Public Works (1897) Department.

1901

G.O., No. 190 I

DATED 23. February 1897

[Despatch Abstract.]

Peddamallalammah Tank: Deferring sanction to the estimate for excavating a supply channel to the —, Kurnool Dt. till the necessity for the execution of the work under "33. Famine Relief" arises.

F.C. 23/2/97

[P.W. 26 / 1,600—30-11-96.]

Indexed. 23/2/97

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.

Government (1897) of Madras.

PUBLIC WORKS.

Recd.	1897.	Enclosures
Regd.		Spare copies

G.O., No. 190 I., 23rd February 1897.

FEBRUARY.

Peddamallalammah Tank

Deferring sanction to the estimate for excavating a supply channel to the —, Kurnool district, till the necessity for the execution of the work under "33. Famine Relief" arises.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.

READ—the following papers :—

From W. B. DEWINTON, Esq., Superintending Engineer, III Circle, to the Chief Engineer for Irrigation (through the Collector of Kurnool), dated Chintagunta, 17th November 1896, No. 18-C.

I have the honour to forward, herewith, an estimate for excavating a supply channel to Peddamallalammah tank of the Velgode group, Velgode project (in part), amounting to Rs. 1,04,380 for very early sanction as a famine-relief work.

2. The report fully explains the nature of the work.

3. It will give 3,000 people employment for six months.

4. I have ordered the first three miles to be laid out ready for commencement of work at short notice in anticipation of sanction.

ENCLOSURE.

REPORT to accompany estimate for "Digging a supply channel to Peddamallalammah tank of the Velgode group, Velgode project (in part)."

This estimate provides for carrying out the major portion of what is known as the Velgode project, which forms part of the famine programme of the Kurnool district.

2. The project may conveniently be divided into parts—

(1) The excavation of a channel from 74 miles, Kurnool-Cuddapah canal, to the Peddamallalammah tank, the nearest of the Velgode group of tanks, a distance of 22 miles.

(2) The excavation of a channel from the end of (1) to connect such of the tanks as do not receive the surplus of the Peddamallalammah tank.

Details are ready for No. (1) and not for No. (2), so No. (1) is submitted at once.

3. The channel will eventually irrigate 8,226 acres as follows :—

	ACS.
Under channel	5,830
„ tanks	2,396
Total ...	8,226

It is not expected that this will occur immediately or even in the near future, but eventually as population increases and the ryots become accustomed to irrigation, the land is sure to be taken up, and meanwhile the channel will protect dry crops in years of drought. It is therefore recommended as a famine work.

4. The channel is laid out throughout its length on a falling contour of 2 feet per mile, and its excavation presents no difficulties whatever, the ground being level across and the cross drainage small. A great deal of jungle will, however, have to be cleared.

5. The hydraulic details on which the channel has been designed are as follows :—

Area to be irrigated	8,226 acres.
Duty per cubic foot	50 „
Required discharge	165 c. ft. per second.
Fall per mile	2 feet.
Depth of water	3 „

$\surd = C\sqrt{rs}$.

Taking a bed width of 23 feet and side slopes of 1½ to 1

$$R = \frac{82{\cdot}5}{33{\cdot}8} = 2{\cdot}44.$$

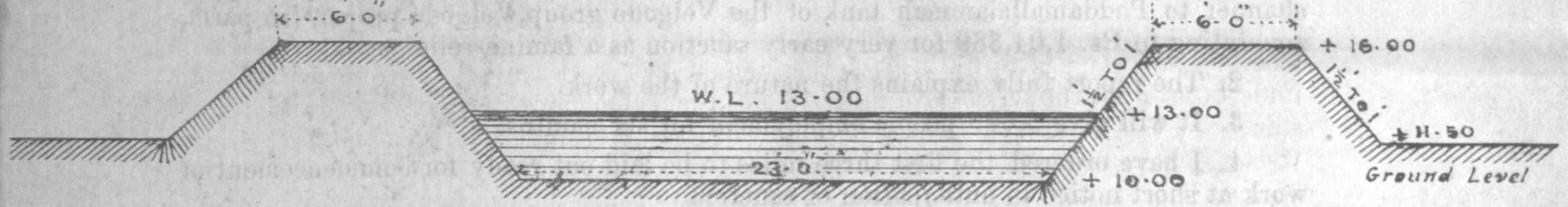
$$S = \frac{1}{2640}$$

$$C = 66{\cdot}5$$

$$\surd = 66{\cdot}5\sqrt{\frac{2{\cdot}44}{2640}} = 2.$$

$$D = a\surd$$
$$= 82{\cdot}5 \times 2 = 165 \text{ c. ft. per second} = \text{discharge required.}$$

6. The channel will therefore have the following section :—



Only 1½ feet of cutting is allowed, because there is only that average depth of surface soil, the sub-soil being shale, very expensive to remove. The balance of earth required for banks will be obtained from side pits.

