Public Works (1896) Department.

G.O., No. 1829

DATED 19/2/96

[Despatch Abstract.]

Thadapalli channel, Coimbatore Dn — Estimate for resluicing — sanctioned

[P W 26
1,500—25-10-95.]

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.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated February, 19th

Recd. *Encl.*

G.O. No. 132 I., 19th Feb. 1896.

FEBRUARY.

Thadapalli Channel

Estimate of Rs. 6,200 for re-sluicing —, Coimbatore division, from $11\frac{1}{2}$ to $18\frac{1}{4}$ miles, sanctioned.

No. 182 I., 19th February 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers :—

From J. HANNAN, Esq., Superintending Engineer, IV Circle, to the Chief Engineer for Irrigation, dated 18th January 1896, No. 11 I.

I have the honour to submit, for sanction of Government, an estimate amounting to Rs. 6,200 for re-sluicing the Thadapalli channel from $11\frac{1}{2}$ to $18\frac{1}{4}$ miles in the Coimbatore division.

2. It is hoped that the accompanying report and list of sluices will explain what is proposed.

Enclosure.

Report to accompany plan and estimate for re-sluicing Thadapalli channel from $11\frac{1}{2}$ to $18\frac{1}{4}$ miles.

The channel has already been re-sluiced from head to $11\frac{1}{2}$ miles, and a side channel has been excavated from $18\frac{1}{4}$ to 22 miles.

2. The estimates now submitted provide for re-sluicing the gap between the above, 43 sluices taking the place of 122. The waste of water in this length of the channel is now enormous, and makes it impossible to get water down to the lower reaches, and the outlay now contemplated in stopping this waste will be repaid many times over.

3. Of the forty-three sluices now proposed, ten will consist of iron pipes laid on four slabs of concrete, without regulating apparatus of any kind, the area irrigated by them being small. Twenty-three will consist of similar iron pipes with cisterns in rear to distribute water, because these sluices take the place of three or more old ones. Eight will consist of iron pipes with wing walls and shutters with locking apparatus in front and cisterns (generally) in rear, because the area under them is larger, while two will be masonry sluices irrigating large areas.

4. The size of the sluices has in every case been made larger than that arrived at theoretically to avoid all complaints and litigation, and because the levels of the land to be irrigated by one sluice often vary greatly.

5. The cisterns in rear have been estimated for solid, the vents in them can be made at time of construction as circumstances require. It may be better to provide dividing dams in some cases instead.

6. The discharges have been calculated with ordinary water level in the main channel, that being the prevailing condition.

(Signed) W. B. deWINTON,
Executive Engineer, Coimbatore Division.

19th December 1895.

LIST of new sluices to be put in Thadapalli channel left bank from 11½ to 18¾ miles 3″ to 6″ depth in rear allowed throughout.

[Figures in block type show old sluice at which new sluice is to be fixed.]

