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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

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Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
24th August 1876. No. 2,241.*

Read the following —
No 145 W.

No. 563. *Note by the Chief Engineer for Irrigation*
THE following estimates from the Poloor and Chittoor Range are forwarded by
the Officiating District Engineer, North
No 461, dated 8th May 1876 Arcot, with his letter marginally noted —

Talug	Village	Work	Amount.
Wandiwash	Coonnubody	R No 126, V Tank	450
Do	Pathiry	" " 7, V large Tank	910
Do	Keelathoor	" " 257, V Tank	1,235
Gudirtum	Brumhapuram	V Nagul Tank	1,165
Poloor	Allhabad	V Anicut	1,600

2 The financial and hydraulic details of the Irrigation works concerned are
exhibited in the following statement —

1—Financial Details.

Name of Work	Ayacut, Area.	Assessment	Average Revenue for 5 years	Highest Revenue for 5 years	OUTLAY			
					During the previous 4 years	PROPOSED, ORDINARY AGRICULTURAL.		
						Original Works	Repairs	Average annual proportion of charges to Revenue
	ACRES	RS	RS	RS	RS	RS	RS	RS per cent.
Coonnubody Tank..	30	216	247	Not stated	Nil	170	280	35 4
Pathiry large do	43	264	260	Not stated	"	130	780	70 0
Keelathoor do	72	411	405	Not stated	"	225	1,010	60 9
Brumhapuram Nagul Tank	136	954	950	Not stated	"	240	925	23 7
Allhabad Anicut	"	"	"	Not stated	"	1,484	116	"
Total..	281	1,845	1,892		"	2,249	3,111	56 6

II—Hydraulic Details

Name of Work	Catchment Basin, Area	MAXIMUM SUPPLY		LENGTH OF ESCAPE		AVERAGE HEIGHT OF BUND		Surplus discharged at M.T.L. per Second	Tanks above
		Catchment per Second	Channels per Second	Total	Effective	Above FT L	Above M T L		
	SQ M	C FT	C FT.	FT	FT	FT	FT.	C FT	No
Coonnubody Tank	175	800	..	Not stated	Not stated	2 40	0 40	800	Nil.
Pathiry large do	75	464	..	E 100	100	4 50	2 50	..	..
Keelathoor do	1	503	..	Not stated	Not stated	1 61	0 00	480	..
Brumhapuram Nagul Tank	1	502	..	E 60	60	4 50	2 50	480	Not stated
Allhabad Anicut	"	"	"	Not stated	Not stated	0 88	0 00	..	..
				E 60	60	4 50	2 50	568	..
				Not stated	Not stated	2 58	0 58	..	..
				E 71	71	4 50	2 50	..	..

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type. The existing dimensions in small type. The following abbreviations are used:—C—Calingulah with dam stones. W.—Weir with flush crest. E—Escape at ground level. B—Bund of tank. V—Village. R—Revenue number.

*Proceedings of the Madras Government, Public Works Department,
24th August 1876. No. 2,244.*

3. The following is a summary of the work proposed to be carried out in each case:—

Coonumbody Tank.—Raising and repairing the bund, closing the breaches and constructing a dry stone escape. The rates for earthwork are too high. That for closing the breach may stand, the rest should be reduced to 1 Anna. The stepping of the bund as provided for is much greater than is required; it may be reduced one-half. Fifty Rupees may be allowed for grass planting in lieu of general turfing. The estimate for repairs has accordingly been reduced to Rupees 280.

Pathury large Tank.—Raising and repairing the bund, repacking the revetment, and constructing a dry stone escape. The amount of the estimate is very great. The bund is by no means a high one and rates of from 11 to 1½ Annas for earthwork are much too high—a rate of 1 Anna should be ample. The large item for repacking revetment should be omitted. The stone, even if in disorder, will be a considerable and probably sufficient protection for so petty a tank. Rupees 100 may be allowed for grass planting, but general turfing is not necessary. The estimate has been accordingly reduced to Rupees 780 for repairs.

Keelathoor Tank.—Raising and repairing the bund, closing the breaches, repairing the tank sluice and tunnel of spring channel, providing new stone revetment at the breached portions of bund and constructing a masonry escape. The rates are excessive for the leads specified and should be reduced as shown. The items for stepping and turfing have likewise been altered, and the estimate for repairs reduced to Rupees 910.