7. The land is all Government waste, no compensation is therefore required.

8. Lump sums are entered for the masonry works required. Their designs will be submitted for sanction as soon as possible.

(Signed) W. B. DEWINTON,
17th November 1896. Superintending Engineer, III Circle.

Forwarded for favour of early sanction.

(Signed) C. M. MULLALY,
20th November 1896. Collector.

No. 219 I.

Submitted to Government with a recommendation that the estimate forwarded by the Superintending Engineer, III Circle, be sanctioned for execution as a famine-relief work if required. The estimate is only a rough one and, if the work is taken up, a regular estimate will have to be made in order to determine how much of the cost should be charged to Irrigation funds. It would appear from paragraph 6 of the

Superintending Engineer's report and the details of the estimate that the project is not likely to prove one which can be confidently recommended merely on its merits as an irrigation work.

30th November 1896. (Signed) W. HUGHES,
Chief Engineer for Irrigation.

No. 63 W.

Forwarded to the Secretary to Government, Revenue Department, with the request that it may be ascertained from the Commissioner whether the work is now required for relief purposes.

8th December 1896. (Signed) F. J. WILSON,
Dy. Chief Engineer for Irrigation.

Read—the following G.O., Mis. No. 254, Revenue, dated 16th January 1897 :—

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 14th January 1897, Mis. No. 270 :—

Read—the following letter from M.R.Ry. D. JAGANATHA RAO Pantulu Garu, Head-quarter Deputy Collector of Kurnool, to the Collector of Kurnool, dated 4th January 1897, R.C. No. 2274-Rev.

With reference to your endorsement, C. No. 3054-Eng. of 1896, dated 20th December 1896, on Board's Proceedings, Mis. No. 6559 (Revenue Settlement, Land Records and Agriculture), I have the honour to report that there is no necessity to undertake either the whole or any portion of the Velgode project in the present circumstances of the weather. It may be found necessary to undertake it if the next south-west monsoon fails.

2. The Tahsildar reports that the project has already been investigated by the Public Works Department, and that all the papers connected with the project are either in your or the Executive Engineer's office. He, however, sends in a statement showing the probable revenue derivable by the project at Rs. 25,330.

No. 66-Eng.

Copy submitted to the Secretary to the Commissioner of Revenue Settlement, Land Records and Agriculture, Madras, with reference to Board's Proceedings, Mis. No. 6559 and Mis. No. 6830, dated 14th and 24th December 1896, respectively.

2. The enclosures received with the first of the Board's Proceedings are herewith returned.

3. The undersigned agrees with the Deputy Collector.

KURNOOL,
7th January 1897. (Signed) C. M. MULLALY,
Collector.

Resolution—dated 14th January 1897, Mis. No. 270.

Submitted for the information of Government with reference to G.O., Mis. No. 5031, dated 9th December 1896.

(True Copy and Extract.)

(Signed) R. V. SRINIVASIAR,
Secretary.

Order—Mis. No. 254, Revenue, dated 16th January 1897.

Transferred to the Public Works Department.

(True Extract.)

(Signed) LIONEL DAVIDSON,
Under Secretary to Government.

ORDER—No. 190 I., dated 23rd February 1897.

In the circumstances reported by the Board of Revenue, sanction to the estimate for excavating a supply channel to the Peddamallalammah tank is deferred till the necessity for the execution of the work under "33. Famine Relief" arises.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, III Circle, with two enclosures.
" Revenue Department.

Mad. Md. Pahilvan.

H.

Excavating a supply channel to Pedda mallalamma tank

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

No. 190 I dy 23-2-97.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Irrigation

UNDER date the

READ the following

From Supdg Eng, III Circle. No 18C dy 17. 11-96.

Endorsement of Collector of Kurnool. dy 20.11.96

Do. by E. I. No 219 I dy 30.11.96

Do. by I. " 63 W dy 8.12.96

Do. by Rev Dept. 204 Mis dy 16.1.97

Print with Report

Print with Enclos

G.P.

In the circumstances reported by the Board of Rev. sanction to the estimate for excavating a supply channel to the Peddamallalammah tank is deferred till the necessity for the execution of the work under "33. Famine Relief" arises.

