

(1) Number of pages 20.(2) Date of repair 13. 5. 43.

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public works* **DEPARTMENT.**

G.O. No. <u>2681</u>	Press ~~Mis.~~
<u>157-152</u>	
Dated <u>7. 11.</u>	<u>1862.</u>

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
7th November 1862.*

No. 151. Read the following letter from Lieutenant-Colonel J. OUCHTERLONY, R. E., Deputy Chief Engineer, Southern Circle, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, Public Works Department, dated Ootacamund, 20th October 1862, No. 231.

SIR,

1. The sanction of Government is requested for an expenditure of Rupees 7,240, on improvements to the Arkencottah Channel and for an expenditure of Rupees 36,720 on improvements to the Thadapully Channel in the District of Coimbatore, for which provision has been duly made in the current Budget, and in support of which abstract estimates and comparative statements are herewith submitted.

1 Letter from District Engineer Coimbatore, No. 115, dated 17th July 1862.
2 Memorandums.
2 Comparative Statements.
2 Abstract Estimates.

2. The references necessary for the elucidation of this subject extend over such a long period of time (nearly 10 years) that I experience a difficulty in setting forth comprehensively the causes which have led to this demand for an outlay on these irrigating channels considerably larger than was contemplated when in 1853* Government sanctioned for the Arkencottah Rupees 9,997-4-0, and for the Thadapully Rupees 23,630-15-6.

* No. 819, dated 16th July 1853, and No. 1,094, dated 27th September 1853.

3. The principal cause of excess is evidently total insufficiency of rates, cut stone work estimated in 1852-53, at Rupees 5-1-0 per cubic yard costing in 1862, Rupees 24; earth work Annas 2 per cubic yard against Anna 1 in the same year, brick in chunam Rupees 4 against Rupees 2-4-0, and rough stone in chunam Rupees 2 against Rupee 1.

4. Why the work was not executed in 1853-54, as soon as the original estimates were sanctioned, I cannot discover. Had promptitude been exhibited in this respect, no doubt a great saving would have been effected; since although it seems certain that the data on which those estimates were framed would have proved insufficient even at the period referred to, the saving would have been very great over prices now existing.

5. As it is indispensably necessary that the two important channels named should be put in proper order without any further delay, I trust Government will be pleased to accord sanction to the revised estimates now submitted, in carrying out which the District Engineer will be enjoined to exercise strict economy as to rates for work and materials, and close supervision.

No. 152. ORDER THEREON, 7th November 1862, No. 2,681.

The Government sanction the revised estimates of Rupees 60,351 and 17,237 for improvements to the Thadapully and Arkencottah Channels respectively. The amount required for the prosecution of those works, in excess of the Budget allotment, must be met from the General Funds, which will be supplemented if necessary at a more advanced period of the current official year.

(Signed) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

REVENUE IRRIGATION

(NEW WORK.)

ABSTRACT of Estimate No. of 186 -6

DISTRICT *Simbalore*
TALOOK *Sudhanganur* VILLAGE

WORK *Improving the Shadapully Reguli work and extending the Cultivation under it.*

