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*Proceedings of the Madras Government, Public Works Department,
30th April 1875.*

Read the following papers :—

No. 717. From R. E. NORFOR, Esq., Executive Engineer, in charge of District Engineer's Office, South Arcot, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Camp at Virdachellum, 20th March 1875, No. 272.

I HAVE the honor to submit, for the sanction of Government, if approved by you,

1 Estimate.	an estimate, amounting to Rupees 1,215,
1 Specification.	for the repairs of the Perikal tank in the
1 Plan.	Trickalore taluq, which has reference to
1 Section.	your No. 797 of the 11th November 1873.

2. The estimate has only just been received from the Range Officer, after revision under instructions given him by the late District Engineer, Mr. Sage, and it is important that the repairs to this tank be carried out early in the ensuing official year. I beg that early sanction may be obtained to proceed with the work.

3. The average five years' revenue from this tank has been Rupees 890-15-7, and an expenditure of Rupees 330 was incurred in 1873-74 in closing breaches and lengthening the calingulah, work that had been carried out previous to the receipt of your letter above quoted.

4. The total length of calingulah now is 45 feet clear, all dam stones having been removed. The Range Officer reports that the tank received a maximum supply in the last year, and that the calingulah discharged for 22 days at a depth of 2-92, no damage occurred to the tank, but in places the water nearly overtopped the bank, as in fact may be seen from the section accompanying the estimate.

5. Taking, therefore, crest of calingulah *plus* 20-00 and M. W. L. 22-92 it is proposed to raise the bund of tank 3-83 feet above M. W. L., or 6-75 above crest of calingulah, which, I think, is sufficient.

6. The estimate also provides for replacing two unserviceable sluices by new ones.

No. 372.

No. 717-A. *Note by the Chief Engineer for Irrigation.*

THE following estimate has been submitted for sanction by the District Engineer, South Arcot :—

Repairing the Perikal tank	...	...	...	...	Rs. 1,215
Ayacut area	...	...	...	...	Acres 103
Do. assessment...	...	...	...	...	Rs. 718
Average revenue	...	...	...	...	„ 891

Repairs in last four years (1873-74), Rupees 330, expended in closing breaches and increasing* the waterway of the calingulah by the removal of the upright stones.

* 37 to 45 feet.

The source of supply is the Ragavien channel, having its head at the Pooniar anicut. It is stated that in the recent floods 2-92 feet of water went over the escape. Probably the catchment basin, the area of which has not been stated, is small, and the river floods will be eventually entirely shut out. It will suffice if the bund be raised to a level of 5-50 instead of 6-75 feet above the crest of the surplus weir, thus providing a margin

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30th April 1875.

of 2½ feet or rather more. This will reduce the item for earthwork. The new soil should as far as possible be placed on the inside rather than the outside of the bund, commencing at full tank level, and the old bund should be stepped to receive it. The tunnels of the two sluices to be reconstructed need not be of the length shown. The head wall can be placed where its top line will be 3 inches or so above the plane of the interior slope, and the cistern wall can similarly be placed just at the rear slope. Ordinarily 32 feet tunnels instead of 48 feet would suffice, but as the slopes of this bund are very flat the tunnels may be somewhat longer.

FORT ST. GEORGE, 12th April 1875. (Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 718. ORDER THEREON, 30th April 1875, No. 1,202.

IRRIGATION, No. 74.

The following estimate is sanctioned subject to the modifications noticed in the foregoing note:—

Repairing Perikal tank, South Arcot District Rs. 1,215

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

To the Chief Engineer for Irrigation.
" Controller of Public Works Accounts.
" District Engineer, South Arcot.

Exd. S. T. Austin.
Spare Copies

D. P. W.
SOUTH ARCOT.

DISTRICT ENGINEER'S OFFICE.

Camp Vidadachellum
Dated 20th March 1875.

The District Engineer,

South Arcot.

To The Chief Engineer for Irrigation

Enclosures.

Sir,

Estimate
1 Specification
1 Plan
1 Section.

I have the honor to submit for the sanction of Government, if approved by you, an estimate amounting to Rs 1215 for the Repair of the Perikal Tank in the Trichalore Taluk, which has reference to your No. 7977 of the 11th November 1873.

2— The Estimate has only just been received from the Range officer after revision under instructions given him by the late Distt. Engineer Mr. Sage and it is important that the repairs to this tank be carried out early in the ensuing off. year. If that early sanction may be obtained to proceed with the work.