New serial number.	Old serial numbers.	Mileage.		Ayacut.		F.S.L. in channel.	O.W.L. in channel.	Floor level of sluice.	Head taken as	Discharge required at 40 acres per cubic feet.	Discharge given.	Size of sluice required.	Size of sluice given.	Description.	Length.	Remarks.	
		Miles.	Furlongs.	Acres	Cents.												
									FEET.	C. ft. per second.	C. ft. per second.						PLAN.
1	1, **2**	11	4-4½	9	63	202·31	201·14	199·14	1	·25	·489	3″	4″	Iron pipe.	27′	Area irrigated being small a larger pipe allowed than theoretically sufficient.	A
2	**3**, 4	..	6-6½	16	35	202·10	200·80	199·10	·75	·425	·662	5″	5″	do.	27′	4″ pipe would be just too small.	A
3	**5**	12	0-½	154	23	201·81	200·58	197·58	2	3·9	4·32	10″	10″	do.	18′	With wing walls and locking apparatus.	C
4	**6**, 7, 8, 9	12	1-1½	22	52	201·80	200·48	199·50	·5	·575	·777	6″	6″	do.	27′	5″ just too small ; cistern in rear required.	B
5	**10**	12	4½-5	10	13	201·21	199·84	198·34	1	·25	·489	3″	4″	do.	27′	Same as No. 1.	A
6	11, 12, **13**, 14 ..	12	7-7½	18	54	200·57	198·97	197·72	·75	·463	·662	5″	5″	do.	27′	Cistern in rear required.	B
7	15, **16**, 17	13	0-½	34	89	200·15	198·77	197·77	·5	·87	1·06	7″	7″	do.	27′	6″ just too small ; cistern in rear required.	B
8	**18**	13	½-1	80	70	200·10	198·59	197·34	·75	2	2·14	9″	9″	do.	13½′	With wing walls and locking apparatus.	C
9	19, **20**	13	½-1	15	33	199·89	198·59	197·80	·25	·38	·382	5″	5″	do.	35′	....	A
10	21, **22**	13	1½-2	9	64	199·80	198·19	196·79	·75	·25	·423	4″	4″	do.	27′	3″ just too small.	A
11	23, **24**	13	2½-3	18	80	199·64	198·04	195·75	1·75	·46	·646	4″	4″	do.	27′	Head great.	A
12	25, **26**, 27, 28 ..	13	4½-5	20	70	199·60	197·91	197·07	·25	·5	·55	6″	6″	do.	27′	Cistern in rear required.	B
13	29, **30**, 31, 32, 33 ..	13	6½-7	19	82	198·89	197·44	196·33	·5	·5	·54	5″	5″	do.	27′	Do. do.	B
14	**34**	14	1-1½	99	10	198·37	196·79	194·29	2·00	2·5	2·76	8″	8″	do.	18′	With wing walls and locking apparatus.	C
15	**35**, 36 37	14	1½-2	20	0	198·13	196·58	195·14	1	·5	·764	5″	5″	do.	27′	4″ just too small ; cistern required.	B
16	38, 39, **40**, 41	14	3½-4	14	20	197·59	196·05	195·02	·5	·35	·54	5″	5″	do.	27′	Do. do.	B
17	**42**	14	4-4½	160	97	197·23	195·93	193·03	2·50	4·00	4·85	10″	10″	do.	18′	Head great with wing walls and locking apparatus.	C
18	43, 44, 45, **46** ..	14	6-6½	14	96	197·02	195·52	194·91	·25	·375	·382	5″	5″	do.	27′	Cistern required.	B
19	47, **48**, 49, 50	14	7-7½	17	63	196·61	194·94	194·32	·25	·44	·55	6″	6″	do.	27′	Do.	B
20	51, 52	15	0-½	564	0	196·38	194·70	192·20	2·1	14·1	14·21	1·6 s. ft.	1·75 s. ft.	Masonry vent.	Tunnel.	Size of vent 1½′ × 1-2″ with wings and locking apparatus.	D
21	53, 54, **55**	15	0-½	31	04	196·36	194·70	193·70	·5	·77	·77	6″	6″	Iron pipe	27′	Cistern required.	B
22	**56**	15	½-1	10	0	196·36	194·70	194·20	·25	·25	·244	4″	4″	do.	27′	4″ considered sufficient as it has only to irrigate one main land.	A
23	**A**	15	½-1	270	00	196·30	194·70	192·70	1·75	6·75	7·4	1′ × 1′	1′ × 1′	Masonry.	Tunnel.	With wings and locking apparatus.	D
24	**1**	15	½-1	70	48	196·14	194·68	192·35	1·75	1·76	2·12	7″	7″	Iron pipe.	18′	Do. do.	C
25	2, **3**, 4	15	½-1	27	90	196·14	194·68	194·20	·25	·7	·748	7″	7″	do.	27″	Cistern required.	B
26	5, **6**, 7	15	1-1½	47	41	196·14	194·68	193·05	1	1·19	1·5	7″	7″	do.	27″	Do. Six inches just too small.	B
27	8, 9, 10, **11**, 12, 13 ..	15	2-2½	38	17	195·90	194·26	193·86	·25	·954	·977	8″	8″	do.	27″	Do.	B
28	14, **15**, 16	15	4-4½	11	59	195·69	194·15	193·04	·5	·29	·346	4″	4″	do.	27″	Do.	B
29	**17**, 18	15	7½-8	3	18	192·92	191·30	190·80	·25	08	·137	3″	3″	do.	27″	Do.	B
30	19, **20**, 21	16	½-1	8	82	191·57	190·31	189·31	·5	·22	·346	4″	4″	do.	27″	Do.	B
31	22, **23**, 24	16	2½-3	10	14	190·76	189·62	188·62	·5	·25	·346	4″	4″	do.	27″	Do.	B
32	25, 26, 27, **28**, 29, 30 ..	..	3½ 4	24	83	190·24	189·15	188·40	·25	·62	·748	7″	7″	do.	27″	Cistern below.	B
33	31, **32**, 33	..	6-6½	27	26	190·10	188·45	187·13	·75	·68	·952	6″	6″	do.	27″	Do. required.	B
34	34, 35, **36**	..	6-6½	65	48	190·06	188·39	187·39	·5	1·64	1·75	9″	9″	do.	13½′	Wings and locking apparatus ; cistern in rear.	C
35	**37**	16	6-6½	2	10	190·06	188·36	188·00	·25	·05	·137	3″	3″	do.	27′	Land too high to irrigate except by lift.	A
36	38, **39**, 40, 41 ..	..	6-6½	48	99	190·03	188·35	187·85	·25	1·25	1·24	9″	9″	do.	13½′	Wings and locking apparatus and cistern in rear.	C
37	42, 43, **44**	..	6½-7	56	72	189·38	188·03	187·74	·25	1·42	1·53	10″	10″	do.	13½′	Do. do.	C
38	45, **46**	..	7-7½	18	61	189·38	188·03	187·50	·25	·47	·55	6″	6″	do.	27′	Same as No. 1 sluice.	A
39	47, **48**, 49, 50, 51, 52 ..	17	0-½	27	25	189·15	187·64	186·81	·5	·68	·777	6″	6″	do.	27′	Cistern in rear.	B
40	**53**, 54, 55	17	4-4½	9	52	186·86	185·56	186·06	·25	·24	·382	5″	5″	do.	27′	Cistern required. Head small channel in rear and land high.	B
41	56, **57**, 58	..	6½-7	11	42	186·81	184·55	183·55	·5	·3	·346	4″	4″	do.	27′	Do. do.	B
42	59, 60	..	7-7½	14	83	186·02	184·34	182·84	·75	·37	·423	4″	4″	do.	27′	Land high.	A
43	61, 62, 63, **64**, 65 ..	18	½-1	13	83	184·88	183·68	183·18	·25	·35	·382	5″	5″	do.	27′	Cistern in rear.	B

