2H9-30

(1) பக்கங்களின் எண்ணிக்கை 42

(2) புதுக்கித் திருப்பிய நாள் 3.92

(3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W.D துறை

அரசாணை எண். 593

மு. கோப்புத் தாள் எண்.

அச்சகம்

பலவகை

நாள் : 3 . 3 . 1894 199 .

M.Y

மடிக்கவோ, கண்டபடி கையாளவோ கூடாது.

ஆவண. கா. 1—18,006—6-9-90.

Measurement of work done in the Drainage

Municipal Commissioners' Office,

G. No. 113.

Madras, 28 May 1878.

1/53

From

L. R. BURROWS,

Acting President, Municipal Commission.

To

The Assistant Engineer
No. 1 Range, Chingleput District

Sir,

I have the honor to acknowledge the receipt of your letter, No. 333, of the 25th instant and to state in reply that the expenditure from famine relief funds placed at my disposal on account of the Vyasarpady Drainage Bank was Rs. 21,727-5-10-

Carried in the Account submitted to the Controller of P.W. Accounts "Drainage Channel" Repd.

I have the honor to be,

Sir,

Your most obedient servant,

L. R. Burrows

Acting President, Municipal Commission.

300 – 113

Measurement of Work done in the Drainage Embankment of Vyasurpandy or Sattangada

Particulars	Measurement L	B	H	Contents	Total	Remarks
Earthwork	75	12	1-6	1350		D/S3
	812	12	3	29232		
	330	12	3	11880 ✓		
	100					Not touched
	220	12	3	7920 ✓		
	522	12	2	12528 ✓		
	230	12	2-9	7590 ✓		
	945	12	2-3	25515 ✓		
	733	13	2	19058 ✓		
	17	12	1-6	306 ✓		
	296	14	2-6	10360 ✓	125739 ✓	
	23	12	1-6	414 ✓		
	62	12	1-6	1116 ✓		
	15	12	1-6	270 ✓	1800 ✓	
	Total Cubic feet or				127539 ✓	
	Cubic yards				4724	Up to Manally bridge
Earthwork	120	8	0-9	720 ✓		
	80	6	0-9	360 ✓		
	18	2	0-9	27 ✓		
	68	13	0-6	442 ✓		
	12	9	0-9	81 ✓		
	152	8	0-9	912 ✓		
	140	3-6	1/3	163 ✓		
	160	8	2/3	853 ✓		
	160	5	1/3	278 ✓		
	216	14	1/3	1008 ✓		
	300	4	3/4	900 ✓		
	300	11½	1-3	4312-6 ✓		

Brought forward

334	4	3/4	1002	4724
334	11	1 1/4	4592 1/2	
300	4	3/4	900	
300	11 1/2	1 1/4	4312	
100	12	1 1/3	1600	
234	4	3/4	702	
234	12	1 1/3	3744	
300	4	3/4	900	
300	12	1 1/3	4800	
300	4	3/4	900	
300	12	1 1/3	4800	
345	4	3/4	1035	
345	12	1 1/2	6210	
44	7	1	308	
330	4	1/2	660	
330	10	1 1/2	4950	
300	4	3/4	900	
300	10	1	3000	
100	9	1 1/2	1350	
200	12	1 1/3	3200	
380	14 1/2	1 1/2	8265	
300	14	1 1/2	6300	
46	6	1/2	138	
12	6	1/2	36	
75	8	1	600	
24	10	1/2	120	
16	12	3/4	144	
16	13	3/4	156	
75	8	1	600	

Total Cubic yards — 78281 Up to Trivettur bridge

Earth Work	21	20	1/2	210	
	18	23	3/4	310 1/2	
	12	8	1/4	24	
	6	6	1/4	9	
	18	20	1/2	180	80005