Issue W.H. 19.2.97

This order may issue. But, I understand that the proposed Channel might be valuable service in opening for cultivation the belt of red loam lying between the foot of the hills and the present Canal. It shd. not be lost sight of.

A.S.H 15.2.97

D.I

B.E 16.2.97

To The Chief Engr for I.
Supdg Engr III
Rev Dept

with 2 enclos.

ICCS 27/1/97

28/1/97

W.H 4/2/97

11

C.S.J.
24-11-96.

5

Public Works (1897) Department.

CURRENT No. 695

From The Revenue Dept

Order

No. 254 Mis

Dated 16th Jany 1897

Received 20 } 1-97

Registered 20 }

Enclosures 6

Spare copies

SUBJECT.

Transferring to the P.W.D. R.P. submitting for the information of Govt letter from the Collr. of Kurnool reporting that there is no necessity to undertake the whole or any portion of the Vilgade project at present

[illegible] 1/97

14-E 10/2 R 16/2

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

5

Dis: 66/Eng of 97. 7½ P.

Copy submitted to the Secretary to the Commissioners of Revenue Settlement, Land Records and Agriculture, Madras, with reference to Board's Proceedings, No. 6559 Mis: and 6830 Mis: dated 14th and 24th December 1896 respectively.

G.O. 5246 / 18-12-96

not read

2. The enclosures received with the first of the Board's Proceedings are herewith returned.

3. The undersigned agrees with the Deputy Collector.

Kurnool
7th January 1897

(Signed) C. M. Mullaly
Collector

Resolution

Submitted for the information of Government with reference to Government Order

8

Order No. 5031 Misc: dated [illegible]
9th December 1896.

(True copy and Extract)

R. V. Srinivasan
Secretary

To
The Secretary to Government,
Revenue Department with 4
Enclosures in original.

Exd
14/1/97

189 7
DEPARTMENT.
No. 1
Current No. 348

PW. 5/68

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture) ~~[illegible]~~ dated 14th January 1897, No. 270 Misc.

8P

Revenue

Order thereon, No. 254 Misc, dated 16th January 1897.

Transferred to the Public Works Department.

(True Extract)

Lionel Davidson
18/1/97
Under Secretary to Government.

To the Public Works Department with the notes in original.

RS

REVENUE BOARD OFFICE, MADRAS.

78

Proceedings of the Board of Revenue

(Revenue Settlement, Land Records and Agriculture.)

Dated 14th January 1897.

No. 270 Mis:_

READ the following:-

R. C. No. $\frac{2274}{\text{Rev:}}$ of 96. _ Head Quarter Dy: Collector's office Kurnool, Dated 4th January 1897

From

M.R.Ry.

D. Jagannatha Rao Pantulu garu,

Head Quarter Deputy Collector of Kurnool.

To

The Collector of Kurnool,

Sir,

With reference to your endorsement C. No. $\frac{3054}{\text{Eng}}$ of 96 dated 20th December 1896 on Board's Proceedings No. 6559 Mis: (Rev: Sett: Land Records and Agriculture), I have the honor

honor to report that there is no necessity to undertake either the whole or any portion of the Velgode project in the present Circumstances of the weather. It may be found necessary to undertake it, if the next South-west monsoon fails.

2. The Tahsildar reports that the project has already been investigated by the Department of Public Works, and that all the papers Connected with the project are either in your or the Executive Engineer's office. He, however, sends in a Statement showing the probable revenue derivable by the project at Rs 25,330 - " - "

I have &c
(Signed) J. Williams
Hd. Qr. Dy. Collector

Rev. E. 6/695/97

169 REVENUE DEPARTMENT. Enclosure No. Current No.

Public works Department
Irrign. Branch

Proceedings of the Madras Government

Under date the -

Read the following

Print with Report.

From the Supg. Engineer 3d Circle - (H.E. No 18. C. d/ 17. 11. 96)

Endorsement of the Collector of Kurnool. (H.E. " " 20. 11. 96)

No. 219 I

Submitted to Government with a recommendation that the estimate forwarded by the Supg. Engineer 3d Circle be sanctioned for Execution as a Famine Relief work if required. The estimate is only a rough one and if the work is taken up a regular Estimate will have to be made in order to determine how much of the Cost should be charged to Irrigation Funds. It would appear from para 6 of the Supg. Engineer's report and the details of the Estimate that the project is not likely to prove one which

Can

To
H.E. the Governor.
The Hon'ble Mr. Bliss. C.S.I.
" " Mr. Grose.