(Signed) W. B. DEWINTON,
Executive Engineer, Coimbatore Division.

17th December 1895.

No. 41 I.

Note by the Chief Engineer for Irrigation.

The description of means for regulating the discharge of the pipes has not been given. It has been found that those put down formerly when the upper reach of the channel on re-sluiced were not in all cases effective.

10th Feb. 1896. (Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Chief Engineer for Irrigation.

ORDER—No. 182 I., dated 19th February 1896.

The following estimate is sanctioned:—

Irrigation.
43. Minor Works and Navigation.
Minor Works for which Capital and Revenue Accounts are kept.
Thadapalli Channel System.
Open Capital Account.
I. Works.
2. Main Canals and Branches.
3. Regulators.
Re-sluicing Thadapalli channel from 11½ to 18¼ miles.

	RS.
Estimate	6,200

2. This sanction is registered as No. 201 I. of 1895-96, and will expire on 31st March 1898.

3. The attention of the Superintending Engineer is drawn to the remarks of the Chief Engineer for Irrigation.

(True Extract.)

Under Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ Superintending Engineer, IV Circle,
with nine enclosures.
„ Examiner, Publi cWorks Accounts.
„ Revenue Department.

Exd. Shaik Karim.
Spare Copies.

A

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

No 182 I. d/ 19th Feby 1896

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Irrigation A

UNDER date the 68

READ the following

Print with Report & list of new sluices

From Supdg Engr, IV Circle, No. 11 I. d/ 18 Jan/96

Recd d/ 10-2-96

Note by C. E. I., w/14 Feb

Print

The description of means for regulating the discharge of the pipes has not been given. It has been found that those put down formerly when the upper reach of the channel on re-sluiced were not in all cases effective.

RREDB
10/2

The following estimate is sanctioned:—

Irrigation.

43. Minor Works & Navign.
Minor Works for which Capital & Revd. Accts are kept.
Thadapalli channel system.
Open Capital Account
I Works.
2. Main Canals & Branches
3. Regulators
Resluicing Thadapalli channel from 11½ to 18¼ miles.

Estimate Rs 6,200

2. This sanction

P. W. CURRENT No. 1459

~~Dt~~

No. 712 I of 5-9-95 ✓
" 960 I " 12-11-95 ✓

Estimate for resluicing Thadapalli channel from 11½ to 18¼ miles.

Enclos 12 (4 plans)
Recd: 12.2.96

7. S. I.
18/2

Issue

Recd
17/2

16/2

BR
15.2.96

E. I. Form No. 1—500—14-5-95.

'1.E.13/2 R15/2.