Quantities.	Description of Work.	Rate.			Amount.	Amount of each part.
		Rs.	A.	P.	Rupees.	Rupees.
	<i>Sluice No. I</i>					
<i>7 1/2</i>	<i>sq. Rough Stone in channel</i>	<i>2</i>			<i>15</i>	
<i>13 1/2</i>	<i>sq. Brick in</i>	<i>4</i>			<i>54</i>	
<i>1.25</i>	<i>sq. flat Stone in</i>	<i>24</i>			<i>102</i>	
	<i>Reels and Bars 3/4</i>				<i>10</i>	
	<i>For One</i>				<i>151</i>	
	<i>For Two</i>					<i>302</i>
	<i>Sluice No. II</i>					
<i>23</i>	<i>sq. Brick in channel</i>	<i>4</i>			<i>92</i>	
<i>1.32</i>	<i>sq. flat Stone in</i>	<i>24</i>			<i>101</i>	
	<i>Planks Bars and Reels</i>				<i>10</i>	
	<i>For One</i>				<i>206</i>	
	<i>For Two</i>					<i>412</i>
	<i>Sluice No. III</i>					
<i>7.36</i>	<i>sq. Rough Stone in channel</i>	<i>2</i>			<i>15</i>	
<i>9.70</i>	<i>sq. Brick in channel</i>	<i>4</i>			<i>39</i>	
<i>2.56</i>	<i>sq. flat Stone in</i>	<i>24</i>			<i>62</i>	
	<i>2 Cyp. Stones</i>	<i>8</i>			<i>1</i>	
	<i>Reels and Bars 3/4</i>				<i>10</i>	
	<i>For One</i>				<i>121</i>	
	<i>For Two</i>					<i>242</i>
	<i>For Three</i>					<i>381</i>
	<i>Grand Total</i>					<i>1155</i>

Quantities. C. Yards.	Description of Work.	Rate.		Amount. Rupees.	Amount of each pa Rupee
		Rs.	A. P.		
	Brought forward				1155
	Sluice No IV				
5.53	sq. Rough Stone in Chumam 1/2 2			12	
13.26	sq. Brick in Chumam 1/2 4			52	
3.04	sq. 2nd flint Stone in 2nd 2 2 1/2			43	
	2 Cops Stones	1		2	
	Sticks and Sars 3rd			10	
	For one			149	
	For two			596	
	Sluice No V				
5.50	sq. Rough Stone in Chumam 1/2 2			11	
19.50	sq. Brick in Chumam 1/2 4			112	
1.86	sq. 2nd flint Stone in 2nd 2 2 1/2			141 1/2	
	2 Cops Stones	1		2	
	Sticks and Sars 3rd			10	
	For one			109 1/2	
	For two			1206	
	Sluice No VI				
5.35	sq. Rough Stone in Chumam 1/2 2			12 3/4	
5.28	sq. Brick in Chumam 1/2 4			21	
1.46	sq. 2nd flint Stone in Chumam 2 2 1/2			35	
	Sticks and Sars Complete			10	
	For one			78 3/4	
	For seventy two			6221	
	Sluice No VII				
3.66	sq. Rough Stone in Chumam 1/2 2			7	
Carried over 7					9178

	Brought forward	7	9178
9.15	sq. Brick in Chumam — 1/2 4 " "	38	
.91	2 nd flint Stone in — 2 nd 2 1/2 " "	21 1/2	
	Planks and Sars Complete — " " "	10	
	For One —	76 1/2	
	— " Ten —		769
	Sluice No VIII —		
6.79	sq. Rough Stone in Chumam — 1/2 2 " "	13 1/2	
3.56	2 nd Brick in Chumam — 2 nd 4 " "	14	
.99	2 nd flint Stone in — 2 nd 2 1/2 " "	21	
	Planks and Sars Complete — " " "	10	
	For One —	61 1/2	
	For Thirty five —		2152
	Sluice No IX —		
1.81	sq. Rough Stone in Chumam — 1/2 2 " "	9 1/2	
1.57	2 nd Brick in Chumam — 2 nd 4 " "	6	
.65	2 nd flint Stone in — 2 nd 2 1/2 " "	16	
	Planks and Sars Complete — " " "	10	
	For one —	41 1/2	
	— " Two —		83
	Total Repairs to 11, 8 Sluices —		12182
	Repairing 56 old Sluices to 20 " "	1120	1120
	New Head Sluice —		
706.81	sq. Brick in Chumam with plastering — 1/2 4 " "	2827	
	Carried over 2827		13302