As a relief work, I should think there is hardly occasion now for sanctioning this work. But, my Hon. Colleagues are better able to give an opinion than I am.

A.E.H.
5.12.96

I regret that I cannot form any opinion - I don't know the Country & never heard of the project before & cannot find the places named on such maps as I have, so that I have no idea whether the project is likely to be a good famine relief work

H.B.
7/12/96

I don't think the project is wanted as a relief work now, but the Comm. might be asked. J.G.

can be confidently recommended merely on its merits as an irrigation work.

Order thereon - dated Decr/96. No.

—"—

The following estimate is sanctioned:—

Irrigation

43. Minor works & Navign.

Minor works for which Capital & Rev. accts are kept.

Kurnool - Cuddapah Canal

Open Capital Account

3. Distributaries

Unremunerative work

Excavating a supply channel to Peddamallalammah tank -

BR 8.12.96

		Rs	Rs
1 - Preliminary Expenses -	1. Clearing jungle -	9,500	9,500
3. works -	2. 1 Head Sluice - - ...	1,000	
	3. 10. Bridges - - - .	3,000	
	4. 18 Inlets - - - - .	1800	
	5. 13. Outlets - - - - .	2,600	
	6. 1 Bridge & Drop at 13 3/4 mile -	800	
	7. 1 Aqueduct across Kali at 13 1/2 mile - .	5,000	
	8. 1 - Do - Do - at 12 3/4 mile.	5,000	
	9. 1 - Do - Do - " 14 1/2 "	5,000	
	10. Syphon at 10 1/6 mile (Budagala Vagu)	1,000	
	11. Drainage culvert at 19 1/2 mile -	800	
	Carried over	26,000	9,500
	Brought forward -	26,000	9,500
	12. Aqueduct at Gazulavagu at 20 1/8 mile - - - - - -	3,000	
	13. 8 Syphons at intervals -	6,000	
			35,000
4 - Earthwork -	14. Cutting & embanking.	44,500	44,500
	15. Unforeseen works -		15,000
	Total I. Works -		1,04,000
	II. Establishment - .		23,920
	III. Tools & Plant.		2,080
	Total Estimate Rs		1,30,000

2. This sanction is registered as No I of 1896 - 97 and will expire on 31st March 1898.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

(H.S. No I of

Forwarded.

W.H. 30/11

To

The Chief Engineer for Irrign

" Supg Engr 3 Circle - in M/S.

" Exr of P.W. Accts.

" Revenue Department.

P6

No 63 W.

Forwarded to the Secretary to Govt. Rev: Department with the request that it may be ascertained from the Commissioner whether the work is now required for relief purposes

D. J. 8/12/96

C.E. I.
24-11-96

Public Works (1896) Department.

~~CURRENT~~ R No. 48 KR

Urgent

COLLECTOR
18 NOV. 96
KURNOOL

Order

From
W. B. de Winton Esqr.
Supdg. Engineer,
III Circle

No. 18 C

Dated 17th November 1896
Received 23 – 11 – 96.
Enclosures 3
Spare copies

SUBJECT.

Pedda Mallalammah Tank of the Velgode group – Submitting for early sanction as a famine relief work an estimate of Rs. 104,380 for excavating a supply channel to –

F. C. I.

The estimates have been submitted.

CE & [illegible]

23/11

Forwarded for favor of Early sanction.

20.11.96. C. E. Liston

Entered
J.H.

BACK PAPERS.

G.O.	No.	Department.	Date.
G O	232	I	14. 5 96
Receipt	48	KB	17 11 96
Issue	219	I	30 11 96
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PMC	695	.	16 1 97

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Report to accompany Estimate for
"Digging a supply channel to Pedda-
nadlalammah Tank of the Velgode
Group - Velgode Project (in part)."

This estimate provides for carrying out the major portion of what is known as the Velgode Project, which forms part of the famine programme of the Kurnool District.

2. The Project may conveniently be divided into parts

(1) The excavation of a channel from 74 miles Kurnool-Cuddapah Canal to the Pedda nadlalammah tank, the nearest of the Velgode group of tanks, a distance of 22 miles.

(2) The excavation of a channel from the end of (1) to connect such of the tanks as do not receive the surplus of the Pedda nadlalammah tank.

Details are ready for No (1) and not for No: (2), so No: (1) is submitted at once

3. The channel will eventually irrigate 8226 acres as follows-

Under

1896
REVENUE DEPt.
Enclosure No. 1
T. Current No. 8974

compensation is therefore required.

8. Lump sums are entered for the masonry works required. Their designs will be submitted for sanction as soon as possible.