Carried over

Brought over — 80005

8	3	1/2	12
10	10	1/2	50
12	10	1/4	30
12	11	2/3	88
10	10	2/3	66 2/3
188	8	1/2	752
300	10	1 1/3	4000
295	11	1 1/2	4867 1/2
305	10	1 1/3	4066 2/3
300	11	1 1/3	4400
300	11	1 1/2	4950
300	11	1 1/3	4400
300	11	1 1/2	4950
200	11	1 1/3	2933 1/3
150	10	1	1500
350	2	1/3	233 1/3
33	2	1/2	33

8000
3148
total 11,148

Total C yards — 38066 Up to Red Hills diversion channel

Total Cubic yards — 118071

W Clerke Major R.E.
Ex Engineer Chingt Dn

Chingt Dn Office
10th April 1879

0458

Estimates for
Constructing Draining
of Sattangadoo
Embankment

Details for Drain
up to Red H. Surplus
Channel - Est. B 1870

31-10-74

4/453

General Abstract
for
Constructing Sattangadoo Drainage Embankment

B

Quantity	Description	Rate	Per	Amount	Total
118071	Cubic yards of Earthwork Actual cost by Famine Coolies	„ 4 8 3/16	C yd	34937 „ 4	
61141	C yards of Earthwork to be done	„ 1 6	do	5731-15-6	40,670 - -
160	C yds of Metalling with Laterite stone and Gravel Complete	2 4 „	C yd	360 „ „	
	Sundries and Superintendence			20 „ -	380 - -
16057	C yards of Earthwork	„ 1 6	do	1505-5-6	
	Sundries and Superintendence			44 10 6	1,550 -
					25,950
	Carried forward				68,550

Brought forward	68,550
	8,120
Grand Total Estimate Rupees	76,670

Chingleput Dn Office
10th April 1879

Major R.E.
Ex. Engineer Chingt Dn

Sibbert
Major R.E.
Ag Supg Engr 3rd Circle

Ex. [illegible]
Draftsman & Estr
27th June/79

Estimate office
[illegible]
17-7-79

34842
2521
32321

76480
32321
44159

5/53

Provincial, Ordinary
Origl. Works, Miscellan
Pub. Improvt
Inland Improvmt
— Drainage —

Work

Revised Estimate
Constructing Veyasampad
Drainage Embankm
in the Sydapett Talu

Rs 7670 " "

Abstract Estimate No of 1879-80
Chingleput Division Taluq Sydapet
Village Lattangadu

6/83

Work — Constructing 3 Vents sluices each of 6 feet span

Quantity	Description of Charges	Rate	Per	Amount	Total
113	C. yards of Concrete with Morgan's Cement	7 7 1½	Cyd	842 11 1	
414	Cyds of Brick with Morgan's Cement for foundation and Superstructure	7 6¾	Do	3055 6 "	
180	Do of Brick work in Mortar for Superstructure	4 10 4½	Do	836 11 6	
777	Cubic feet of Arch work	" 3 9	Cft	182 5 6	
20	Squares of Plastering with Cement	3 1 "	Sqr	61 4 "	
24	Do of Plastering with Chunam	2 10 9	"	64 2 "	
5·9	Cubic yards of Rough stone in Chunam for Apron	3 8 "	Cyd	206 8 "	
5½	Squares of Pointing the same	1 8 "	Sqr	8 4 "	
	Earthwork for excavating foundation and removing silt and baling water	" " " "		1457 14 "	
	Carried forward			6709 2 1	

	Brought forward		6709 2 1
28	C. yards of metalling over sluice	2 8 " C. yd	70 " "
3	Swinging shutters	162 9 "	487 11 "
48	C. feet of Granite stones	2 11 6	129 1 "
48	lbs Lead	" 8 " lb	24 " "
	Centrings	. . . .	43 12 6
2340	C. yards of Earth work for filling approaches	. . . .	182 10 6
388	do of filling with sand below foundation	6 8 C. yd	161 10 8
	Profit and loss damaged materials		45 " "
	Sundries and Superintendence		267 " 3
	Total Estimate Rupees		8120

M. Clarke Major R.E.
Ex. Engineer Chingt. Dn.

Chingt. Dn. Office
10th April 1879

Central Office
Exd.
17-7-79

9/583

Detailed Estimate No. of 1878.79
Talug Sydapet Chinglepet District
Village Sattangadu

8/53

Work Constructing a Weir to discharge into the Canal Surplus water from land to the West of Canal.