				Brought forward	2827	13302
108.60	for	put stone in chimney	1/2	" "	4016	
258.33	do	Rough stone in do	2	" "	577	
140 1/2	fulf	Scabwood plank 1/2	3	" "	1121	
Excavating foundation and						
Baling water				" "	581	
						8371
West Sluice in the						
<u>Assauet Overlay</u>						
138.63	for	Brick in chimney	1/2	" "	555	
25.66	do	put stone in do	2 1/2	" "	616	
95.11	do	Rough stone in do	2	" "	190	
35 3/4	fulf	Scabwood for plank 1/2	3	" "	107	
Excavating foundation						
and Baling water				" "	59	
						1627
Under Sluice opposite to						
Kewipullum Jungle						
<u>Stream</u>						
148.21	for	Brick in chimney	1/2	" "	593	
27.01	do	put stone in do	2 1/2	" "	650	
95.11	do	Rough stone in do	2	" "	190	
35.75	fulf	Scabwood	1/2	3	107	
Excavating foundation						
and Baling water				" "	60	
						1600
Carried over					24800	

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	Brought forward			770	28123
12325	cy ² Gravel	cy ²	" 2 "	1541	
12325	cy ² Stone	cy ²	" 3 "	3551	6162
	Widening and deepening the				
	the ^{Nagah 9 Branch} Shadapully Channels				
53500	cy ² Selly	cy ²	" 2 "	6655	
62725	cy ² Hard Soil	cy ²	" 1 "	3920	10605
	Widening and deepening the				
	branch Channel of the Shadapully Nagah Vahad as far				
	as Channasolum				
14598	cy ² Selly	cy ²	" 2 "	1524	1524
	Continuation of Shadapully				
	Channel from Channasolum				
37648.95	cy ² Gravel	cy ²	" 1 "	2353	
5645.16	cy ² Hard Gravel	cy ²	" 2 "	1081	
413.33	cy ² Rough Stone	cy ²	" 2 "	526	1126
	Widening and improving				
	Channel near Ward and				
	Repairing bank where necessary				
21120	cy ² Widening Channel near Ward	cy ²	" 2 "	2640	
9010	cy ² Repairing different parts of	cy ²	" 1 "	563	3203
	banks				
	Brought forward				54180

Particulars	Description of works	Rate			Amount	Amount of each part
		R	D	P	Rupies	Paisas
	Brought forward					54180
	Removing Rocks in the different					
	Channels				1400	1400
	Sanctus at 5 ft on the whole				2755	2755
	Extra Establishment				1986	1986
					Rupies	60351
	Actual amount of Original					
	Estimate sanctioned by					
	Govt on the 24 th September				23631	
	1853 at 1091 vide Budget					
	1862/63 Part I item 97					
	Amount requiring					36720
	Sanction					

Attest
 Sd/-
 20th Decr 1862

Attest
 Sd/-
 20th Decr 1862

ABSTRACT of Estimate No. of 186 -6

(NEW WORK.)

DISTRICT *Sombatore*
TALOOK *Sukhmanagale* VILLAGE.

WORK *Improving the Air Recirculation Channel of a Submarine*

Quantities.	Description of Work.	Rate.	Amount.	Amount of each part.
C. Yards.		Rs. A. P.	Rupees.	Rupees.
<u>Sluice No I</u>				
7.33	(2 ^d) Rough Stone in Churnam—H ^o 2	" "	15	.
13.15	2 ^d Brick in Churnam—2 ^d 1	" "	54	
1.23	3 ^d Flat Stone in Churnam—3 ^d 24	" "	102 1/4	
	Gravel and 2000 ft	" "	10	
		For one	151 1/4	
		For three		544
<u>Sluice No II</u>				
23.05	(2 ^d) Rough Stone in Churnam—H ^o 4	" "	92	
11.32	2 ^d Flat Stone in—2 ^d 24	" "	104	
	Plank Doors and Locks	" "	10	206
<u>Sluice No III</u>				
7.36	(2 ^d) Rough Stone in Churnam—H ^o 2	" "	15	
7.76	2 ^d Brick in Churnam—2 ^d 1	" "	39	
2.59	3 ^d Flat Stone in—3 ^d 24	" "	62	
	2 Pair Sluice	" "	1	
	Gravel and 2000 ft	" "	10	
		For one	127	
		For three		508
<u>Sluice No IV</u>				
5.53	(2 ^d) Rough Stone in Churnam—H ^o 2	" "	12	
13.09	2 ^d Brick in Churnam—2 ^d 1	" "	52	
3.01	3 ^d Flat Stone in—3 ^d 24	" "	73	
		Corrected	134	1258