CHIEF ENGINEER
FOR IRRIGATION.
[illegible] NOV. 96
R 48KR

W. B. de Winton
17.11.96
Superintending Engineer
III Circle

[illegible]/11

FC 2105/97

P 1159/96

P.W.E. 4
695/97

1897
REVENUE DEPARTMENT.
Enclosure No. 2
To Current No. 348

Recd 1

No. 18C

Superintending Engineer's Office,
3RD CIRCLE.
Camp Chintagunta ~~Bellary~~ 17 Nov 1896.

FROM W. B. deWinton Esquire
SUPERINTENDING ENGINEER,
IIIRD CIRCLE,

To
THE Chief Engineer
for Irrigation,
Madras.

Through the Collector of Kurnool

18.

Enclosures.
1 Detail estimate
1 Abstract - do -
1 Report.

Sir,

I have the honour to forward herewith an Estimate for excavating a supply channel to Pedda Mallammah Tank of the Velgode group - Velgode Project (in part) amounting to Rs: 1,04,380 for very early sanction as a famine Relief Work.

2. The Report fully explains the nature of the work.

3. It will give 3,000 people employment for 6 months.

4. I have ordered the first 3 miles to be laid out ready for commencement of work at short notice in anticipation of sanction.

I have the honour to be,
Sir,
Your most obdt. Servt.,

W. B. de Winton
17.11
Superintending Engineer
III Circle

1896
REVENUE DEPARTMENT.
Enclosure No. 2
To Current No. 8976

2

	Acres
Under Channel - - -	5830
— do — tanks - - -	2396
	8226

It is not expected that this will occur immediately or even in the near future, but eventually as population increases and the ryots become accustomed to irrigation, the land is sure to be taken up, and meanwhile the channel will protect dry crops in years of drought. It is therefore recommended as a famine work.

4. The channel is laid out throughout its length on a falling contour of 2' per mile, and its excavation presents no difficulties whatever, the ground being level across and the cross drainage small. A great deal of jungle will, however, have to be cleared.

5. The hydraulic details on which the channel has been designed are as follows.

Area to be irrigated - - -	8226 acres
Duty per cft	50 "
Required discharge	165 Cft per Sec.

fall

fall per mile - - -	2'
Depth of water - - -	3'

$V = C\sqrt{rs}$

Taking a bed width of 23 feet and side slopes of $1\frac{1}{2}$ to 1

$r = \frac{82.5}{33.8} = 2.44$

$s = \frac{1}{2640}$

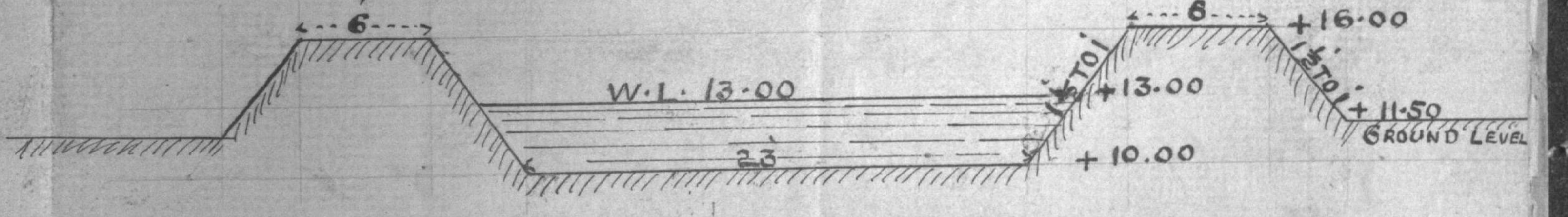
$C = 66.5$

$V = 66.5 \sqrt{\frac{2.44}{2640}} = 2.$

$D = aV$

$= 82.5 \times 2 = 165$ Cft per Second = discharge required.

6. The channel will therefore have the following section.



Only $1\frac{1}{2}$' of cutting is allowed because there is only that average depth of surface soil, the subsoil being shale very expensive to remove. The balance of earth required for banks will be obtained from side pits

7. The land is all Govt. waste, no compensation

CHIEF ENGINEER
FOR IRRIGATION.
23 NOV. 96
No. R 48KR

From
The Superintending Engineer,
IIIrd Circle,
Bellary.

To
The

Dated
Received
189

Enclosures.
No.
Subject.

R 216/57
4

R 1157/96
4

C.W. 2.3
648/97

1897
REVENUE DEPARTMENT.
Enclosure No. 4
To Current No. 318

12

1