Particulars of work	No	Measurement in ft L	B	D	Content
Foundation over wells					
Body wall Lower Step	1	297. 9	12 -	. 2	7146
Do. Upper Do.	1	298-3	9. 6	2	5666 3/4
Wing walls	2	74 -	6 -	. 4	3552
Do ends	2	5. 6	5. 6	4	242
Apron	1	314 -	24 6	2	15386
Retaining wall	1	329 -	2. 6	4	2961
Total Cubic feet or					34953-9
Cubic Yards of Brick in Hydraulic Mortar					1294 2/7
Superstructure					
Body wall	1	297.½	7	-7. 32	15845
Wing wall in front	2	25 -	3. 6	15. 8	3877
Do in rear	2.	12 -	3. 6	8. 6	714
Do Centre portion	2	27 -	3. 6	12 - ½	2291.
Do Ends	2	5. 6	3. 6	15. 8	608
Total Cubic feet or					22730
Cubic Yards of Brick in Mortar					842
Plastering Body wall	1	300 -	21. 64	.	6492
Wing wall in front	2	50. 6	18 -	.	1818
Do in rear	2	15. 6	11. 00	.	341

Braught forward					8159
Wing wall Centre portion	2	27	15		810
Apron including Retaining wall	1	314	29		9106
Total Square feet or					18567
Squares of Plastering chunam 2 Coats					185 67/100
Foundation to Face wall ~~including~~ foundation	1	364	3·4½	3	3684·6
Do above	1	364	2·3	6	4914
Total Cubic feet or					8598·6
Cubic yards of Brick in Mortar					318½
Plastering Face wall	1	364	8		2912
Total Square feet or					2912
Squares of Plastering					29 12/100
Loose Stone flooring to protect the face wall	1	364	20·6	1·6	11193
Total Cubic feet or					11193
Cubic Yards of loose stone flooring					414 15/27
Rough Stone revetment North	2	100	1·6	7·6	2250
Total C feet or					2250
Cubic Yards of Rough Stone revetment					83 9/27
Excavation					
Removing the present Embankment	1	364	40	3·3	47320
Do earth up to lock Sill	1	364	48	6	104832
Body wall	1	300	14	4	16800
Wing walls	2	78	10	4	6240
Do Ends	2	5·6	5·6	4	242
Apron	1	314	23	2	14444
Retaining wall	1	328	5	4	6560
Face wall	1	368	5·9	3	6348
Total Cubic feet or					202786
Cubic Yards of Excavation					7510 18/27

Abstract Estimate

Quantity	Description of charges	Rate	Per	Amount	Total
1295	Cubic Yards of Brick in Hydraulic Mortar for foundation	5 10	C yd	7284 6	
842	Cubic Yards of Brick in Mortar for Superstructure	4 14	do	4104 12	
185½	Squares of plastering in chunam 2 coats	2 4	Sqr	417 8	
74	Brick wells 6 feet interior diameter & 10 feet deep filled with Concrete sand and well rammed 5 Rs per foot	50	each	3700	
20	Brick wells 6½ feet do do 10 feet deep do do do 6 Rs per foot	60	do	1200	
62	do 3 feet do do & 10 feet deep do do do 3 Rs per foot	30		1860	
	Face wall				
318½	Cubic yards of Brick in Mortar	4 14	C yd	1552 11	
29	Squares of Plastering with Chunam 2 Coats	2 4	Sqr	65 4	
415	Cubic yards of loose stone flooring	3 4	C yd	1348 12	
83¼	Cubic yards of Rough Stone Revetment	3 4	do	270 9	
	Carried over			21803 14	

e from
plus

Contents

8163·06
14095·80
25272·00
82935·42
84923·20
69977·95
41224·12
25842·30
22684·99
23575·20
11485·18
10596·30
7564·42
5302·54

433542·55

1605·7

ayn R.E

Cunyt

	Braught forward		21808 14
7510 2/3	Cubic yards of Excavation	1 6 2f	734 2
	Baling water		2000
	Sundries & Superintending at 5 percent		992
	Total Estimate Rupees		26,500

3rd June 1878

Ex. of Drainage
Draftsman & Est.

