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MADRAS RECORD OFFICE.

Government of Madras.

Public works

DEPARTMENT.

G.O. No. 1896	Press
170-172	Mis.
Dated 10-8-	1872.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
10th August 1872.*

No 170. Read the following letter from the Superintending Engineer, 8th Division, to the Acting Chief Engineer for Irrigation, dated Madura, 8th July 1872, No 1,590 —

ADVERTING to my letter No. 1,310, dated 24th ultimo, I have the honour to forward herewith the three estimates as per margin, amounting to Rupees 74,070, for extra rough-stone works in connection with the Streevy-goontum Anicut Project, and to request the favour of your obtaining the early sanction of Government for the works abovementioned.

<i>Tenkarai and Ottapedarum Taluqs</i>		
1	Constructing revetments to the northern tanks of Streevygoontum Anicut Project ..	Rs 65,130
2	Pitching the sides, etc., of northern channel	5,540
<i>Tenkarai Taluq</i>		
3	Constructing rough stone apron in rear lower retaining wall of anicut ..	3,400
Total		74,070

No. 128.

No. 171. *Note by the Acting Chief Engineer for Irrigation.*

WITH his letter No 4,780, dated 8th March 1872, the Superintending Engineer of the 8th Division submitted a revised estimate for the Streevygoontum Anicut Project, and in the last paragraph of his letter he brought to special notice "the extreme care and thoughtfulness evinced by Lieutenant Shepherd, R E, in the preparation of the plans and estimates" On the 7th May the Superintending Engineer requested that the revised project might be returned to him, as Lieutenant

No 515

Shepherd had discovered that considerable modifications in the project were necessary relative to the distribution of water on the south side of the river. As the works, as revised, were being carried out, and as some modifications in the arrangements proposed appeared to me to be necessary, I deemed it inadvisable to postpone the submission of the revised estimate to Government with my Note No. 74, dated 20th May, and on the same day I informed the Superintending Engineer that any modifications of the original arrangements on the south side

No 72.

of the river should be submitted independently of the revised project after they had been carefully considered, and at the same time I pointed out that the arrangements sanctioned by Government had been specially approved by so able an officer as the late Colonel Anderson after a careful personal inspection of the locality.

2. On the 24th June the Superintending Engineer again requested that the revised estimate might be returned to him, and on the 25th reported that a sum of Rupees 43,700, or about 5½ per

No 1,310

.. 1,335

cent. on the original estimate, was required for office and work establishments. G O. No. 1,520, dated 21st June, having been passed on the revised project, the plans and estimates were returned to the Superintending Engineer, and it was pointed out to him that the amounts provided in the estimates for sundries

No. 116, dated 3rd July

were supposed to have covered the cost of petty and other establishments as no

*Proceedings of the Madras Government, Public Works Department,
10th August 1872*

special provision was made for establishments in the revised estimate, and he was requested to submit details of the establishments entertained in submitting the estimate for the modifications stated to be required on the south side of the river.

3. With his letter No. 1,590, dated 8th July, the Superintending Engineer submits the following supplemental estimates —

	Rs
1 Constructing revetments to the northern tanks of the Streevy-goontum Project	65,130
2 Pitching the sides, etc., of the northern channel	5,510
3. Constructing rough-stone apron in rear of the lower retaining wall of the anicut	3,400
Total	74,070

4 Not a word of explanation relative to the necessity of any of these works is afforded.

5. The first of these works is adverted to in my Note* embodied in G. O. No. 1,520, dated 21st June The connection of the tanks on the northern side

* F. paragraph 4, and No 52, paragraph 7 of the river and the increase in their capacity was not opposed, because it appeared that the work could be executed from savings on other portions of the estimate, and an increase of the capacity of the tanks would render the floods in the Opar Oday the less dangerous, if, however, a supplemental estimate of Rupees 65,130 is required to protect the bank of the new tank, sanction for the alteration must be obtained from the Government of India. Under the circumstances I would suggest that the original arrangements relative

Payacolum	Pottacolum	or such modifications of them as
Maroothony	Chinnaswamy	the present stage to which the works
Poothocolum	Korampallam	have advanced will admit, that the

Superintending Engineer should be directed to stop all work in these tanks which is not included in the original estimate; that he should submit a section of the entire bank as it now is, and should state relative to each tank what amount has been expended in carrying out work not provided for in the original estimate.

