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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	3184	Press
B.P. No.		Mis.
Dated	11 - 11	1874
		195

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
11th November 1874.*

Read the following:—

No. 818.

No. 178:

Note by the Chief Engineer for Irrigation.

A SMALL project for the construction of a tank near Melakallur is recommended for sanction by the Collector and District Engineer.

The bund will impound the drainage from some 4 square miles of country, and in addition to this a part of the drainage of $1\frac{1}{2}$ square miles is to be diverted by means of a small anicut and channel. These drainages now cross the road from Tinnevely to Potalpullar, and fall into the Kodagan channel, injuring both; and one ground on which the project is advocated is that the construction of the tank will benefit these. Such will doubtless be the case, as instead of some silt and sand being washed down into the channel after every fall of rain, only occasionally will there be any surplus. It will nevertheless be no less requisite to provide for the security of the road and channel; for the former a large road dam and for the latter fully adequate surplus works should be constructed, and in the latter case a sufficient portion of the surplus should be got rid of by low level sluices.

2. The estimate as submitted amounted to Rupees 10,500, and contained the following items:—

	RS.
1. Constructing tank bund	7,400
2. Two sluices	360
3. Surplus weir	840
4. Anicut across small stream	310
5. Supply channel	1,150
6. Drop at lower end of do.	200
7. Petty establishment	210

3. The rate allowed for the earthwork of the bund is $1\frac{1}{2}$ Annas, which is liberal. In the sections the soil is shown as placed simply on the ground surface, but it will be only a prudent precaution to trench the ground for the seat of the bund, cutting at the deeper part of the tank two trenches 4 feet wide each, and at the ends one trench, so as to make a better junction between the ground and the bund than would otherwise be practicable. Some protection to the interior slope will be desirable, and a belt of the grass (koray) which grows abundantly at the anicuts on the Tambrapoorney should be planted to act as a breakwater. Probably the cost of this grass can be met from savings on the earthworks.

4. The 80 feet of surplus weir estimated for would, in the event of very heavy rainfall, allow the maximum water level to be too high for safety, and it will be better to make the crest 100 feet long, maximum water level will then be $34\frac{1}{2}$ inches above full supply level and $19\frac{1}{2}$ inches below the top of the bund. 160 Rupees will suffice for this extension, and the estimate for the weir will be Rupees 1,000.

5. The design for the tank sluices is defective in several respects—

1st.—Sluices should be capable of regulation from a platform above full supply level.

2nd.—The sluice tunnel should be considerably larger than the vents or openings for regulating the discharge.

Proceedings of the Madras Government, Public Works Department,
11th November 1874.

3rd.—The tunnel should be large enough to admit of inspection and repair. The District Engineer considers that one sluice will suffice, and for this on an improved design 500 Rupees may be allowed.

6. The wings of the anicut across the small stream should be $4\frac{1}{2}$ feet instead of 3 feet above the crest, and it should be ascertained what flood banks, if any, in connection with them will be required. For raising the wings the estimate has been increased from Rupees 310 to Rupees 350.

7. As there is to be no head sluice at the off-take of the supply-channel, the bank will have to be made higher than that shown in the section. Apparently too a greater bed fall may be allowed than 1.36 feet a mile. If so, the crest of the drop near the lower end can be lowered somewhat.

8. The estimate as revised will amount to Rupees 11,000, and may be entered in the Budget of 1875-76. The capacity of the tank will be 1,700,3 millions of cubic yards. The acreage to be irrigated is 230, and the Collector's letter shows that the anticipated revenue will be as follows:—

230 Acres at $4\frac{1}{2}$ Rupees	...	...	...	Rs.
Deduct dry assessment on tank bed	...	...	...	1,035
Do, on land to be irrigated	...	...	...	44
	...	...	...	58
				102
				933

Or if a double crop be compounded for, which Mr. Puckle expects will be the case, the return will be Rupees 1,278. In the one case the percentage on the outlay will be about 8 and in the other $11\frac{1}{2}$ per cent.

AMBASAMOODRUM,
9th October 1874.
(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 179. ORDER THEREON, 11th November 1874, No. 3,194.
IRRIGATION, No. 16.

District for the irrigation of 230 acres of land is sanctioned for entry in the Budget of 1875-76.

2. It is observed that the expected return from this small project is estimated at from 8 to $11\frac{1}{2}$ per cent.

(True Extract.)

