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MADRAS RECORD OFFICE.**Government of Madras.***Public works* **DEPARTMENT.**

G.O. No. <u>198</u>	<u>Press</u>
<u>415-416</u>	<u>Mis</u>
Dated <u>17-1-</u>	<u>1866</u>

Not to be folded or roughly handled

No. 415. Read the following letter from the Superintending Engineer, 2nd Division, to the Secretary to Government, Department Public Works, dated Camp, Vencatachella Chuttrum, Nellore, 13th December 1865, No. 125:—

1. Now that the channels under the Pennair Anicut watering the southern side have approached completion, it seems that our attention should be turned towards securing a sure and enlarged supply for the many fine and

1 Estimate.
2 Statements.

profitable tanks which already exist on the northern side, and to the extension of the cultivation under them. Though I have made but a short preliminary investigation, I am quite satisfied that an anicut at Sungum would afford us all the advantages to be desired, and be a comparatively easily constructed and highly profitable work. From a series of levels taken under the direction of Mr R. Smith, I find the river bed at Sungum is 99.25 feet above mean tide, or 59.25 feet above the crest of Nellore Anicut. Channels to the Doovoor and Kanigiri tanks issue at that town from the river, and the surplus of these tanks form the Maldevi stream, which supplies a large number of the tanks below them as far as the sea. But owing to the rapid subsidence of the freshes in the Pennair, these reservoirs seldom receive much more than half their supply. I enclose a list of the tanks (Statement 1) which would be supplied by the Doovoor and Kanigiri Channels. This has been obligingly furnished to me by the Collector Mr. Dykes, and is compiled from last year's returns, which may be considered as a fair average year. By it we see that instead of a revenue of Rupees 1,45,975 only Rupees 68,117 were realized; the loss being Rupees 77,858. This would probably have been to a large extent, if not completely, prevented, had an anicut raising the water six feet existed at Sungum. But it is to be borne in mind that if such a work was constructed, and the existing channels enlarged, and new ones excavated, the water might be carried by an aqueduct across the Pydairoo, and supply the lands of all the villages enumerated in Statement 2, until it reached the very fine Allrom and Allurci Ramannah tanks. These villages ought now to pay 1,08,840 Rupees, whereas, by the said statement it seems that last year they only returned a revenue of Rupees 67,229, the loss being 41,611 Rupees. If we take the total loss shown in the two statements we get 1,19,469 as the increase of revenue, could we but ensure a full supply. But it is also to be recollected that much more land would probably be brought under cultivation, also that the supply might be much increased to the Kovoov and other tanks, which now have separate heads between Sungum and Nellore. I do not, therefore, think I over-estimate the returns which an anicut would produce, when I say they would be 1,40,000 Rupees per annum for the north bank alone. There would be also a considerable increase of cultivation on the south bank, but I am not at present in a position to say to what extent.

2. Now the breadth of the bed of the river at a point where I had it measured is 1,371 yards. The Sungum hill is close, and produces an abundance of quartz stone easily detached or quarried. As a very rough estimate of the cost of the work I append Statement 3, which shows a probable expenditure of four lacs,

*Proceedings of the Madras Government, Public Works Department,
17th January 1866.*

but I think this may be above rather than below the mark. If correct, as also the foregoing returns of profit, we should have 35 per cent. per annum as the interest for the money laid out.

3. Should Government approve, on this representation, of my undertaking the maturing of the scheme, I have the honor to request that the services of Supervisor C. Sambiah Chetty may be given for general employment in the 2nd Division *vide* G. O. No. 40, dated 15th November 1863. and that I may be authorized to entertain an extra Draughtsman as a temporary measure. Sambiah Chetty has had an extensive experience in surveying and levelling for the channels of the Kistna Delta, and is to be relied on. I would endeavour myself to be in the Nellore District at frequent intervals until the project is fully matured.

No. 416. ORDER THEREON, 17th January 1866, No. 193.

CIVIL WORKS, No. 75.