3— The average 5 years Revenue from this tank has been Rs 890.15.7 and an expenditure of Rs. 330 was incurred in 1873-74 in closing breaches and lengthening the Canal; work that had

had been carried out previous to the receipt of your letter above quoted.
 4. — The total length of Catungulan now is 115 ft. clear, all Dam Stones having been removed. The Range Officer reports that the tank received a maximum supply in the last year and that the Catungulan discharged for 22 days at a depth of 2.92, no damage occurred to the tank but in places the water nearly overtopped the Bank, as in fact may be seen from the sketch accompanying the Estimate.

5. — Taking therefore crest of Catungulan + 20.00 and M. H. L. 22.92 it is proposed to raise the Band of Tank 3.83 feet above M. H. L. or 6.75 above crest of Catungulan, which I think is sufficient.

6. — The Estimate also provides for replacing 2 unserviceable sluices by new ones.

I have the honor to be
 Sir
 your most obedient servant

E. D. Morris
 Ex: Engineer in charge
 D. E. Office

37 to 45 be

10372 70
 Adm by the Chief Engineer for Irrigation.

The following estimate has been submitted for sanction by the District Engineer, South Arcot.

- Grinner, South -
 Repairing the Perical Tank Pumps 1215
 by a cut area - across - 103
 " Assessorant - Repairs 710
 " " 891

Average revenue
Repairs in last 4 years (1873-74) Rupees
330 expended in closing breaches and
increasing the water way of the Ca-
lingulah by the removal of the upright
stones. The source of supply is the
Kagavian channel having its head
at the Pooniar Aicut. It is stated
that in the recent floods 2.92 feet
of water went over the escape -
Probably the catchment basin the
area of which had not been stated,
is small & the river floods will be
eventually entirely shut out. It will

diffusa

Original No 3722/12
April 1915

From SOUTH ARCOOT D. P. W.
Ch. District Engineer
 South Arcot.

Christophorus
Augustus
Petrus

Dated	20 th March 1915
Despatched	22 nd 3/15
Received	22 nd 3/15

Disburs
 for
 No. 272
 Enclosures 4

It would be really some
 ten times better off to
 participate for 3 years
 than to be paid
 4 months in the future

23/8 in.

Ref. no 797 - 11 Nov. 73
inve. inv. 5/4/75 - 19/4

26-717

suffice if the bund be raised to a level of 5.50, instead of 5.75 feet, above the crest of the surplus weir, thus providing a margin of $2\frac{1}{2}$ feet or rather more. This will reduce the item for earthwork. The new soil should as far as possible be placed on the inside rather than the outside of the bund, commencing at full tank level, & the old bund should be stopped to receive it. The tunnels of the 2 sluices to be reconstructed need not be of the length shown. The head wall can be placed where its top line will be 3 inches or so above the plane of the interior slope and the cistern wall can similarly be placed just at the rear slope. Ordinarily 32 feet tunnels instead of 40 feet would suffice, but as the slopes of this bund are very flat

then

the tunnels may be somewhat longer.

95

Fort St. George }
12th April 1875 }

Wm. L. H. R. E.
Chief Eng. for Brig.

To The Secretary to Government
P. W. Dept.

8285
R. H. D. Irrigation

Pro of the Madras Govt. 118
Read the following:

From the Chief Engr for Irrigation { H.E. No 372 of 12 April 1875/
G.O. no: 202 of 30 April 1875

The following estimate is sanctioned subject to the modifications noticed in the foregoing Note.

Repairing Perikhal tank,
South Arcot District, Rupees - 1215.

11/4/75

G.M.

Obkha... for...
Dist Engr. South Arcot
Despatch 7-5-75

U.N. 1875 118
No 372 of 12 April 1875

From the Chief Engineer
for Irrigation
to the Secretary to
the Government
P.W.D.

Date 12th April 1875
Rupees 5

Note on the estimate
No 1215 for repairs
to the Perikhal tank
in the Arcot District
No 1202 of 30-4-75.

1177a

2562

Cont. of 1873-1874

PUBLIC WORKS.

The Chief Engineer

Superintendent

Date Recd.

C. O. 31 April 1875

Nos. 717-718

Postal Voucher, South
Amest - The estimate
for repairs to the
sanctioned, subject to
the modifications
noted.

717-718

1020-11-75

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