J. E. Paul
Assistant Engineer

Major R.E.
Actg. Supdg. Engr. 3rd Circle

27 June/79

8ws 5
7/1/84
1807

Estimate for Cutting the Drainage Channel from Trivettur Bridge to the Red Hills Surplus Channel -

9/83

Particulars	No	Measurements L	B	H	Contents
Earthwork -	7	300 -	18·02	1·51	8163·06
	7	360 -	19·10	2·05	14095·80
	8	400 -	21·06	3·00	25272·00
	9	920 -	22·88	3·94	82935·42
	10	660 -	25·20	5·10	84923·20
	11	660 -	23·88	4·44	69977·95
	12	660 -	20·96	2·98	41224·12
	13	660 -	19·10	2·05	25842·30
	14	660 -	18·68	1·84	22684·99
	15	660	18·80	1·90	23575·20
	16	660	17·94	·97	11485·18
	17	660	16·90	·95	10596·30
		256 -	18·24	1·62	7564·42
		130 -	19·24	2·12	5302·54
Total Cubic feet or					433542·55
Cubic yards of Earthwork -					16057

Major R.E.
Ex Engineer Chingt Dn

Chingleput Dn Office
10th April 1879

Revised Estimate for Constructing an Embankment from the Railway Embankment to Ladyencoppam Lock

10/83

Particulars of work	No	Measurement Length	Breadth	depth	Contents
Earth work					
Forming embankment		725	18.90	7.20	98658.
		725	18.30	6.94	92076.45
		660	17.80	6.68	78476.64
		660	18.98	7.14	89441.35
		660	20.10	8.10	107454.60
Filling breach		90	40.46	1.30	4733.82
		660	22.18	4.84	70851.79
		300	20.14	7.52	45435.84
		360	19.18	7.09	48955.03
		400	22.58	8.29	74875.28
		920	24.86	8.43	192804.21
		660	20.82	7.16	98386.99
		660	20.88	7.44	102529.15
		660	19.62	7.56	97895.95
		660	19.90	7.70	101131.80
		660	21.48	8.49	120361.03
		660	20.68	8.09	110418.79
		660	20.70	8.10	110662.20
		660	21.16	8.33	116333.44
		380	20.96	8.23	65550.30
		130	35.50	8.75	40381.25
		40	54.08	1.57	3396.22
		35	52.80	.88	1626.24
		804	33.78	7.89	214385.43
Carried forward					2086821.80

Brought forward			2086821. 80
660.	32. 50	7. 25	155512. 50
660.	31. 60	6. 80	141820. 80
660.	29. 12	5. 56	106858. 75
660.	27. 92	4. 96	91398. 91
660.	29. 22	5. 61	108189. 97
420.	29. 34	5. 67	69870. 27
1050	28. 52	5. 26	157515. 96
510.	28. 62	5. 31	77505. 82
720.	28. 92	5. 46	113690. 30
600.	29. 08	5. 54	96661. 92
660.	29. 08	5. 54	106328. 11
660	30. 82	6. 41	130387. 09
660.	33. 06	7. 53	164301. 58
660.	33. 62	7. 81	173297. 65
610.	33. 22	7. 61	154210. 56
710	33. 22	7. 61	179490. 98
530	33. 58	7. 79	138641. 74
46	42. 64	2. 47	4844. 75
13	40. 30	1. 30	681. 07
790	16. 56	6. 03	78886. 87
660	15. 84	5. 67	59276. 44
660	16. 90	6. 20	69154. 80
660	16. 94	6. 22	69542. 08
660	16. 30	5. 90	63472. 20
42	39. 04	3. 01	4935. 43
660	20. 30	7. 90	105844. 20
520	21. 26	8. 43	93195. 33
195	21. 70	8. 60	36390. 90
Total Cubic feet — or			4838728. 78
Cubic yards of Earth Work			179212