List of new Sluices to be put in Thadapa[illegible]li Channel left bank from 11½ to 18¼ Mile

3" to 6" depth in rear allowed throughout

New serial number	Old Serial numbers	Mileage		Ayacut		F.S.L in Channel	O.W.L in Channel	Floor level of Sluice	Head taken as	Discharge required at 40 acres per cft	Discharge given	Size of Sluice required	Size of Sluice given	Description	Length	Remarks	PLAN
		M	F	A	C				Feet	cft per sec	cft per sec						
3	11	3	4	3	3	4	4	4	8 3	5	5	3	3				
1	2	11	4-4½	9	63	202·31	201·14	199·14	1	·25	·489	3"	4"	Iron pipe	27'	Area irrigated being small a larger pipe allowed than theoretically sufficient	A
2	3. 4	"	6-6½	16	35	202·10	200·80	199·10	·75	·425	·662	5"	5"	do	do	4" pipe would be just too small.	A
3		12	0½	154	23	201·81	200·58	197·58	2	3·9	4·32	10"	10"	do	~~do~~ 18	With wing walls and locking apparatus	C
4	7. 8. 9	12	1-1½	22	52	201·80	200·48	199·50	·5	·575	·777	6"	6"	do	27'	5" just too small - Cistern in rear reqd.	B
5		12	4½-5	10	13	201·21	199·84	198·34	1	·25	·489	3"	4"	do	do	Same as No. 1	A
6	11, 12 14	12	7-7½	18	54	200·57	198·97	197·72	·75	·463	·662	5"	5"	do.	do	Cistern in rear required	B
7	15, 17	13	0½	34	89	200·15	198·77	197·77	·5	·87	1·06	7"	7"	do.	do	6" just too small — do —	B
8		13	½-1	80	70	200·10	198·59	197·34	·75	2	2·14	9"	9"	do	~~30~~ 13½	With wing walls & locking apparatus	C
9	19.	13	½-1	15	33	199·89	198·59	197·80	·25	·38	·382	5"	5"	do.	35'		A
10	21	13	1½-2	9	64	199·80	198·19	196·79	·75	·25	·423	4"	4"	do	27'	3" just too small	A
11	23.	13	2½-3	18	80	199·64	198·04	195·75	1·75	·46	·646	4"	4"	do	27'	Head great	A
12	25, 27. 28	13	4½-5	20	70	199·60	197·91	197·07	·25	·5	·55	6"	6"	do.	do.	Cistern in rear required	B
13	29 31, 32, 33	13	6½-7	19	82	198·89	197·44	196·33	·5	·5	·54	5"	5"	do.	27"	do do	B
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	198·37	196·[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	With wing walls & locking apparatus	[illegible]
15	36, 37	14	1½-2	20	0	198·13	196·58	195·14	1	·5	·764	5"	5"	do.	27'	4" just too small. Cistern required	B
16	38, 39. 41	14	3½-4	14	20	197·59	196·05	195·02	·5	·35	·54	5"	5"	do	27'	do do	B
17		14	4-4½	160	97	197·23	195·93	193·03	~~3~~ 2·50	4·00	4·85	~~6"~~ 10"	~~6"~~ 10"	do	~~do~~ 18	Head great With wing walls & locking apparatus	~~A~~ C
18	43, 44, 45	14	6-6½	14	96	197·02	195·52	194·91	·25	·375	·382	5"	5"	do.	27 do	Cistern required	B
19	47 .49, 50	14	7-7½	17	63	196·61	194·94	194·32	·25	·44	·55	6"	6"	do	do	do.	B
20	, 52	15	0-½	564	0	196·38	194·70	192·20	~~2·5~~ 2·1	14·1	~~15·4~~ 14·21	1·6 sft	1·75 sft	Masonry vent	Tunnel	Size of vent 1½'×1·2" with wings & locking apparatus	D
21	53, 54	15	0½	31	04	196·36	194·70	193·70	·5	·77	·77	6"	6"	Iron pipe	27'	Cistern required	B
22		15	½-1	10	0	196·36	194·70	194·20	·25	·25	·244	4"	4"	do	do	4" considered sufficient as it has only to irrigate 1 main land	A
23		15	½-1	270	00	196·30	194·70	192·70	1·75	6·75	7·4	1'×1'	1'×1'	Masonry	Tunnel	With wings & locking apparatus	D
24		15	½-1	70	48	196·14	194·68	192·35	1·75	1·76	2·12	7"	7"	Iron pipe	18	do — do —	C
25	2 4	15	½-1	27	90	196·14	194·68	194·20	·25	·7	·748	7"	7"	do	27"	Cistern required	B
26	5, 7	15	1-1½	47	41	196·14	194·68	193·05	1	1·19	1·5	7"	7"	do	do	do — do. 6" just too small	B
27	8, 9, 10 12, 13	15	2-2½	38	17	195·90	194·26	193·86	·25	·954	·977	8"	8"	do	do	do — do	B
28	14, 16	15	4-4½	11	59	195·69	194·15	193·04	·5	·29	·346	4"	4"	do	do	do do	B
29	, 18	15	7½-8	3	18	192·92	191·30	190·80	·25	·08	·137	3"	3"	do	do	[illegible] do	B
30	19 21	16	½-1	8	82	191·57	190·31	189·31	·5	·22	·346	4"	4"	do	do	do do	B
31	22. 24	16	2½-3	10	14	190·76	189·62	188·62	·5	·25	·346	4"	4"	do	do	do do	B
32	25, 26, 27 29, 30	"	3½-4	24	83	190·24	189·15	188·40	·25	·62	·748	7"	7"	do	do	Cistern below	B
	33	"	6-6½	27	26	190·10	188·45	187·13	·75	·68	·952	6"	6"	do.	do.	Cistern required	B
		"	6-6½	65	48	190·06	188·39	187·39	·5	1·64	1·75	9"	9"	do	13½	Wings & locking apparatus. Cistern in rear	C
		3	4	3	3	4	4	4	3	5	5	3	3	5	4	#20	3

