness and the hardships that are suffered, as already mentioned, by the ryots for want of the water which this project is calculated to supply? I cannot bring myself to believe that the Government will take this view of the matter, and I submit the project therefore with every confidence of sanction being obtained for the same.

No. 50.

Note by the Chief Engineer for Irrigation.

No. 446.

I AM sorry that I cannot recommend the sanction of the estimate of Rupees 11,250 for the restoration of the Andyanoor Emam Sahib tank in the Salem District. The area of the drainage basin has not been even approximately given, and yet upon this, coupled with the rainfall, the estimate of the water supply must, in the absence of observations of the discharge of the nullah, be based. It appears to me that the capacity of the tank has been over-estimated; its superficial area is only about four-fifths of that stated in paragraph 5 of the specification, or, say, 135,000 square yards, and the average depth is, as far as I can judge from the sections given, about 5 yards, so the contents would be about 675,000 cubic yards; allowing that 6,000 cubic yards per acre would suffice, owing to the tank refilling after it had been partially emptied, the area it would cultivate would be about 113 acres, and this at 4 Rupees an acre would give a gross return of 452 Rupees, or a little more than 4 per cent. on the amount of the estimate.

2. Without some definite information as to the area of the drainage basin or of the maximum discharge of the nullah, it is impracticable to judge whether the waste weir is of sufficient capacity, and whether, with a given length, the margin above the maximum level of the water would be enough.

3. It ought hardly to be necessary to point out that the Revenue Authorities (paragraph 6 of Superintending Engineer's letter) can only state what the assessment of lands irrigated would be, and that in a case like the present the Public Works Department must show for what area water can be given, and what land is available within the limits of the command of the sluices. Estimates of anticipated returns must be valueless unless based upon facts.

Proceedings of the Madras Government, Public Works Department,
17th March 1871.

4. It is not stated whether any existing revetment will be retained; the total number of cubic yards required, according to paragraph 7 of the specification, would be 8,888, and only 4,665 are entered in the estimate.

5. It is doubtful whether the sluices would, according to the proposed arrangements, irrigate the area, 525 acres, contemplated; the two new ones would be useless when the water had fallen 5 feet below full tank level.

FORT ST. GEORGE,
24th February 1871.

(Signed) J. MULLINS, Major, R.E.,
Chief Engineer for Irrigation.

No. 447.

ORDER THEREON, 17th March 1871, No 808.

IRRIGATION, No. 35.

ORDERED that the note by the Chief Engineer for Irrigation be communicated to the Superintending Engineer of the

5th Division, who should, if it be found that a satisfactory project can be worked out, re-submit the estimate with fuller information.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

N^o 224.

Superintg: Engrs Office, 5th Division,
Madras, 13th January 1891.

From,
The Ag: Superintending Engineer,
5th Division

To,
The Chief Engineer
for Irrigation

Sir,

I have the honor to forward
Enclosures for the sanction of Government, from
1 Survey the Reserve, "Agricultural", for 1891/92
3 Plans
1 Est: of Rs 11,750. are estimate amounting to Rs 11,750.
1 Specification accompanied by plans and Specifications
1 Rev: Settlement Report for Rectifying the Andiyaspanon
Inam Salub tank in the Tripature
Talook, Salem District.

2. The construction of a tank
in the gorge of the Javady hills, some
3 miles to the South East of Andy-
aspanon, in the Tripature Talook,
was a project of a certain Inam
Salub who in former years, as
Mittahdar of Andiyaspanon, claimed
from Government the land included
within the limits of that village.

3. About 40 years ago this Millholder put his project into execution, but owing either to want of skill, or forethought, the work was never brought to completion. It appears to have set to work by closing up, at one of the same time, the whole of the gorge - including of the single stream which runs in its centre. This stream is called the Jansamkaratun (*Anglice* River of the Brahmin's well) and it runs at times with great force. —

4. From the appearance of the work it may be inferred that Jindam Sahib must have failed, in his endeavours, in inability to complete the work with sufficient rapidity, so as to reach the height of his Calingulak in time to prevent the water overflowing and breaching the embankment. —

5. The filling up of this breach, and the construction of 2 Sincasans a Calingulak the present project now provides. —

6. If the project be sanctioned

and the work carried out, it is anticipated by the Revenue Authorities that there will be an increase of Revenue amounting to 22 per cent. on the outlay. —

7. I have inspected the site of this tank, and feel satisfied that, with ordinary precautions in execution, the work can be satisfactorily completed, and that it will prove not only advantageous to the Government but a great boon to the Ryots of Andjapanow, who, although a considerable quantity of rain falls during the year in their neighborhood, are subjected, for want of means of storage, to much misery for themselves and to great straits for their cattle, in consequence of the almost total absence of water during the hot weather. —

8. From my own experience and from the enquiries I have made, I am satisfied that the rain-fall about Andjapanow is considerable, and topical, or due to local causes. The peak of the Jorung hills attracts the

rain-clouds, and heavy rain frequently falls at the head of the Sanpantianatun valley, where but a few miles off there is no rain at all. - The construction of a Tank would no doubt increase the condensing power of the valley, and the rain-fall would, in consequence, be still more frequent and copious. - The thick undergrowth of jungle that is met in this valley is in itself a clear indication of a considerable rain-fall and a very odd of a fertile soil. -

9. The tank now projected is calculated to contain, when full, upwards of one million cubic yards of water; sufficient in itself for the irrigation of 250 acres, and there is every prospect of an amount of rain being collected enough to fill the tank at least twice during the season of cultivation.