6. If the Superintending Engineer desires to increase the capacity of these tanks by uniting two or more of them, he should report fully upon the advantages to be derived from so doing, stating the increase in their capacity which may be obtained, their capacity as originally proposed, and the area of cultivation dependent upon them, and should submit an estimate for the arrangements he would propose, comparing their cost with that of the original estimate.

7. From the section at the head of the specification it would appear that it is proposed to carry the rough-stone revetment to the top of the bank and to make the upper six feet vertical, the latter portion, if built as proposed, would not stand; if the stone revetment is required it should be carried up along the face of the slope and should terminate one and a half feet above the highest water-mark, and where the water against the bank is from 8 to 12 feet in depth the bank should not be less than 4½ feet above the highest water-mark when the weir is discharging the

*Proceedings of the Madras Government, Public Works Department,
10th August 1872*

maximum flood; the slope above the revetment may be tufted if necessary. In the specification a paragraph is added in red ink as follows:—"The revetment is to have a backing half yard thick of gravel or gravelly earth rammed into a solid state so as to prevent its oozing through the interstices of the revetment." A rough stone revetment requires a backing of gravel or small stones to prevent the water in the tank from passing through the interstices between the stones and from playing upon and washing out the earth from the back of the revetment. Though the fact of a backing of gravel being required to the revetment is thus recognized, no provision is made for it in the estimate. Even were gravel to be obtained all along the bank from a distance of not more than 40 or 50 yards, the cost of the backing required would amount to at least Rupees 4,000, so that the estimate, even as now submitted, is incomplete. If the bank consists of gravel, no revetment will be required if a front slope of 2 to 1 is provided. The nature of the soil, where a revetment is proposed, should be stated.

8. No. 2 provides for pitching with stone the bed of the northern channel for 300 feet, and the sides for 100 feet from the sluice; from personal knowledge I am aware that this channel at its head passes through sand, and the pitching of the sides and bed is necessary as the mean velocity through the channel when running 6 feet deep would be nearly 3½ feet per second. I would at first, however, only revet the sides for 300 feet, or as far as the bed is proposed to be revetted: this may be done at a cost of Rupees 2,240. In submitting this estimate it should have been stated whether a fall of 1½ feet per mile as provided in the original estimate had been given to this channel.

9. No. 3 provides for an extended apron 9 feet by 3 feet beyond the rough-stone apron provided in the original estimate, if the aprons have been put in as designed, there is already a rough-stone apron 33 feet broad below the body of the anicut, and 56 feet broad below the sluices; this is an ample provision, the foot of the apron is supported by a small retaining wall; the refuse bricks, etc., may be thrown in along this wall to protect it. As the length of the anicut as designed is 1,389 feet, an extended rough-stone apron to protect the retaining wall would be 1,482 feet long and not 1,296, this estimate is therefore inaccurate.

OOTACAMUND,
23rd July 1872.

(Signed) R. F. OAKES, Captain, R. E.,
Acting Chief Engineer for Irrigation.

No 172

ORDER THEREON, 10th August 1872, No. 1,896

IRRIGATION, No. 8

In the Order No 1,520, dated 21st June, the Governor in Council sanctioned a revised estimate for the Streevy goontum

Anicut Project and expressed his gratification at the probable completion of the work within the estimated amount, and thus on the assurance of the Superintending Engineer that the plans and estimates and all details connected therewith had been prepared with extreme care and thoughtfulness. His Excellency in Council is therefore not a little disappointed at finding from the papers at the head of these Proceedings that a sum of Rupees 47,000 is stated to be required for establishments; that supplemental estimates to the amount of Rupees 74,070 have been submitted

*Proceedings of the Madras Government, Public Works Department,
10th August 1872.*

for the anicut and northern channel and tanks, and that modifications are stated to be required relative to the works on the south of the river. It does not transpire whether the latter will entail any extra outlay.