De gewillde heer
1871

Caroline

Wm. H. Dr. Cuyler
of the Secretary's Office
Sept. 20th 1862
Herald

Ms 231
 Robert Brown
 Estimate for services
 He has done for the
 and building the Calver
 under of a Submarine
 in the Gulf of Mexico
 drawing to the — 21st 22.

Quantities. C. Yards.	Description of Work.	Rate.		Amount.	Amount of each part.
		Rs.	A. P.	Rupces.	Rupces.
	Brought forward			137	1258
2	Exp Stones	1	..	2	
	Sticks and Bars &c	"	"	10	
					119
	— Stone No V —				
5.58	sq ^{ft} Rough Stone in Chauram	2	..	11	
10.58	2 nd Brick in Chauram	4	..	42	
1.86	2 nd flat Stone in 2 nd	24	..	44 3/4	
2	Exp Stones	1	..	2	
	Sticks and Bars &c	"	"	10	
	For one			109 3/4	
	— Stone No VI —				987
6.35	sq ^{ft} Rough Stone in Chauram	2	..	12 3/4	
5.28	2 nd Brick in Chauram	4	..	21	
1.46	2 nd flat Stone in 2 nd	24	..	35	
	Sand and Planks Complete	"	"	10	
	For one			78 3/4	
	For Twenty Eight			6112	
	— Stone No VII —				
3.66	sq ^{ft} Rough Stone in Chauram	2	..	7	
9.15	2 nd Brick in Chauram	4	..	33	
.91	2 nd flat Stone in 2 nd	24	..	21 1/8	
	Planks and Bars Complete	"	"	10	
	For one			76 1/8	
	For Stone			354	
	— Stone No VIII —				
6.79	sq ^{ft} Rough Stone in Chauram	2	..	13 1/2	
	Carried over			13 1/2	8920

	Brought forward	13 1/2	8920
3.56	sq ^{ft} Brick in Chauram	4	14
.99	2 nd flat Stone in 2 nd	24	24
	Planks and Bars complete	"	10
	For one	61 1/2	
	For Twenty	861	
<u>— Stone No IX —</u>			
1.51	sq ^{ft} Rough Stone in Chauram	2	10
1.57	2 nd Brick in Chauram	4	1
.65	2 nd flat Stone in 2 nd	24	15 3/5
	Planks and Bars complete	"	10
	For one	41 1/2	
	For Six	248	
<u>— Stone No X —</u>			
7.08	sq ^{ft} Rough Stone in Chauram	2	14
.41	2 nd flat Stone in 2 nd	24	9 1/2
2.57	2 nd Brick in Chauram	4	10
	For one	33 1/2	
	For Twenty	679	
<u>— Chalingah No XI —</u>			
213.46	sq ^{ft} Rough Stone	"	153
1520	sq ^{ft} Plaster	2	31
12	Upright Stone	"	231
Branch channel from the <u>Wazirabad</u> channel			
9319.48	sq ^{ft} Gravel	"	1165
	Carried over	1165	10939

Brought forward				1165
1838-77 1/2	Mar 2nd	1	1165	10939
				2330
Continuation of the				
Kachessah Channel				
6331.38	1/2	2	791	
12442.75	2nd	1	792	
Remaining Peck				1553
				500
Sanction at 5 Hent				770
Kachessah Establishment				1115
Paper				17237
Deduct amount of original				
Return Sanctioned by				9997
Set on the 16th July 1839				
Total Amount				
Remaining				7240
Sanction				

Octacumud
S. Arch. off. 2
20th Oct. 1862

Secretary
24th August 1862

Southem Circle Office DOW
Madras Botacamund 1863
20th Oct.

