M.R.O. 1—77,006—8-6-37.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 138, 139	2881	Press / Mis.
Dated	6-12- 18 92	

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 6th December 1872.

Read the following papers:—

No. 138. From the Officiating Superintending Engineer, 6th Division, to the Officiating Chief Engineer for Irrigation and Joint Secretary to Government, Public Works Department, dated Camp at Moosery, 17th August 1872, No. 347.

With reference to your letter, No. 84, dated 30th May 1872, I have the honour to resubmit the plans and estimates for Ponnavassel Irrigation Project revised according to your instructions.

One Estimate, amounting to Rupees 19,500, with Appendix.
" Book of Survey, Plans, and Sections of Masonry Works.
" Report with two Statements from the Range Officer.
" Statement of Corrections to be made in Statement of Expected Revenue.
" Statement showing Distribution of Water.

2. I have prepared a statement in the form you have given to show the distribution of water. This statement has been prepared as carefully as possible, but it cannot be regarded as altogether accurate as the lands of so many villages are concerned and mixed up in a small space and the existing cultivation belongs to several villages and will not all be brought under the upper sluices. While, therefore, the dimensions of the channel have been calculated so as to convey sufficient water to all the land when there is a scanty supply in the river, the sluices have been allowed of sufficient dimensions to discharge a full supply to all land that may be brought under them.

3. The object of giving the channel a width of fifteen feet up to the surplus sluice was to enable it to carry water freely up to the surplus sluice should flood-water find its way into the channel, and I think that it would be as well not to decrease its width to this point. I have, however, prepared a revised estimate reduced as you suggested, the total amount of which is 19,500 Rupees.

4. Below the surplus calingulah a depth of 1½ feet was allowed in the channel as during the irrigation season I believe it will not be found possible to keep up a depth of two feet throughout the channel and it was assumed that two feet was all there would be at the head of the channel.

5. The channel from the surplus calingulah is a natural hollow, capable of carrying off all the water that will be discharged into it.

6. The double-vented tunnel on Road No. IV. has been altered to 2·8 feet vents instead of 2·6 feet vents, as you directed, the floor being one foot below the bed of the channel. I think, however, it would be better to keep the floor on the same level as the bed of the channel and if the accelerated velocity caused by the tunnel was sufficient to scoop out the bed to protect the bed up to the point where the velocity becomes so far reduced again that the current ceased to act up on it.

7. I have sent the Statement of Returns to the Collector for correction, and he has reduced the amount by Rupees 1,557-6-0 on the ground that there is some extent of land which cannot produce two crops. The Return as originally sent was prepared from information received directly from the village authorities, and I do not see why this information should not be accepted as correct. If, however, we allow the reduction made by the Collector, the returns will still amount to Rupees 9,927, or very nearly fifty-one per cent. on the reduced amount of the estimate.

8. The position of the sluice marked E. for the supply of Maila-Ponnavassel may be moved a little to the west in carrying out the work.

No. 247.

No. 138A. *Note by the Acting Chief Engineer for Irrigation.*

With his letter, No. 347, dated 17th August, the Superintending Engineer of the 6th Division resubmits an estimate of Rupees 19,500 for irrigating a strip of land immediately adjacent to the Coleroon Bank comprising an area of 5¾ square miles. Of this 1¾ square miles are at present irrigated, but on a large portion of it a second crop will hereafter be raised; ¾ of a square mile consist of garden lands which will be much improved, and the 3¾ of dry land will be converted into wet land.

2. This land appertains to fourteen villages and is about seven miles north of Tanjore, and extends for a length of nearly ten miles, half east and half west of the longitude of Tanjore, and it will draw its supply from the Cauvery, which here, it may be said, never fails, for even at the driest season of the year a depth of two feet may be obtained in the channel by forming a Coroomboo or small bank consisting of brush-wood, nanal, sand, etc., in the river bed, and the project is framed so as to admit of a full supply being carried to the lands with a depth of two feet of water in the channel.

3. The estimate has been carefully prepared, and both irrigation and drainage have been amply provided for. The estimate was returned in May last that some trifling modifications might be made and that the revenue statement might be checked by the Collector.