Brumhapuram Nagul Tank.—Raising and repairing the bund, repacking the revetment, and raising it with new material and rebuilding the masonry escape. The rates in this estimate are, in relation to the circumstances, much more reasonable.

Allhabad Anicut across the Cumendalanathy river.—Constructing a cut stone apron and repointing the old apron.

4. It is stated that the villagers have guaranteed an extension of cultivation under the Brumhapuram tank calculated to produce an additional revenue of Rupees 140.

No particulars of the revenue and cultivation dependent on the Allhabad anicut have been furnished, and this information is just as necessary as in the case of tank repairs. The maximum flood level should also have been shown on the section. There is no specification describing the size of the stones of which the apron is to be built or the manner in which the work is to be executed. It is to be noticed that the cut stone apron should be laid flush with the rubble masonry apron and not raised above it. The stone taken out can be added to the rear apron, which latter, judging from the section, is not in a very satisfactory state. Also that the concrete should be

* River gravel called kuppy is the best material if possible of broken or small stone rather than broken brick, and the lime mixed with soorkee. The joints of the rubble

apron under the concrete should be raked out before the concrete is put on. The escape provided for the Keelathoor tank should be seventy instead of sixty feet in length, and an addition has been made to the estimate to provide for it.

*Proceedings of the Madras Government, Public Works Department,
24th August 1876 No. 2,244.*

The following statement shows the proposed distribution of the outlay recommended for sanction, to the debit of the several heads of account involved —

Name of Tank.	Items of Estimate	FUND, ORDINARY AGRICULTURAL		Total for each Tank, &c
		Original Works	Repairs	
		RS.	RS.	RS.
Coonumbody Tank	Repairing the bund and closing the breach	170	280	450
	Dry stone escape		780	910
Pathury large Tank	Repairing the bund, &c	130		
	Dry stone escape		910	
Keelathoor Tank	Repairing the bund, &c, and closing the breaches		100	1,235
	New stone revetment for breaches	225		
	Masonry escape		775	
Brumhapuram Nagul Tank	Repairing the bund and repacking the revetment	240		1,165
	Raising the revetment		150	
Allhabad Anicut across the Cumendalanathy river	Rebuilding the masonry escape	1,484		1,600
	Cut stone apron		116	
	Repointing the old apron			

(Signed) A DEC. SCOTT, Major, R E,
Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation

To the Secretary to Government, Public Works Department

No 564 ORDER THEREON, 24th August 1876, No 2,244

IRRIGATION, No 57.

Account.

No 145-W, dated 19th August 1876

THE following estimates for Irrigation works in the Poloor and Chittoor Range, North Arcot District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned —

Irrigation.

Name of Work	Provision of Estimate	Fund, Ordinary Agricultural	Amount	Irrigation Register No.
			RS.	
Coonumbody Tank	Repairing the bund and closing the breach	Repairs	280	119-I { 1
	Dry stone escape	Original Works	170	119-I { 2
Pathury large Tank	Repairing the bund, &c	Repairs	780	120-I { 1
	Dry stone escape	Original Works	130	120-I { 2
Keelathoor Tank	Repairing the bund, &c, and closing the breaches	Repairs	910	121-I { 1
	New stone revetment for breaches	Do	100	121-I { 2
	Masonry escape	Original Works	225	121-I { 3
Brumhapuram Nagul Tank	Repairing the bund and repacking the revetment	Repairs	775	122-I { 1
	Raising the revetment	Original Works	240	122-I { 2
	Rebuilding the masonry escape	Repairs	150	122-I { 3
Allhabad Anicut Cumendalanathy river	Cut stone apron	Original Works	1,484	123-I { 1
	Repointing the old apron	Repairs	116	123-I { 2

Proceedings of the Madras Government, Public Works Department.
21th August 1876. No. 2,241.

2 These sections are registered as shown above
(True Extract)

Colonel,
Offg Under Secy to Govt, P.W.D.

all dt 29 Aug. 76

Almost all the Estimates
in these bundles do not
agree with the amount
sanctioned in E.O. I think
the construction branch
should be called upon
to correct the Estimates, as
otherwise they will lead
to confusion hereafter -

A. J. G.
2/9/76

No 145-W
Is forwarded 19 August 1876.