A & B

04·53
929/84

Camp Poonamallee
Chingleput Divisional Office
26 January 1880
27th Despd

No. 316/57

12/53

From
The Executive Engineer
Chingleput Dn.

To
The Superintending Engineer
3rd Circle

Sir,

E-3

1st Letter No. 113 of 28th May 78 from Presdt. Mil. Corps
1 Survey
1 Measurement of work done Containing 6 sheets

Is it usual to send G.O's to Sub Overseers?

In replying to your Memo No. 6857 dated 22nd November 1879, I have the honor to first state that the cause of delay in this report is due to not having received from the Trivellore Sub Division a G.O., called for on the 15th of December, until the 16th of January. For this remissness the Sub Overseer in fault, Amarapathy Mudly, has been fined 1/8th of his pay for the current month.

2. I have now looked over the papers and personally inspected the works of the Veysarapadi drainage scheme, and I regret to say both the works and the papers are equally unsatisfactory. The entire revised Estimate is based on an error, for cubic feet have been

1 per Cubic yard plus Rs. 28-14-" for sundries therewith, total Rs. 2400, was chargeable to the Municipality but as the stated rate at which work was actually carried out by famine labor has been shown to be faulty; it is not possible to calculate the real liability of the Municipality – Perhaps the best plan would be to take the average rate of earthwork by famine labor in Madras and thus assess the amount on the above figures –

I have the honor to be
Sir
Your Most Obedient Svt.

Executive Engineer

23/1

Put up file.
29.1.80 W.L.B.

No. 733

From

The Exe Engineer
Chingleput Dt.

To The Supg Engr
3d Circle

Dated 26th
Desp 27th } January 80
Recd 1st

Rs. 5. 7
1809 / 54

~~This letter returned on 21~~
J.C.L. 25/1/84

No 316/57
Ex 3

Veyasarpaudy drainage scheme –
Report regarding the –

G. No. 809 **Municipal Commissioners' Office,**
Madras, 17th October 1879.

From

L. R. Burrows Esq.   15/53
President Municipal Commission
Madras.

To

C. G. Master Esq.
Acting Chief Secretary to Government
Ootacamund.

Sir,

I have the honor to acknowledge receipt of the order of Government, Public Works Department, of the 14th August 1879 No. 2131 W, communicated to me through the Financial Department on the subject of a revised estimate of Rs 76,670 for the Vyasarpaudy Drainage Project.

2. In para 2 of the order the Government remark that the main portion of the outlay in the original estimate viz. Rs 34,842 has been incurred without authority in making the western bank of Cochrane's Canal into a road, and (in para 3) that as the work has been carried out under the orders of the Madras Municipality as a famine work, an explanation is required from that body as to the causes which have led to this

result

result, and reasons should be shown why the cost of the extra work due to the widening of the bank for the purpose specified should not now be debited to Municipal funds.

3 I have to explain that in the fall of 1876 when the failure of the North east monsoon caused a general movement of the surrounding agricultural population upon Madras I was called upon to assist in conducting relief measures. I had charge of a Relief Camp at Sattangud where food was issued gratuitously and the able-bodied were employed on such works as were within reach. In order to provide work I obtained the transfer of some Government waste land situated on the West bank of Cochrane's Canal North of Ellumally Bridge. The accompanying tracing shows the extent of the land. With the view of forming a Depot for night soil a boat canal was cut from Cochrane's Canal and as the land was low and swampy a portion of it was raised in beds for the purpose of being manured with the night soil which could not be disposed of by sale.