N^o 231
From

Sir Colonel J. Dichterlong R. E.
Deputy Chief Engineer W. Circle

To Colonel W. J. Birdwood R. E.
Secretary to Government P.W.D.

Revenue
Sanction

Sir, The sanction of Govt is requested for an
expenditure of Rs. 72,400

on improvements to the Arkencottah Channel
for an expenditure of Rs. 35,720

on improvements to the Thudapilly Channel
in the District of Coimbatore, for which provision
has been duly made in the current Budget, &
in support of which Abstract Estimates & Compara-
-tive statements are herewith submitted.

2. The references necessary for the elucidation
of this subject extend over such a long period
of time (nearly 10 years) that I experience a dif-
-ficulty in setting forth comprehensively the
causes which have led to this demand for an
outlay on these irrigating channels considerably
larger than was contemplated when in 1853
Govt sanctioned for the Arkencottah — Rs. 9997.4
and for the Thudapilly — Rs. 23630.15.6

3. The principal cause of excess is evidently
total insufficiency of rates, Cut Stone work
estimated in 1852/3 at Rs. 5.1/ per cubic
yard costing in 1862 — Rs. 24.; earth work

- 1. Abstract of Govt
Sanction for
1853/54
2. Comparative
Statements
2. Abstract of Govt

* Rs. 819
d/ 16th July 1853
+ Rs. 1094
d/ 27th Sept 1853

To Govt of Madras
1853/54

Enclosure

W. A.

From Mr. J. Dichterlong R. E.

Mr. W. J. Birdwood R. E.

21/3/95/62.

Recd 20th Oct 1863

Dec 231

Mr. J. Dichterlong R. E.
Deputy Chief Engineer W. Circle
Madras Botacamund 1863
20th Oct.

Aug 2

Altho the cubic yard against Arena 1 in the same year.
Brick in chumam No 4/ against No 2 & 4.

I Rough Stone in chumam No 2 against No 1.

4. Why the work was not executed in 1853/54

as soon as the original estimates were sanctioned,

I cannot disagree. Had promptitude been ex-

-hibited in this respect, no doubt a great saving

would have been effected, since, altho' it seems

certain that the data on which those estimates

were framed would have proved insufficient

even at the period referred to, the saving would

have been very great over prices now existing.

5. As it is indisputably necessary that the

two important channels named should be

put in proper order without any further delay,

I trust Govt. will be pleased to accord sanction

to the revised Estimates now submitted, in

carrying out which the District Engineer will

be enjoined to exercise strict economy as to

rates for work & materials, & close supervision.

Frank

Secretary of the B.S.

By Ch. Hys Co. C.

To
Colonel R. J. Burdwood R.S.
Secy. to Govt. P.W. &
Chapman.

164 Aug 1853 22.23.
274. 1844 - 0 403. 44.
124. 1839 - 18 -

From April 1853 to 22.23.
of 1853 1854 1855
and 1856

179. 1852 Dec 18
of 1852 1853 1854
1855 1856 1857 1858

of 1853 1854 1855
1856 1857 1858
1859 1860 1861 1862

of 1863 1864 1865
1866 1867 1868
1869 1870 1871 1872

of 1873 1874 1875
1876 1877 1878
1879 1880 1881 1882

1883 1884 1885 1886

1887 1888 1889 1890

1891 1892 1893 1894

Estimates of 1895 1896 and 1897 for improvement
to the Shadepooly and Ashland Channels
respectively. The amount required for the im-
provement of these works, in view of the Budget
allotment, must be met from the General
fund, which will be supplemented if ex-
ceeding at a more advanced period of
the current financial year.

Shadepooly
7th November 1895

1896

To the Chief Engineer Southern Division with 35 miles.
3. Accountants General - 10
1897