4. The revenue anticipated from the project was Rupees 11,484-8-0, and this has now been reduced to Rupees 9,927-2-0.

	Rs.
The estimate amounts to	19,500
The capitalized value of the revenue (Rupees 35-13-0) now derived from the land to be taken up for the work, taking the 4 per cent. paper at 102, is	903
Total...	20,403

The return on the capital outlay will, therefore, be 48·6 per cent., and it is probable that the full amount will be realized in the second or third year after the completion of the work. The return seems a large one, but it is correctly estimated, and is due to the fact that no expensive head works are required.

5. As the work is likely to be highly remunerative it will be well to put it in hand at once. The land through which the head of the channel runs is very valuable and appertains to villagers who are not interested in the project, and it may be necessary to take up the land under Act X. of 1870. To admit of negotiations for the land being at once entered upon and of arrangements being made for the preparation of bricks so that the masonry works may be carried out during the next working season, I would suggest that Rupees 4,000 from the Reserve should at once be placed at the disposal of the Superintending Engineer of the 6th Division.

Fort St. George,
2nd *November* 1872.

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

No. 139. Order thereon, 6th December 1872, No. 2,881.

IRRIGATION, No. 8.

His Excellency the Governor in Council sanctions the estimate of Rupees 19,500 for the Ponnavassel Irrigation Project and allots Rupees 4,000 for the immediate commencement of the work. It is well ascertained that though the Reserve is exhausted money will be available from other new works in progress, and specific allotment will be made at a later date. The balance of the estimate will be provided for in 1873-74.

(True Extract.)

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

To the District Engineer, Tanjore.
,, Chief Engineer for Irrigation.
,, Controller of Public Works Accounts.

Exd. A. S. Rodgers.

Statement shewing distribution of Water under Pönaveassel Irrigation Project

Distance Miles	Distance Yards	Land to be supplied Values	Land supplied Values	Name of Village	Sluice	Water to be Carried Cubic feet per Second	Bottom Width of Channel in feet	Remarks
	•	660	"			99	18	
			71	Vythenathumpettah	C D			
1	521	589	"			83	15	
			104	Mudal Pönaveassel	E			
2	641	1485	"			72	12	
			235	Kela Pönaveassel	F			
				Mantoogoody	G			
				Narrikal	H			
				Velangoody	K			
3	580	250	"			37	6	
			125	Villeanelloor	L			
				Shemangoody	M			
				Madahu	N			
				Annagoody	O			
				Oorkagoody				
7	1240	125	"			18	4½	
			125	Veeramangoody Thavengoody	P			

(5)

Supg Engrs Office 6th Divn
Museri - 17 August 72.

John Stubs - Major R.E.
Offg Supg Engineer 6th Divn

Enclosure in a letter from the Offg Superintending Engineer 6th Division to the Acting Chief Engineer for Irrigation and Joint Secretary to Government. D.P.W. No 347 dated 17th August 1872.

C
7/705/72
P.W. 5401/72.

Statement shewing distribution of water under Ponnaseli Irrigation Project.

(9)

Corrections made in foregoing Statement by the Collector of Tanjore.—

Name of Village.	Total of Columns 4, 7 & 10			Deduct for land already brought under cultivation and seed-bed which cannot be cultivated with a second crop.			Remainder being the increase of Revenue actually anticipated.—		
	12 Rs	as	p	13 Rs	as	p	14 Rs.	as	p
Vythiana thenpettah	832	7	1	134	11	9	697	11	4
Maila ponnaseli	1758	14	6	"	"	"	1758	14	6
Keela Ponnaseli									
Mantoogoody	2751	10	11	197	1	8	2554	9	3
Narikal									
Maila Velangoody									
Keela Velangoody	3530	10	4	663	10	7	2866	15	9
Velliamullen									
Cakagoody									
Shemangoody	905	8	"	212	5	4	693	2	8
Madam									
Annagoody	245	6	"	76	8	8	168	13	4
Veeramangudy									
Kaveriangoody	1459	15	2	273	"	"	1186	15	2
Total	11454	8	"	1557	6	"	9927	2	"

(Signed) Jr. Jn. Cadell.
obdt Collector.

(True Copy) Jr. Cadell Major. R.E.
obdt Supdg Engr 6th Division

Trichy's Office 6th Divn
the 17th August 1872

No. 347.