Act by the Chief Engineer for Irrigation

No 1461

Dated 8 May 1876

Encls 24

The following Estimates from the *Poloor & Chittoor* Range are forwarded by the *Officiating District Engineer North Arcot* with his letter marginally noted —

Taluk	Village	Work.	Rs	Amount
	Wanderash	Commubody d. 10126 V tank	450	
	do	Pathery -- -- 7 V large d.	910	
	do	Chelathoor . 287 V tank	1235	
	Gudakum.	Brimhapuram V Nagul tank	1165	
	Poloor	Alleabad . . . V Anicut	1600	

2 The Financial and Hydraulic details of the Irrigation works concerned are exhibited in the following statement —

I — Financial Details

Name of Work	Ayacut Area.	Assessment	Average Revenue for 5 years	Highest Revenue for 5 years	During the previous 4 years	OUTLAY		
						Proposed		
						Original Capital Rs.	Revised Rs.	Average annual proportion of Charges to Revenue
	Acres	Rs	Rs	Rs	Rs	Rs	Rs.	Rs
Commubody tank	20	216	247	Not stated	Nil	170	230	36.4
Pathery large d.	43	264	260		"	130	730	70.0
Chelathoor do	72	411	405		"	225	1010	60.9
Brimhapuram Nagul Tank	136	954	930		"	240	925	23.7
Alleabad Anicut					"	1484	116	
Total	271	1845	1392			2249	3111	56.6

II—Hydraulic Details

Name of Work	Catchment Basin Area	Maximum Supply		Length of Escape		Average Height of Bund		Surplus discharged at M T L per Sec	Tanks above
		Catchment per Second	Channel per Second	Total	Effective	Above F T L	Above M T L		
	Sq M	C Ft	C ft	Ft	Ft	Ft	Ft	C ft	No
Coonumboddy tank	1 1/2	300		2,152 1/2	1 1/2	2 1/2	0 40	-	1 1/2
Pathery large d.	7 1/2	464		215 1/2	1 1/2	1 1/2	0 11	-	
Heelathoor d.	1	562		152 1/2	1 1/2	1 1/2	0 00	-	1 1/2
Bramhapuram nagul tank	1	562		215 1/2	1 1/2	2 1/2	0 35	-	
Alhabad Anicut									

Note—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. The following abbreviations are used—K—Kahngulali with dam stones W—Weir with flush crest E—Escape at ground level B—Bund of tank 1st Village R Revenue number

3. The following is a summary of the work proposed to be carried out in each case—

Coonumboddy Tank Raising and repairing the bund, closing the breaches and constructing a dry stone escape. The rates for earthwork are too high. That for closing the breach may stand. The rest should be reduced to 1 anna. The stepping of the bund as provided for is much greater than is required, it may be reduced one half. 50 Rupees may be allowed for grass planting in lieu of general turfing. The estimate for repairs has accordingly been reduced to Rupees 250.

Pathery large Tank. Raising and repairing the bund, repacking the revetment, and

constructing a dry stone escape. The amount of the Estimate is very great. The bund is by no means a high one and rates of from 1/6 to 1/2 annas for earthwork are much too high—a rate of 1 anna should be ample. The large item for repacking revetment should be omitted. The stone, even if in disorder will be a considerable and probably sufficient protection for so petty a tank. Rupees 100 may be allowed for grass planting but general turfing is not necessary. The estimate has been accordingly reduced to Rupees 780 for Repairs.

Heelathoor Tank. Raising and repairing the bund, closing the breaches; repaving the tank sluice and tunnel opening channel, providing new stone revetment at the breached portions of bund, and constructing a masonry escape. The rates are excessive for the leads specified and should be reduced as shown. The items for stepping & turfing have likewise been altered and the estimate for repairs reduced to Rupees 910.

Bramhapuram Nagul Tank. Raising and repairing the bund, repacking the revetment, and raising it with new material and rebuilding the masonry escape. The rates in this estimate are, in relation to the circumstances, much more reasonable.

Alhabad Anicut across the Cunnendabanthi river. Constructing a cut stone apron and repaving the old apron.