10. I should have preferred to have been enabled to submit this project in a more complete shape, than is now the case, as regards preliminary

6
preliminary details of investigation, but under the existing circumstances of the Range, to request the preparation of such a project is tantamount to shelving the question altogether. - But is this latter altogether a justifiable course? We have here a project that will presumably recoup its original cost within 5 years, and afterwards pay the Government a Revenue of Rs. 2,500 per annum. - I say presumably; but even supposing that it is ascertained, after a protracted investigation carried on by a qualified Surveyor specially appointed for the purpose, that the anticipated returns are considerably less than, or even one half of those now stated, is that a sufficient reason for the Government to quash the matter, or defer it to some more convenient opportunity, considering the wretchedness and the hardships that are suffered, and the

mentioned, by the Ryots for want of
for the water which this project is
calculated to supply? I cannot bring
myself to believe that the Government
will take this view of the matter, and
I submit the project therefore with every
confidence of sanction being obtained
for the same.

I have the honor to be

Sir

Your most obedient Servant.

Rich^d A. Roberts. Lieut. Col. R.E.,

Ag. Superintg. Engineer, S. S. S. S.

ch 445

No 508-17 March 1911

Hydrographer General
Salem District
The Dykes & Tanks
of the District
The Dykes & Tanks
of the District

Oct 23rd 1910
No 245 of January 1911

Mr. The Chief Engineer
for the District
The Dykes & Tanks
of the District

Encl 8

N^o 50

Note by The Chief Engineer for Irrigation
I am sorry that I cannot recommend the
sanction of the estimate of Rupees 11,250 for
the restoration of the Andrapanai Soman
Tahel Sank in the Salem District. The
area of the drainage basin has not been
even approximately given, and yet upon this
coupled with the rainfall, the estimate of
the water supply must, in the absence of
observations of the discharge of the nullah,
be based. It appears to me that the capa-
city of the tank has been overestimated;
its superficial area is only about $\frac{4}{5}$ of that
stated in para 5 of the specification or
say 13500 square yards and the average
depth is as far as I can judge from
the sections given, about 5 yards so
the contents would be about 675000 cu-
bic yards, allowing that 6000 cubic yards
per acre would suffice owing to the tank
refilling after it had been partially
emptied. The area it would cultivate would
be about 115 acres, and this at 4 Rupees
an acre would give a gross return of
452 Rupees, or a little more than 4 per
cent on the amount of the estimate.

Without some definite information
as to the area of the drainage basin or
the position of the tank it is impossible to say.

of the maximum discharge of the mullah,
it is impracticable to judge whether the
waste weir is of sufficient capacity, and
whether, with a given length the margin
above the maximum level of the water
would be enough.

3. It might hardly be necessary to point
out that the Revenue authorities (para.
6 of Superintending Engineer's letter) can
only state what the assignment of lands
irrigated would be, and that in a case
like the present the P. W. D. must show
for what area water can be given, and
what land is available within the dis-
posal of the command of the sluices. Es-
timates of anticipated returns must be
valued unless based upon facts.

4. It is not stated whether any ex-
isting revetment will be retained. The total
number of cubic yards required, according
to para 7 of the specification, would be
8,888, and only 4,665 are entered in the
estimate.

5. It is doubtful whether the sluices
would, according to the proposed arrange-
ments, irrigate the area, 525 acres, con-
templated. The two new ones would be
useless when the water had fallen 5 feet
below full tank level.

Fort St. George, 21 July 1871
24 February 1871
To The Secretary to Govt. P. W. Dept.

at 2 p.m. 1871

at 11.9

at 11.9

at 11.9

at 11.9

1871

1871
No. 917
From

The Chief Engineer for Irrigation
To The Secretary to Govt.
P. M. D.

Dated 24th February 1871.
Despd 28th " "
Revd

N-50
Encl^d 8

Note declining to recommend the sanction of the estimate of Rupees 11,250 for the restoration of the Andyanis Imam Sahab tank in the Salem Dist.

1808-17 March/71

Ch 1446

63 March/71 R-6th

No. 828
P. M. D.
Proceedings of the Madras Government

From

The Chief Engineer for Irrigation } (H. E. No. 50924- July/71)

Read the following

Ordered that the note by the Chief Engineer for Irrigation be communicated to the Super Engineer of the 5th Division, who should, if it be found that a satisfactory project can be worked out, resubmit the estimate with fuller information.

N.

1/3/71

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The Super Eng^r 5th Div. North Arcot

Chief Eng^r for Irrigⁿ

Recd 18/3/71

11/9/17

Govt. of 1871 Madras.

PUBLIC WORKS.

To The Superintending Engrs
5th Division

1 Dated

Recd

Recd /

17 March 808.

1145 (C 441)

Andrapur Kmann Sahib Bunk.

The above by the ~~fact~~ (Chief Engrs)
for Engrs' decision to be.
Command for sanction the
fact for the restoration of the
Andrapur Bunk in the
Galeen D., and to the super.
Super the 5th D.