Supg Engs office 6th Division
Camp Moodery 17th August 1872.

(IV)

From,

Major. J. O. Hasted. R.Es
Offg Supg Engineer 6th D.n

To,

Major R. F. Oake. R.E.
Offg Chief Engineer for Irrigation
& Joint Secretary to Govt
P.W.D. – Fort Saint George.

Sir,

With reference to your letter No. 84, dated 30th May 1872, I have the honor to resubmit the Plans & Estimates for Poonawpal Irrigation Project revised according to your instructions.

2 ——— I have prepared a Statement in the form you have given to show the distribution of water. This Statment has been prepared as carefully as possible, but it cannot be regarded as altogether accurate as the Lands of

Enclosure in a Letter from the Offg Supg Engineer 6th Division, to the Acting Chief Engineer for Irrigation and Joint Secretary to Govt P.W.D. No. 347 dated 17th August 1872.

CC

5/10/72

P.W.S 401/72

Proc.b "Duty 72 L. No. 138.

Corrections made in foregoing Statement by the Collector of Tanjore.—

of so many Villages are concerned and mixed up in a small space and the existing cultivation belongs to several Villages and will not all be brought under the Upper Sluices - while therefore the dimensions of the Channel have been calculated so as to convey sufficient water to all the land when there is a scanty supply in the river, the Sluices have been allowed of sufficient dimensions to discharge a full supply to all land that may be brought under them -

3 —— The object of giving the Channel a width of 15' upto the Surplus Sluice was to enable it to carry water freely upto the Surplus Sluice should flood water find its way into the Channel, and I think that it would be as well not to decrease its width to this point - I have however, prepared a revised Estimate reduced as you suggested, the total amount of which is 19500 Rupees -

4 —— Below the surplus Calingulah a depth of 1½ feet was allowed in the Channel

Channel as during the irrigation Season I believe it will not be found possible to keep up a depth of 2 feet throughout the Channel and it was assumed that 2 feet was all there would be at the head of the Channel -

5 —— The Channel from the Surplus Calingulah is a natural hollow, capable of carrying off all the water that will be discharged into it -

6 —— The double vaulted tunnel on Road No 4 has been altered to 2. 8 feet Vents instead of 2. 6 feet Vents as you directed - The floor being 1 foot below the bed of the Channel - I think however, it would be better to keep the floor on the same level as the bed of the Channel and if the accelerated velocity caused by the tunnel was sufficient to scoop out the bed to protect the bed upto the point where the velocity becomes so far reduced again that the current ceased to act upon it -

7 —— I have sent the Statement of returns to the Collector for correction and

and he has reduced the amount by Rs. 1557-6-0 on the ground that there is some extent of land which cannot produce 2 crops, The return as originally sent was prepared from information received directly from the Village authorities & I do not see why this information should not be accepted as correct. If however we allow the reduction made by the Collector, the returns will still amount Rs. 9927 or very nearly 5% per cent on the reduced amount of the Estimate.—

8——The position of the Sluice marked E for the supply of Irrila. Pon. manapad may be moved a little to the west in carrying out the work.—

I have the honor to be
Sir,
Your most obdt Servt
J. Mc Estell Major. R.E.
Offg Supg Engineer 6th Dn

10 4

13

provided for: The estimate was returned in May

and he has reduced the amount by

From,

The Officiating Superintending Engineer,
6th Division.

To, The Chief Engineer
for Irrigation &
Secretary to Govt.
P.W.D.

No. 347.

Dated 17th August 1922.
Received on the 19th idem.

P.W.D. Secretariat.
Remitting with
certain information, Revised
Plans & Estimate for
Permanent Irrigation
Project.

Ref. Chief's D.O.

Sir,

No. 247.

In forwarding the Executive Engineer, Tanjore's letter No. 1/8 dated 15th August 1922 with enclosures, I have the honour to submit the revised Estimate for Rs. 19,500 for irrigating a strip of land immediately adjacent to the Coleroon Bank comprising an area of 5¾ square miles, of which 1¾ square miles are at present irrigated but in a large portion of it no 2nd crop with hereafter. The remaining ¾ of a square mile consist of garden lands which will be much improved, and the 3¾ of dry land will be converted into wet land.