2. The Government regret to observe the careless manner in which the estimates for Rupees 74,070 have been submitted as pointed out by the Acting Chief Engineer for Irrigation.

3. The Governor in Council resolves to call the attention of the Superintending Engineer to paragraphs 5, 6, and 7 of the Note by the Acting Chief Engineer for Irrigation, and to direct that the estimate for the northern tanks may be revised accordingly, and that no work may be executed on those tanks in excess of that provided for in the original estimates, pending the submission of the complete project now to be submitted.

4. Estimate No. 2 should be modified as suggested in paragraph 8 of the Note recorded above, and estimate No. 3 may be cancelled, the lower retaining wall being protected as suggested in paragraph 9 of the Note.

5. The Government approve of the instructions issued by the Acting Chief Engineer for Irrigation as detailed in paragraphs 1 and 2 of his Note, and direct that the modifications said to be required to the works on the south of the river may be determined upon at an early date, and that a revised estimate may be submitted for the Streevygoontum Anicut Project with a full report relative to the changes proposed and to the extra establishment stated to be required.

6. Pending the sanction by Government of the modifications now to be proposed and of the estimates providing for them, no work included in these estimates will be undertaken.

(True Extract.)

Captain, R. E.,
Acting Joint Secretary to Government.

To the Superintending Engineer, 8th Division
,, Acting Chief Engineer for Irrigation.

Edw T O'Connor.

No 1590.

Sup^r Engineers Office 8th Div.
Madras 8th July 1872.

From,

Lieut^{nt} Colonel R. A. Roberts. R.E.

Sup^r Engineer 8th Division

Captain R. F. Pakes, R.E.

Acting Chief Engineer for Irrigation
Madras.

Sir,

Adverting to my letter No 1310 dated 24th ultimo I have the honor to forward herewith the three estimates as per margin amounting to Rupees 74,070. for extra rough stone works in connection with the Streevygoontum Anicut Project and to request the favor of your obtaining the early sanction of Government for the works abovementioned.

I have the honor to be,

Sir,

Your Most Obedt^t Servant

Rica N. R. V. Lieut^{nt} Col. R. A. Roberts
Superint^{nt} Engineer 8th Div.

Compt^r
822

Enclosures: 3
3 Estimates

Tenkani and Ottapedaram Saloots
Anicut Project
1. Constructing reinforcements to the Northern Tanks of Streevygoontum
2. Pitching the sides of Northern Channel
3. Constructing rough stone apron in near lower end
Total Rs. 74,070

N^o 4/28

Letter No. 1590 of 8th July from the
Superintending Engineer 8th Division
Note by the Ag. Chief Engineer for Irrigation

With his letter No. 4780 dated 8th March 1872 the Superintending Engineer of the "8" Division submitted a revised estimate for the Strengonium ament Project and in the last para of his letter he brought to special notice the extreme care and thoughtfulness evinced by Lt. Shepherd C.E. in the preparation of the Plans and estimates. On the 7th May the Superintending Engineer requested that the revised Project might be returned to him as Lt. Shepherd had discovered that considerable modifications ^{in the Project} were necessary relative to the distribution of water on the South side of the River. As the works, as revised, were being carried out and as some modifications in the arrangements proposed appeared to me to be necessary I deemed it inadvisable to postpone the submission of the

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Thomas Smith
 Son of John Smith a
 Merchant of No. 740 75

for extra money. None

works in connection with

He Strongly withholds himself

1891

Dec 18 96. 10⁰⁰ A.M.

the revised estimate to Government with my note No 74 dated 20th May and on the same day I informed the Superintendent No 72
my Engineer that any modifications of the original arrangements, on the South side of the River, should be submitted independently of the revised project after they had been carefully considered and at the same time I pointed out that the arrangements sanctioned by Government had been specially approved by so able an Officer as the late Colonel Plunderer after a careful personal inspection of the locality.