No. 3,208, dated 25th October 1865.

which are required to complete schemes already partly executed, or which, for want of funds, have been set aside or held in abeyance. Colonel Winscom's reply to this requisition is contained in his report No. 113, dated 27th November 1865, and he will now be informed that when the other Superintending Engineers' replies are received his proposals to construct an anicut across the Pennair near Sungam, and to extend the irrigation on the north side of the river will receive the consideration of Government.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 2nd Division

Exd. S. T. Augustín.

<p> <i>Handwritten text in the first column of the table, likely a list of names or identifiers.</i> </p>	<p> <i>Handwritten text in the second column of the table.</i> </p>	<p> <i>Handwritten text in the third column of the table.</i> </p>	<p> <i>Handwritten text in the fourth column of the table.</i> </p>	<p> <i>Handwritten text in the fifth column of the table.</i> </p>
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Power Rank

Geometric *Engineering*

18th December 1865

In a letter from the
Superintending Engineer
2^d Division Mysore dated
18th December 1885-

To the Secretary to Govt.
D. P. W.

(Dated 18th December 1885.)
1917 D. P. W. 18

Statement showing the
totals which should be
irrigated in the villages
between Almorah & the
Tahsil & the work
= revenue for the last
year

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Rough Estimate of the Cost of Constructing an Aunient across Pannair at Tungam and of subsidiary works. 67

685 Wells 2 yards diameter at 10 Rs	6,850		
$1371 \times 1 \times 1\frac{1}{2} = 2056$ C. yds of Rough stone in chunam at $\frac{1}{8}$	3,084		
$1371 \times 1 \times 2 = 2742$ C. yds of S. for front wall at $\frac{1}{8}$	4,113		
$1371 \times \frac{4}{3} \times 1 = 1828$ for ditto for rear wall at $\frac{1}{8}$	2,742		
$1371 \times 60 \times \frac{5}{3} = 1,37,100$ C. yds of rough stone for body of Aunient cut at 12 annas per C. yd.	102,825		
$1371 \times 15 \times 1 = 20,565$ C. yds of S. for apron at 12 annas	15,424		
$1371 \times \frac{2 \times 3}{2} = 4,113$ C. yds of S. for front slope S.	3,085		
Total for Aunient alone	1,38,123		
Cost of Extra Head sluices - under sluices say	35,000		
Cost of enlargement of existing channels - excavating new channels say	1,00,000		
Regulators, sluices &c. say	20,000		
Aqueduct across Pannair say	4,000		
	3,33,123		
Add for contingencies	66,877		
Total Purpos	4,00,000		

Superintending Engineer's Office
Camp at Venkateswaram Chittoor
18th December 1885. - - - } Leut Col. R.E.
Superintending Engr. 2^d Div.

Camp Venkatachalla
 18th December 1865
 To the Engineer in Charge
 Colonel C. A. O. R. C.

Sir,
 From that the Channels under
 the Pennair Ancient waterworks the Southern
 side, have approached completion, it
 seems that our attention should be turned
 towards securing a sure and enlarged
 supply for the many fine and profitable
 tanks which already exist on the Northern
 side, and ^{to the} extension of the cultivation under
 them. Tho' I have made but a short
 preliminary investigation, I am quite
 satisfied that an Ancient at Tungum
 would afford us all the advantages
 to be desired, and be a comparatively
 easily constructed and highly profitable
 work. From a series of levels taken under
 the direction of Mr. R. Smith, I find the
 river bed at Tungum is 99.25 ft. above
 Mean tide, or 59.25 ft. above the Crest of

Enclosures.
 Estimate-
 Statements.