When

4 When this project had made some progress the Coolies were taken off to work at the Vyasarpady Drainage Project which was carried out under the supervision of the Officers of the Public Works Department. The flood embankment which formed a part of the drainage project has been carried along the West boundary of the land taken up for the Depôt, and contributed greatly to its usefulness by protecting it from flooding, but the position and sections of the embankment were given by the Officers of Government and I am in no way responsible for any unauthorized expenditure.

5 I am at a loss to know on what information Government find that Rupees 34,842 has been incurred by the Municipality in making the Western bank of Cochrane's Canal into a road to connect Tiruvottiyur Road with the Sewage farm. The Canal bank was made suitable for carrying a road way but no road has been made. The extra cost of this, however, if any, must have been very small comparatively.

6 In conclusion I beg to state that

in all matters connected with famine relief I considered myself merely as the servant of Government. All my accounts and reports were regularly submitted to the Additional Secretary to Government, Revenue (Famine) Department, and the Commissioners were not cognizant in any way of my proceedings.

I have the honour to be,

Sir,

Your most obedient Servant,

L. R. Burrows

President

Municipal Commission.

Municipal 1879 Department
(Madras - Drainage)

From
The President
Municipal Commission
Madras

To
The Acting Chief Secretary
to Government
Ootacamund

Dated 17th October
Recd. 20th "

G. No. 809

2 encls

Submitting explanation on the G.O. 14th August 1879, No. 2131 W regarding the revised Estimate for the Vyasarpandy Drainage Project.

No. 2056.

Transferred to the Dept. Public Works with reference to G.O. 14th August 1879 – No 2,131 W.

Offg. Under Secy.