It is stated that the villagers have guaranteed an extension of cultivation under the Brumhapuram tank calculated to produce an additional revenue of Rs 100.

The particulars of the revenue and cultivation dependent on the Alhabad Ament have been furnished, and this information is just as necessary as in the case of Tank repairs. The maximum flood level should also have been shown on the section. There is no specification describing the size of the stones of which the Apron is to be built or the manner in which the work is to be executed. It is to be noticed that the cut stone Apron should be laid flush with the rubble masonry Apron and not raised above it. The stone taken out can be added to the rear Apron which latter, judging from the section is not in a very satisfactory state. Also that the concrete should be if possible of broken or small stone rather than broken brick and the same mixed with corrie. The joints of the rubble apron under the concrete should be raked out before the concrete is put on. The escape provided for the Keelathoor Tank should be seventy instead of 10 feet in length, and an addition has been made to the Estimate to provide for

1/2 inches gravel
called Kappu
is the best
material

The following Statement shows the proposed distribution of the outlay recommended for sanction, to the debit of the several heads of account involved.—

Name of Tank	Items of Estimate.	FUND			Total for each Tank, &c
		Original Works. Capital Outlay	Ordinary & Agricultural Revenue		
			Extension and Improvements	Repairs	
Coonumboddy Tank	Repairing the bund	"	"	230	450
	Closing the breach	"	"	"	
	Dry stone Escape	170	"	"	"
Palheray large Tank	Repairing the bund	"	"	780	910
	Dry stone Escape	130	"	"	
	Repairing the bund & closing the breached	"	"	910	
Keelathoor Tank	New stone revetment for breaches - - -	"	"	100	1235
	Masonry Escape.	225	"	"	
	Repairing the bund and refacing the revetment - - -	"	"	775	
Brumhapuram Nagut Tank	Raising the revetment	240	"	"	1165
	Rebuilding the masonry escape	"	"	150	
	Alhabad Ament across the Pamen dalamathy river	Cut stone Apron	1484	"	"
Repointing the old Apron - - -		"	"	116	

Asst Secy.

Asst Secy.
Major A. E.
Deputy Chief Eng. for Irrigation
for Chief Engineer for Bura

The Secretary to Government
Public Works Department

P.W.D.

284376

No 1576.

E 1 Form No 3

No 2244 of 24 Aug 76

From
The Chief Engineer for Irrigation
to
The Secretary to Govt.
P.W.D.

No. 145-W dated 19 August 1876.

The following Estimates for Irrigation
Works in the Bobas & Chittoor Range,
North Arcot District, forwarded by
the Chief Engineer for Irrigation with his
Memorandum marginally noted are sanctioned.

Irrigation

Dated 19 } August 1876
Sept. 19 }
Encls 24
No. 145-W.

Bank Repairs - North Arcot
District - Note submitted
for sanction estimates for
certain -

Name of Tank	Provision of Estimate.	Fund Ordinary Agricultural	Amount	Irrigation Register No
Poonumboddy Tank	Repairing the bund	Repairs	280	119I } 1
	Relining the breach			
	Dry stone Escape	Original Works	170	2
Patheray large Tank	Repairing the bund	Repairs	780	120I } 1
	Dry stone Escape	Original Works	130	
Heelathoor Tank	Repairing the bund	Repairs	910	121I } 1
	Relining the breach			
	New stone revetment for breaches	do	100	122I } 2
	Masonry escape	Original works	225	
Bramhapuram Nagal Tank	Repairing the bund and repairing the revetment	Repairs	775	122I } 2
	Repairing the revetment	Original Works	240	
	Rebuilding the Masonry escape	Repairs	150	
Allicabad Anicut	Cut stone apron	Original Works	1484	123I } 1
Allicabad Anicut	Repairing the old apron	Repairs	116	

Cir-21-876 P.W.D.
of Shet 28 Aug 76

2. These sanctions are
registered as shown above

Ames

6212

Govt. of Madras.

PUBLIC WORKS.

2.

The H. C. South Street

1000

2/1/77

Det.

Ins.

Rs. 2

En.

G. O. 21st August 76, No. 2214

Hos. 503-54

Tanks. North West

Estimate for the
repairs of certain —
sanctions of —

San. Secy.
18-9-76

2553/14