In witness to 125
 From the Department of
 29. December 1865
 To the Secretary of
 3. 1865
 1877 37 38/65
 George E. Smith of
 the Civil Engineering
 and Surveying
 Branch of the
 Government
 of India -
 to the 400000-

Telline Ancient Channels to the Doo-roo
and Kanigui tanks if one at that town
from the River and the surplus of these
tanks form the Malou stream which
supplies a large number of the tanks
below them ^{for} the Sea. But owing to the
rapid subsidence of the freshets in the
Cannair these reservoirs seldom receive much
more than half their supply. I enclose
a list of the tanks / Statement 1 / which
would be supplied by the Doo-roo and
Kanigui Channels. This has been
obligingly furnished to me by the Collector
Mr Dyer and is compiled from last
year's return, which may be considered
as a fair average year. By it we see
that instead of a revenue of Rs 145,975
only Rs 68,117 were realized; the loss being
Rs 77,858. This would probably have
been to a large extent, if not completely,
prevented had an Ancient raising the water
6 feet higher at Sungen. But it is to be
borne in mind that if such a work
was constructed and the existing Channels
enlarged, & new ones excavated, the water
might be carried by an aqueduct across
the Pygairas and supply the lands of all
the

of the present statement 2, but
it is to be remembered that the present
statement is a statement of the present
revenue of the village. These villages ought
now to pay 108,840 Rs, whereas by the present
statement it seems that last year they
only returned a revenue of Rs 67,229.
The loss being Rs 161,111. If we take the
total loss shown in the two statements we
get 119,469. as the increase of revenue.
Could we but ensure a full supply. But
it is to be recollected that much more
land would probably be brought under
cultivation, also that the supply might
be much increased to the Koo-roo and other
tanks which now have separate heads
between Sungen and Telline. I do not
therefore think I over estimate the returns
which an Ancient would produce when
I say they would be 140,000 Rs per
annum for the North bank alone. There
would be also a considerable increase
of cultivation on the South bank but
I am not in a position to say to what
extent.

2^d Now the breadth of the bed of
the River at a point where I had it
measured is 1371 yds. The Sungen Hill

is determined for such an amount of
of quartz stone easily obtained in the
As a very rough estimate of the cost of the
work I appended statement 3 which
shows a probable expenditure of Rs. 1,00,000
but I think this may be rather
than below the mark. If correct, as
also the foregoing returns of profit,
which have 3% per cent per
annum as the interest for the money
laid out.

3rd I have Government approve
in the representation of my undertaking
the maturing of the scheme, I have the
honor to request that the services
of Superintendent Sambrook Chetty may
be given for general employment in the
and also those of Mr. Franklin
and that I may be authorized to
entertain an Extra Draftsman as a
temporary measure. Sambrook Chetty
has had an extensive experience in surveying
and levelling for the channels of the
Kistna Delta, and is to be relied on.
I would endeavour myself to be in
the Bellary District at frequent intervals.

internals until the project is fully
matured.

I have the honor to be
Yours most Obedt Servt

C. H. M. V. V. V.
Super Engineer D. D.

Proceedings of the Madras Government
Under date the 17th January 1866.
Read the following

From the Superintending Eng.
of the 2^d Division
Proposes to build an
Anicut across Pennair near
Sengam to secure an enlarged
supply for profitable tanks to
extend cultivation under them
and forwards a Rough Estimate
for the Anicut and Subsidiary works.

No 3200 of 25th October/65.

In the proceedings marginally
noted the Superintending Engineer
were called upon to submit
proposals for carrying out large
irrigation works which are
required to complete schemes
already partly executed, or
which, for want of funds,
have been set aside or
held in abeyance. Colonel
Hume's reply to this re-
quisition is contained in his
report No 113 dated 27th Nov/65
and he will now be in-
formed that when the other
Supt Engineers replies are
received his proposals to

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Construct an Arriental across
the Pecos near Sangre
and to extend the irrigation
on the north side of the
River will receive the con-
sideration of Government

[Signature]

6 7/8 the Sup & Lys & Dine

Dec 18th January

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Deputy

Colonel of S. Co

Attest

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7/1866 Dep't
Proc. of Govt for Land

No 198
Proc. of the Intant
of 17 Jan'y/66

1/1/66
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1/1/66

The Supy hgt 2nd has
informed that his proposals
to construct a canal &c
across the Pecos near
Sungam Hollow District
will be considered when
the information called
for in Progs No 3208 of
1865 has been received

No 415. 416

No 15