2. On the 24th June the Superintendent No 1310 my Engineer again requested that the revised estimate might be returned to him and on the 25th reported that a sum of Rs 43700, or about $5\frac{1}{4}$ per cent. on the original estimate, was required for office and work establishments. GO No 1520 dated 21st June having been passed on the revised Project, the Plans & Estimates were returned to the Superintending Engineer and it was pointed out to him that the amounts
No 116
3rd July

amounts provided in the estimates for sundries were supposed to have covered the cost of Petty & other establishments as no special provision was made for Establishments in the revised estimate and he was requested to submit details of the establishments entertained; in submitting the estimate for the modifications stated to be required on the South side of the River.

3. With his Letter No 1590 dated 8th July the Superintending Engineer submitted the following supplemental estimates.

1. Constructing Retirements to the Northern Tanks of the Streeragootum Project Rs 6513
2. Pitching the sides &c of the Northern Channel 5540
3. Constructing rough Stone apron in rear of the lower retaining wall of the Anicut 3400
Total Rupees 74,070

4. Not a word of explanation relative to the necessity of any of these works is afforded.

5. The first of these works is adverted to in my Note embodied in

* F para 4
& No 82 para 7
GO No 1520 dated 21st June. The connection of the tanks on the Northern side of the River and the increase in their capacity

Capacity was not opposed, because it appeared that the work could be executed from savings on other portions of the estimate and an increase of the capacity of the tanks would render the floods in the Opar Bay the less dangerous, if, however, a supplemental estimate of Rs 65,130 is required to protect the bank of the new tank, sanction for the alteration, must be obtained from the Government of India. Under the circumstances I would suggest that the original arrangements relative to these tanks should be carried out or such modifications of them as the present stage to which the works have advanced will admit; that the Superintending Engineer should be directed to stop all work in these tanks which is not included in the original estimate, that he should submit a section of the entire bank as it now is and should state relative to each tank what amount has been expended in carrying out work

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Korampallam

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not provided for in the original estimate to be. If the Superintending Engineer desires to increase the capacity of these tanks by putting two or more of them he should report fully upon the advantages to be derived from so doing, stating the increase in their capacity which may be obtained, their capacity as originally proposed and the area of cultivation dependent upon them and should submit an estimate for the arrangements he would propose, comparing their cost with that of the original estimate.

From the Section at the head of the specification it would appear that it is proposed to carry the rough stone revetment to the top of the bank and to make the upper 6 vertical, the latter portions of which as proposed, would not stand; if the Stone revetment is required it should be carried up along the face of the slope & should terminate 12 feet above the highest water mark and where the water against the bank is from 8 to 12 in depth the bank should

should not be less than $4\frac{1}{2}$ above the highest water mark, when the weir is discharging the maximum flood; the slope above the revetment may be turfed if necessary. In the specification a para is added in red ink as follows: "The Revetment is to have a backing $\frac{1}{2}$ yard thick of gravel or gravelly earth rammed into a solid state so as to prevent its passing through the interstices of the Revetment." As rough stone revetment requires a backing of gravel or small stones to prevent the water in the tank from passing through the interstices between the stones and from playing upon & washing out the earth from the back of the Revetment, though the fact of a backing of gravel being required for the revetment is thus recognized no provision is made for it in the estimate. Even were gravel to be obtained all along the bank from a distance of not more than 40 or 50 yards, the cost of the backing required would amount

amount to at least Rs. 4000 so that the estimate even as now submitted is incomplete. If the bank consists of gravel the revetment will be required if a front slope of 2 to 1 is provided. The nature of the soil where a revetment is proposed should be stated. 8. No. 2 Provides for pitching with stone the bed of the Narmada Channel for 300 feet and the sides for 100 feet from the sluice. From personal knowledge I am aware that this channel at its head passes through sand and the pitching of the sides & bed is necessary as the mean velocity through the channel when running 6 feet deep would be nearly $3\frac{1}{4}$ feet per second. I would at first, however, onlyrevet the sides for 300 feet or as far as the bed is proposed to be revetted; this may be done at a cost of Rs. 2240. In submitting this estimate it should have been stated whether a fall of $1\frac{1}{2}$ per mile as provided in the original estimate had been