Report to accompany plan and estimate for resluicing Thadapalli channel from 11½ to 18¼ miles.

The channel has already been resluiced from head to 11½ miles and a side channel has been excavated from 18¼ to 22 miles.

2. The estimates now submitted provide for resluicing the gap between the above, 43 sluices taking the place of 122. The waste of water in this length of the channel is now enormous, and makes it impossible to get water down to the lower reaches and the outlay now contemplated in stopping this waste will be repaid many times over.

3. Of the 43 sluices now proposed ~~11~~ 10 will consist of iron pipes laid on 4 slabs of concrete, without regulating apparatus of any kind the area irrigated by them being

small

small. 23 will consist of similar iron pipes with cisterns in rear to distribute water, because these sluices take the place of 3 or more old ones. ~~7~~ 8 will consist of iron pipes with wing walls and shutters with locking apparatus in front and cisterns (generally) in rear, because the area under them is larger, while two will be masonry sluices irrigating large areas.

4. The size of the sluices has in every case been made larger than that arrived at theoritically to avoid all complaints and litigation, and because the levels of the land to be irrigated by one sluice often vary greatly.

5. The cisterns in rear have been estimated for solid, the vents in them can be made at time of construction as circumstances require. It may be better to provide dividing dams in some cases instead.

6

6 The discharges have been calculated with ordinary water level in the main channel, that being the prevailing condition

Executive Engineer
Coimbatore Division
19/12/95

SG 19/12

SUPG. ENGINEER'S OFFICE
No. 2/1008 C.9
FOURTH CIRCLE

CHIEF ENGINEER
FOR IRRIGATION
22 JAN 96
No.

Recd / 2

Ow. E.3
1459/96

No. 11/I

Supg. Engineer's office, 4 Circle,
18th January 1896.

From,

J. Hannan, Esq.,
Supg. Engineer, 4 Circle,

To,

The Chief Engineer
for Irrigation.

1 Pica

Sir,

Enclosures 25.
- 1 Report
- 1 List of Sluices
- 1 General Abstract
- 4 Plans
- 18 Detail Estimates

I have the honor to submit for sanction of Government an Estimate amounting to Rs 6,200 for resluicing the Thadapalli channel from $11\frac{1}{2}$ to $18\frac{1}{4}$ miles, in the Coimbatore Division.

2. It is hoped that the accompanying report and list of sluices will explain what is proposed.

I have the honor to be,
Sir,
Your most obedt. servant,

J. Hannan
Supg. Engineer, 4 Circle

CHIEF ENGINEER
FOR IRRIGATION.
22 JAN 96
No. 2 C I

From,

The Supg. Engineer
4th Circle

Dated 18
Despd 20 } January 1896
Rd

No 11/I

Enc: ~~25~~

Ocs E-1
1455/96

Thadapalli Channel – Submits for Sanction an estimate amounting to Rs 6200 for resluicing the