2. This land appertains to 14 villages and is about 7 miles North of Tanjore and extends for a length of nearly 10 miles half east, and half west of the longitude of Tanjore and it will draw its supply from the Cauvery which here, it may be said, never fails, even at the driest season of the year, a depth of 2 feet may be obtained in the channels by forming a Coroomboo or small bank consisting of brushwood, vegetable sand &c., in the River bed and the Project is framed so as to admit of a full supply being carried to the lands with a depth of 2 feet of water in the channels.

3. The estimate has been carefully prepared and both irrigation and drainage have been amply provided for. The estimate was returned in duplicate

fact that some trifling modifications might be made and that the Revenue Statement might be checked by the Collector.

4. The Revenue anticipated from the Project was Rs. 174840 and this has since been reduced to Rs. 9927 : 2 : 0

The Estimate amounts to Rs. 19500

The Capitalized Value of the Revenue (Rs. 35 : 13 : 0) now derived from the land to be taken up for the Work, taking the 4 per Cent paper at 102 is ÷ 903

20403

The return on the Capital outlay will therefore be 4806 per Cent and it is probable that the full amount will be realized in the 2nd or 3rd year after the completion of the Work. The return seems a large one but it is correctly estimated and is due to the fact that no expensive head works are required.

5. As the work is likely to be highly remunerative it will be well to put it in hand at once. The land through which the head of the channel runs is very valuable and appertains to Villagers who are not interested in the Project and it may be necessary to take up the land under Act X of 1870. To admit of negotiations for the land being at once entered upon and of arrangements being made for the preparation of Bricks so that the Masonry Works may be carried out during the next working Season, I would suggest that Rs. 4000 from the Reserve should at once be placed at the disposal of the Superintending Engineer of the 6th Division.

Fort St. George.
2nd Nov. 72

H. Pitt Major. R.E.
Actg Chief Engr for Irrigation.

To
The Secretary to Government
P.W. Dept.

Public Works Department

(2)

No 2801

Proceedings of the Madras Government
under date the 6th Decr 72.
Read the following

From Ag Chief Engr
for Irrigation

No H.E. No 2477/2 Dated 30th Nov 72

His Excellency
the Governor in Council
sanctions the Estimate of
Rs. 19,500 for the Ponnaiyar
Irrigation Project and
allots Rs. 4,000 for the
immediate commencement
of the work. It is
well ascertained that, though
the Revenue is exhausted,
money will be available
from other New Works
in progress, and specific
allotment

H.S.E.

J. W. S.

P. D. No 1872 Dated
Received 30th Dec
No 5401

From
The Secretary Chief Engr
for Irrigation

To
The Secretary to Govt
P.W. Dept

No 2477

Dated 2nd Nov 72.
Rec'd 4th Nov
Issued 5th Nov 72.

Abstract

Name of Work
Ponnaiyar Project

Estimate Rs 19,500

Expenditure to end of last month Nil

Expenditure during this month Nil

Total Expenditure Nil

Amount of Estimate Sanctioned Rs 19,500

Amount allotted in Budget Rs 4,000

Amount required during this month Rs 4,000

Remarks

Estimate Rs 19,500

Expenditure to end of last month Nil

Expenditure during this month Nil

Total Expenditure Nil

Amount of Estimate Sanctioned Rs 19,500

Amount allotted in Budget Rs 4,000

Amount required during this month Rs 4,000

No 1128

Cw. 30 Dec 72

allotment will be
made at a later date
The balance of the
Estimate will be pro-
-vided for in 1873-74

Chief Engr

Put with Drawing Nos. 138 & 139
of a later date

Pr 5401

Govt. of {1872} Madras.

PUBLIC WORKS.

To The District Engr
Tanjore

Dated

Recd. Encl. 6

G. O. 6th Dec 1872. No. 2881.

Nos. 138 & 139

Ponnaraeel Irrigation Project,

Tanjore District. ~~Tanjore~~

Estimate of Rs. 19,500 for the Ponnaraeel Irrigation Project, sanctioned; Rs. 4000 allotted for the immediate commencement of the work and balance to be provided in 1873/74