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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. <u>1769</u>	Press Mis.
<u>182-83</u>	
Dated <u>13-6-43</u>	<u>1367.</u>

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department.
13th June 1867.

No. 282. Read the following letter from the Acting Superintending Engineer, 6th Division, to the Secretary to Government, Department Public Works, dated Tanjore, 28th May 1867, No. 265 :—

1. I have the honour to report the result of an inspection of the Negapatam and Vedarniem canal works, which I made between the 17th and the 22nd of this month.

2. The estimate for this work is entered in the Budget for 1867-68 as amounting to Rupees 70,410. This is the sum of two estimates, the one amounting to Rupees 64,000, sanctioned in G. O. No. 3,101, dated 19th October 1865, and intended to provide for the completion of the line of water communication between Negapatam and Vedarniem, the other amounting to Rupees 6,410, sanctioned in G. O. No. 2,736, dated 29th August 1866, and providing for certain alterations and improvements to the works in the neighbourhood of Caroongunny, where the Chendranady river joins the canal.

3. The navigation intended to be provided for by these estimates was to be partly along the tidal portions of the rivers Cudduvayaur, Vellyaur, and Aduppaur respectively; and partly along artificial cuts connecting these rivers. Its total length of thirty-two miles five furlongs was made up as follows, commencing from Negapatam :—

Number of the Section	LENGTH IN			Name of River or Cutting.
	Miles.	Furlongs.	Yards.	
1	2	2	173½	Tidal portion of the Cudduvayaur river artificially straightened some years ago from T to W.
2	3	4	156	New cutting from W. to Y.
3	...	2	96	A tidal portion of one of the branches of the Vellyaur river from Y to X.
4	2	2	104	A tidal portion of the main branch of the Vellyaur river from X to E.
5	1	5	100	A cutting stated to have been lately completed in Captain Onkes' letter No. 960, dated 5th September 1865, from E to F.
6	10	...	140	A new cutting along the Ramanaden and Paupan Voikals, and the Kodocchuttayaur from F. to K.
7	8	6	66½	A tidal portion of the Aduppaur river from K to L.
8	3	4	44	An artificial canal from the Aduppaur to the Salt Pans marked L. to M. on the survey completed before the estimates now referred to were submitted to Government.
	32	5		Total length of Canal.

4. The letters marking the different sections are those entered in the original survey, which is herewith returned to Government.

5. Of the eight sections noted in the foregoing table, the present estimates deal with only two, *i. e.*, numbers 2 and 6. The other six sections consist of the tidal portions of rivers Nos. 1, 3, 4, and 7, which have required no improvements, and the artificial cuttings 5 and 8, which had been made in previous years.

6. Section No. 2 is 6,316 yards in length. It is crossed at 1,980 yards from its northern extremity by a drainage stream following the old course of the

Cudduvayur, and joining the present course of that river nearly opposite the Negapatam salt platform, which is shown on the survey. The centre portion of the canal has been excavated to the full depth allowed in the estimate, viz., three feet below water level up to the crossing of this drainage stream, the bed of which is only one foot below low water. In order to carry out the provisions of the estimate, the bed of this drainage channel must also be deepened two feet, and I have directed that this be done. Nothing is said in either estimate or report as to whether this drainage was to be passed into the canal, or to be allowed to cross it and continue on in its old course. As I consider that it will do the least harm if it be left as it is, I have directed that no attempt be made to divert it into the canal. Beyond this drainage channel and up to X where the cutting enters a branch of the Vellyaur, the centre portion of the canal has in great part been excavated to its full depth. But the side slopes have not been made except near the Vellyaur, and as the bottom breadth of the canal is only 10 feet, whereas the depth of the excavation averages between 8 and 9 feet, the side slopes, which are to have an inclination of two to one, form the most important part of the work in this section. The excavations were undertaken by nine contractors, who were to have completed them by the 15th of May, but they have all, except one who has finished the work near the Vellyaur, forfeited their deposit monies. I have directed Mr. Donaghue, who is in charge of the Range, to make fresh contracts, if possible, for the early completion of the work in this section. Two small under-tunnels, provided for in the estimate, have been built near the north end of the section, to convey water for the irrigation of lands to the eastward. They are at present under water with the exception of their wing-walls.

7. Section No. 6 is 10 miles and 140 yards in length. The excavations were completed at the time of my visit, inclusive of the side slopes, for the first $4\frac{1}{4}$ miles from its northern extremity, whence up to $5\frac{1}{2}$ miles from the same extremity the work was under progress; after which, up to $6\frac{1}{2}$ miles it may be said to be very nearly finished, slight additions to slopes and banks being all that has to be done; after this again to the end, work may be said to have just commenced. The progress made in the first $6\frac{1}{2}$ miles is mainly due to the exertions of the Negapatam Tahsildar in collecting labourers for the work. The southern part of the canal work was commenced later, and was stopped by drainage filling the excavations and rain dispersing the coolies; endeavours will be made to collect them again, and to complete the excavations if possible before the regular freshes caused by the south-west monsoon fill the Tanjore rivers and draw away all labour for cultivation.