been given to the channel & is shown
p. 9. It provides for an extended
apron 9 by 3 beyond the rough stone
or apron provided in the original estimate if
the aprons have been put in as designed.
There is already a rough stone apron 33 broad
& below the body of the culvert and 56 broad
below the sluices - this is an ample pro-
vision - the foot of the apron is supported
by a small retaining wall - the refuse
& bricks & may be thrown in along this wall
to protect it. As the length of the culvert
as designed is 1380 feet an extended rough
stone apron to protect the retaining wall
would be 1482 long & not 1296 - this
estimate is therefore inaccurate.

Ostacumund
23 July 1872
A. F. Baker, Captain
Chief Engineer for Irrigation
The Secretary to Govt
Irr Dept.

P. J. 1872
The Chief
Eng. in Charge

The Secretary
Genl. P. W.

N^o. 128

Noted 23rd July 1892
Sept 24th
Rev^d 5th Aug 1892

Note on the esti-
mate amounting to
£ 74070 for extra work
done in connection
with the Shreeguntur
Ancient Project
N^o. 1896. 10th Aug 1892

No 171

1896
N^o. 1896
In this order he
1520 dated 31st June
the Government can-
tioned a revised
estimate for the
Shreeguntur Ancient
Project and expressed
their gratification at
the probable comple-
tion of the work with-
in the estimated
amount, and thus on the
assurance of the

Superintending Engineer
that the ^{plans} estimates ^{and all details connected therewith} had
been prepared with
extreme care ^{and thoughtfulness} ~~they~~ H. E. M. C. is
therefore not a little
disappointed at finding
from the papers at the
head of these proceedings
that a sum of Rs 4,000
is stated to be required
for Establishments that
supplemental estimates
to the amount of Rs
4,000 have been
submitted for the aricut
and Northern Channel
and Sant Roam that
modifications are
stated to be required
relative to the works on
the south of the River.

(19) 8
It does not transpire
whether the latter will
entail any extra outlay.
2. The Government
regret to observe the
careless manner in
which the estimates
for Rs 4,000 have
been submitted as
pointed out by the
Acting Chief Engineer
for Irrigation.
3. They resolve to
call the attention of the
Superintendent to paras
5, 6 and 7 of the note by
the Acting Chief Engineer
for Irrigation and to
direct that the estimate
for the Northern Sant Ro

may be revised ac-
cordingly and that no
work may be execu-
ted on those tanks
in excess of that pro-
vided for in the
original estimates
pending the submission
of the complete Project
now to be submitted.

4. Estimate No. 2 should
be modified as suggested
in para 8 of the note
recorded above and
Estimate No. 3 may
be cancelled, the lower
retaining wall being
protected as suggested
in para 9 of the note.

5. The Government
approve of the instructions

21
issued by the Acting
Chief Engineer for Iri-
gation, as detailed in
para 1 and 2 of his
note, and direct
that the modifications
said to be re-
quired to the works
on the South of the
River may be deter-
mined upon at an
early date and that a
revised estimate
may be submitted
for the Strevegontum
Ancient Project with
a full report relative
to the changes proposed
and to the extra esti-
mate stated

to be required

6. Pending the sanction
by Government of the
modifications now to
be proposed and of the
estimates providing
for them no work in-
cluded in these
Estimates will be
undertaken

and have been
at present. F. J. Jones
will be in charge
of the work
concerning the
the project. The
estimated cost of the
work is about

The Rep of Engine & the work by Encl. 1
" Ch. Engine for Encl. 1

Dec 17/8/12

Gobt. of 1872 Madras.
PUBLIC WORKS.

T. *Highspringburg Aug 8th 1860*

Date

Recd.

Enc.

G. O. 10th Sept 1872, No 1896.

NO. 171 @ 192

Steering Committee

Received as per the letter
from the S. Sup. of the S. Co.
submitting estimates amounting
to Rs 74,070 for extra rough
stone works in connection
with the Freeganthan Mission
Project -