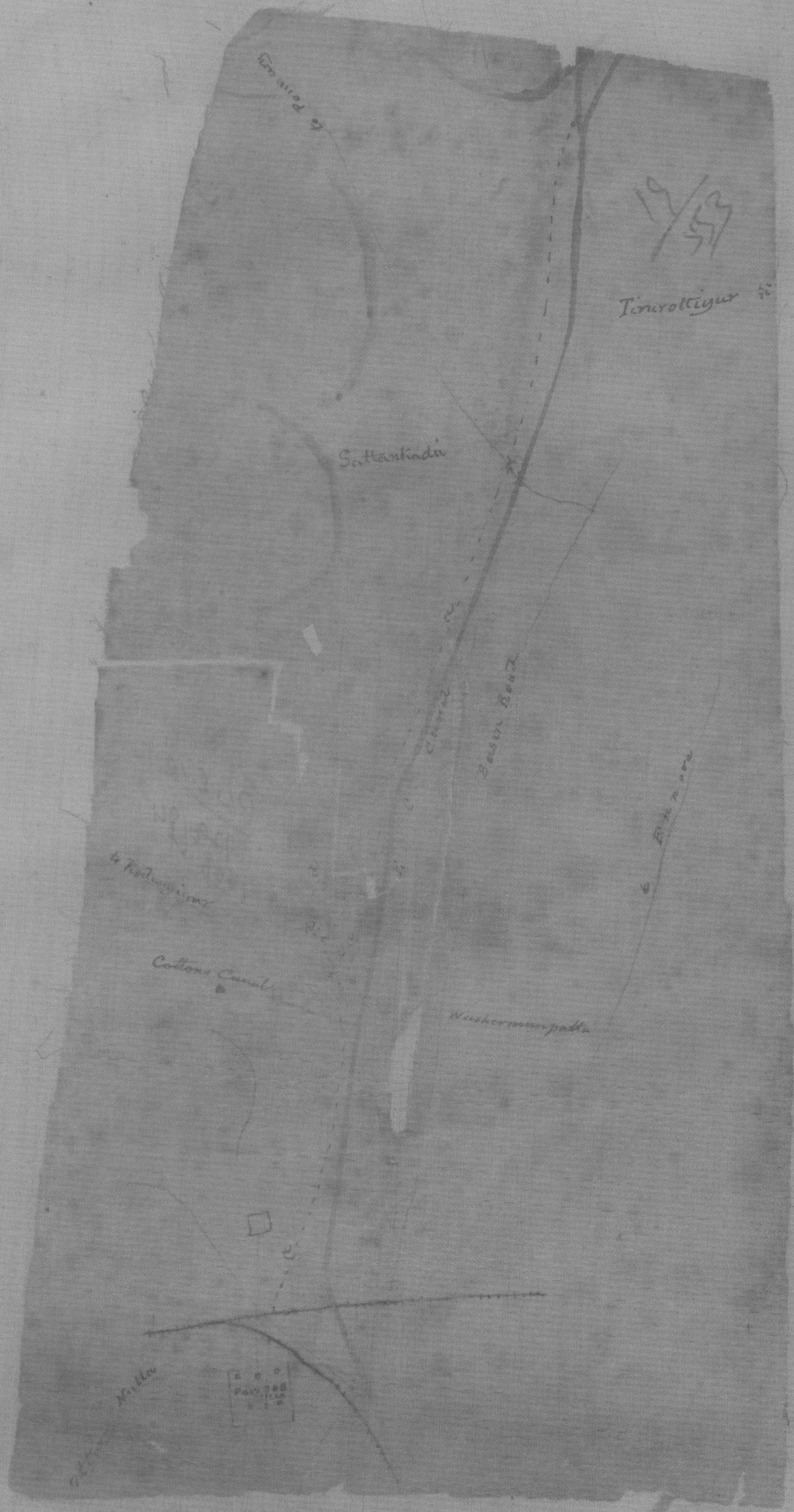
W/2061/c

October 22nd 1879

To the Secy. P.W. with place etc.

R.O. 57
1503/54

12


to Ponneri
Tiruvottiyur
Sattankadu
Canal
Basin Road
to Ennore
to Kodungaiyur
Cottons Canal
Washermanpettah
Nulla

19/553

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
~~Chepák~~, February 1894.

No. 64 W

From J. C. Larminie Esquire 28/53

SUPERINTENDING ENGINEER, V CIRCLE,

To

THE Chief Engineer
P. W. Department

SIR,

Enclosures.

With reference to your Memorandum No. 445 d/24th October 1879, I have the honor to state that the accompanying letter No. $\frac{316}{57}$ d/26th January 1880 with its enclosures &c from the Executive Engineer Chingleput contains all the available information on the subject, and fully explains the circumstances which are not worth while reopening after such a lapse of time. I request that permission be given to the reference being removed from the List of Unanswered References.

Enclosure

Enclosures.

1 Letter from the Executive Engineer Chingleput Division No. $\frac{316}{57}$ dated 26th January 1880 - with

1 Letter No. 113 of 28th May 1878 from President Municipal Commission Madras.

1 Survey.

1 Tracing (small)

1 Measurement containing six sheets

1 Financial Dept Endorsement No. 2036 d/21 October 1879 on letter from President Municipal Com=
=mission Madras of No. 809 dated 17th October 1879.

I have the honor to be

Sir

Your most obedt servt

Suptg. Engr V Circle

2/83

P. W. CURRENT No. 1503

From

THE SUPERINTENDING ENGINEER,
V CIRCLE,

To

THE Chief Engineer
P. W. D

Dated 22nd
Recd. 26th } February 1894

ENCLOSURES. 6

20. 10. 79. 445
25. 9. 93. 2457W
11. 10. 93. 2507W
29. 8. 93. 2209W
15. 2. 94. 428W

No. 64 W.

Veysarapandy Drainage Project — (Cochrane's canal) — Requesting permission for the removal of the reference regarding — from the List of Unanswered references, under the circumstances explained

No. 593W d/ 3rd March /94

Recorded

2. Memo No 445 d/ 24 Octr: 1879 may be removed from the list of unanswered references.

28.2.94

To
The Supt'g. Engr, V Circle

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