8. At the head of the Ramanaden Voikal four masonry works are under progress. The two largest are a tunnel under the canal which is being altered and partly re-constructed; its use being to convey a portion of the water of the Chendranady river from the west of the canal for the irrigation of lands lying to the east of it, and a masonry dam across what is now the main channel of that river, by which it has lately been connected with the canal—the use of the dam being to turn water into the under-tunnel whenever there is a scarcity thereof, and thus prevent its being wasted. These two works are to the north of a bridge over the canal near Caroongunny. The flooring and side walls of the under-tunnel were finished, and there is every reason to believe that the work will be satisfactorily completed this season, there being a good deal of material ready on the spot. The

foundations and body of the dam, which in previous correspondence is also termed a calingulah, have been executed. The wing-walls only have to be raised 4 feet. Immediately to the south of the Caroongunny bridge, two smaller under-tunnels are being partly re-constructed. These are nearly finished. About 3,000 yards to the south of the Caroongunny bridge an under-tunnel has been constructed for the irrigation of lands to the eastward belonging to the village of Karapadagay.

9. The above is an account of all the works as yet done. The completion of the canal this season depends entirely upon whether sufficient labour can be obtained. If there be no more rain, and if the freshes are rather late, there is a very good prospect of the work already estimated for being finished, otherwise I fear it will not be completed this season.

No. 283.

ORDER THEREON, 13th June 1867, No. 1,769.

CIVIL WORKS, No. 37.

1. The Government are glad to learn from this report that the opening of the canal between Negapatam and

Topetoray, to complete the water communication between the former place and Vedarniem, is making good progress, and they trust that the work will continue to be vigorously prosecuted.

2. Credit is due to the Tahsildar of Negapatam for his exertions in collecting coolies for the work in the first $6\frac{1}{2}$ miles.

(True Extract.)

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

To the Superintending Engineer, 6th Division.
.. Revenue Department.

Exd. S. T. Augustin.

No 265

Superintendent's Office B. S.
Singapore 28th May 1867.

Sir,

Lieut. Col. P. L. Hume Esq.
Asst. Superintending Engineer B. S.
Colonel C. J. Orr R.E.
Secretary to Government
B. S.

I have the honor to report
the result of an inspection of the
Sepatam and Vedarnam Canal
works which I made between the
17th and the 22nd of this month -

I — The Estimate for this work
is entered in the Budget for 1867/68
as amounting to Rs. 70,410 - This
is the sum of two estimates - the
one amounting to Rs. 64,000 sanctioned
in G.O. No. 3105 dated 19th October 1865
and entered to provide for the com-
pletion of the line of water com-
munication between Sepatam &
Vedarnam - the other amounting
to Rs. 6,410 sanctioned in G.O. No. 22736
dated 29th August 1866, & providing for
certain

Certain alterations & improvements to the works in the neighborhood of Caranpung, where the Chindwin River joins the Canal.

3 — The navigation intended to be provided for by these estimates was to be partly along the tidal portions of the Rivers Chindwin, Salween & Aungmye respectively, & partly along artificial cuts connecting these Rivers. Its total length of 32 miles & 5 furlongs, was made up as follows commencing from Mogoke.

Number of the section	Length in			Name of River or Cutting
	Miles	Furlongs	Yards	
1	2	2	173 1/2	Tidal portion of the Chindwin River artificially straightened some 3 miles up from T. to W.
2	3	4	156	An cutting from W. to Y.
3	"	2	96	A tidal portion of one of the branches of the Salween River from Y. to X.
4	2	2	104	A tidal portion of the Salween branch of the Salween River from X. to E.
5	1	5	100	A cutting stated to have been lately completed in Captain Galle's Station 12960 dated 5th September 1865 from E to F.
6	10		140	A new cutting along the River Salween & Aungmye from F to K.

7	8	6	66 2/3	A tidal portion of the Aungmye River from K. to L.
8	3	4	44	An artificial Canal from the Aungmye to the Salween marked L. to M. on the Survey completed before the estimates now referred to were submitted to Government.
	32	5	0	Total length of Canal

4 — The latter marking the different sections are those entered in the original Survey which is herewith returned to Government.

5 — Of the eight sections noted in the foregoing Table, the present Estimates deal with only two i.e. numbers 2 and 6. The other six sections exist of the tidal portions of Rivers Nos 1, 3, 4 & 7 which have required no improvements & the artificial cuttings 5 and 8 which had been made in previous years.

6 — Section No 2 is 6316 yards in length. It is crossed at 1980 yards from its northern extremity by a drainage stream following the old course of the Chindwin & joining the

the present course of the drainage
to ~~opposite~~ the ~~regulation~~ ^{main} ~~cut~~ ^{main} ~~channel~~ ^{channel}.
The Centre portion of the Canal has been
excavated to the full depth allowed
in the Estimate viz 3 feet below the
water level up to the top of the
drainage stream, the ~~high~~ ^{high} ~~water~~ ^{water} ~~level~~ ^{level} ~~is~~ ^{is}
only 1 foot below low water. I have to
carry out the provisions of the Estimate
the bed of this drainage channel
must also be deepened 3 feet and
I have directed that this is done.
Nothing is said in the Estimate
on report as to whether this drainage
was to be passed into the Canal
or to be allowed to report ~~continue~~ ^{continue}
on in its old course. I consider
that it will do the best service if
it be left as it is. I have directed
that no attempt be made to divert
it into the Canal. Beyond this
drainage channel & up to ~~x~~ where
the cutting starts a branch of the
the Centre portion of the Canal has
in great part been excavated to its
full depth. But the side slopes have
not.

not been made except on the 18th June
and as the bottom breadth of the Canal
is only ten feet, whereas the depth of the
excavation averaged as herein 3 feet, the
side slopes, which are to have an
inclination of 2 to 1, form the most
important part of the work in this section.
The excavations were undertaken by
nine Contractors who were to have
completed them by the 15th July,
but they have all, except one who have
finished the work near the Village,
for sale & their deposit money. I
have directed Mr. Cunningham, who
is in charge of the Range, to make fresh
Contracts if possible for the early com-
pletion of the work in this section.
Two small under tunnels provided
for in the Estimate have been built
near the north end of the Section to
convey water for the irrigation of land
to the eastward. They are at present
under water with the exception of their
wing walls.

7 — Section 1 to 6 is 10 miles & 140
yards

yards in length. The excavations were completed at the time of my visit inclusive of the side slopes for the first $4\frac{3}{4}$ miles from its northern extremity. Whence up to $5\frac{3}{8}$ miles from the same extremity the work was under progress. After which, up to $6\frac{2}{3}$ miles it may be said to be very nearly finished. Slight additions to slopes and banks being all that has to be done. After this again to the end, work may be said to have just commenced. The progress made in the first $6\frac{2}{3}$ miles is mainly due to the exertions of the Sepatam Sahildan in collecting Labourers for the work. The Southern part of the Canal work was commenced later & was stopped by drainage filling the excavations and rain dispersing the Coals. Endeavours will be made to collect them again and to complete the excavations if possible before the regular freshets caused by the South west monsoon fill the Saurjor River & draw away all

all Labour for Cultivation. 8 — At the Head of the Run and then took four masonry works are under progress. The two largest are a tunnel under the Canal which is being altered and partly reconstructed, its use being to convey a portion of the water of the Chander roady River from the west of the Canal for the irrigation of lands lying to the east of it. & a masonry dam across what is now the main channel of that River, by which it has lately been connected with the Canal the use of the dam being to turn water into the under tunnel whenever there is a scarcity thereof & thus prevent its being wasted. These two works are to the north of a bridge over the Canal near Caroupanny. The flooring and side walls of the under tunnel were finished & there is every reason to believe that the work will be satisfactorily completed this season there

there being a good deal of material
ready on the spot. The foundations
and body of the dam, which in previous
correspondence, is also termed a
Calingulah, have been completed.
The wing walls only have to be
raised four feet. Immediately to the
south of the Caroonpung bridge,
two smaller under tunnels are being
partly reconstructed. These are
nearly finished. About 3000 yards
to the south of the Caroonpung bridge
an under tunnel has been constructed
for the irrigation of lands to the east
ward belonging to the Village of
Karapadagay.

9. The above is an account of
all the work so far done. The com-
pletion of the Canal this season
depends entirely upon whether suf-
ficient labour can be obtained.
If there be no more rain & if the
floods are rather late there is a
very good prospect of the work already
estimated for being finished.
otherwise

otherwise I fear it will not be
completed this season.

I have the honour to be

Sir,

Your most Obedt Servt

Wm. L. L. L. L.

Ag. Supt. Engineers, C. D.

P. No. Sept. 15

no. 1769

Proceedings of the Madras Government

Under date the 13th June 1867

Read the following

From the Dy. Superintendant

of the 6th Division (H.E. No 2657) 28th May 1867

The Govt are glad to learn from this report that the opening of the canal between Negapatnam and Tondiaroy, to complete the water communication between the former place and Vedarneem, is making good progress and they trust that the work will continue to be

vigorously prosecuted. Credit is due to the

1. Head of Negapatnam
2. public works in collecting
cookies for the work
3. W. S. & Co. for the first 1/2
4. New Dept. for the second 1/2

Sept. 14/67

[Signature]

to the Secretary
to Government
Dated 28th
Received at Madras 1/6
No 265

Referring to

the 7th Division

South Canal Works

in the 6th Division

no 1769 - 13th June 1867

no 1769 - 13th June 1867

Public Works 1867 Depart

Tro. of Govt for June
1769

Tro. of the Sea Dras Govt,
of 13th June 1867

Passing orders on a
letter from the Sup. Comdr
of the 6th Division regarding
the Nagapattani and
Vedurriam Canal works.

282-283

28 June 1867 C. J. H.