To the District Engineer, Tinnevely.
" Officiating Controller of Public Works Accounts.
" Chief Engineer for Irrigation.
Exd. S. T. Austin.
Spare Copies

Colonel, R.E.,
Secretary to Government.

No 434. Tinnevely 18th November 1875
From, R. H. Puckle Esquire
Collector.

To, J. W. Rundall Esquire
District Engineer
Tinnevely

Sir,
In reply to your letter No. 644 dated 17th instant, I have the honor to inform you that as Nos 211 to 222 of Melakallur aggregating 177 acres will be occupied by the bed of the tank, the present assessment of this area must be added to that of the 230 acres you propose to irrigate—the present assessment is 4 Annas an acre, so that Rupees 44 must be deducted from prospective returns.

2 I have assessed the area under the tank at $4\frac{1}{2}$ Rupees an acre for one crop or 6 Rupees an acre for two crops, and the Villagers will, in all probability, compound for 2 Crops.

3 The assets will thus be 230 acres at $4\frac{1}{2}$ Rupees an acre minus Rupees 102 the present dry assessment of this area together with the bed of the tank: Rupees 1035 - Rupees 102 = Rs. 933 for a single crop

crop on Rs 1280 - Rs 102 - Rs 1278, if a double crop is compounded for.

4. The survey plan that accompanied your letter is herewith returned.

I have, Sir,
Signed B. H. Pickle
Collector.

True Copy

W. Randall
District Engineer
Tinnevely

No 145. District Engineer's Office, Tinnevely
Camp. Letter 18 December 1875.

From, J. W. Randall Esquire
District Engineer, Tinnevely

To, Lieut. Colonel J. Mullins R. E.
Chief Engineer for Irrigation and
Joint Secretary to Govt. D. P. W.

Sir, I have the honor to forward herewith plans and Estimate amounting to Rs. 10,500 and Specification for constructing a new Tank at Melakkallu in the Ambasamudram Taluk.

Enclosed are:
1. Detailed Estimate
2. Abstract of Estimate
3. Specification
4. Sketch showing the site of tank
5. Sketch showing the water supply
6. Section of tank
7. Design for sluice
8. Do for drop
9. Do for sluice
10. Do for weir
11. Copy of collector's letter No. 4314
12. 18-11-75
13. Will you please
14. 3.

An Estimate for this work had been prepared at the request of the collector, Mr. Pickle, before my arrival in the District by Supervisor Munnappa Pillay. This Estimate was however of the roughest kind, and made out without reference to levels. For want of a Special Surveyor or Superintending Engineer the field work was delayed till May last. The scheme is simple and will I think be sufficiently intelligible from the plans.

It is impossible to speak with any certainty as to the quantity of water available; whenever there is rain, water flows down the numerous Odays towards the site of the Tank, and when heavy rain occurs, both the Road and the Kodagan Channal into which the water ultimately falls, are damaged.

Enclosed is a letter from the District Engineer, Tinnevely, No. 145 dated 18th December 1875.

To the Chief Engineer for Irrigation, Government of Madras.

Enclosed is a copy of a letter from the District Engineer, Tinnevely, No. 145 dated 18th December 1875.

Mr. 6550

or breached. The construction of the Tank will
prevent to some extent the present silting of the
Kodagan Channel and will also it is believed
entirely prevent the breaching of the Channel Bank.

4. The Catchment basin of the Tank as now
designed is not less than 10 Square miles.

5. There are traces of an old Tank on the
same site having been in existence before,
but the Bank is at present almost obliterated.

6. I forward a copy of the Collector's letter
regarding the probable return for the expenditure
which would in the case of a single crop be nearly 90%
in the case of a double crop 12% per cent on the
outlay. It was not expected to be highly remuner-
ative, one great reason for the construction of
the Tank is to prevent damage to the Kodagan
Channel.

7. With these explanations, I trust the work
may be approved by you and funds given for it
as soon as available. The whole work could be finished
off in one year if funds are given.

I have the honor to be

Sir --

Your Most Obedt Servt.

J. W. Russell
District Engineer

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2. The estimate as submitted amounted to Rupees 10,500, and contained the following items.

- 1 Constructing tank bund - Rs 7,400
- 2 Two sluices ———— " 360
- 3 Surplus weir ———— " 840
- 4 Inlet across small stream — 310
- 5 Supply channel ———— " 1,150
- 6 Drop at lower end of ch — " 200
- 7 Petty establishment — " 240

3. The rate allowed for the earthwork of the bund is $1\frac{1}{4}$ annas, which is liberal. In the sections the soil is shown as placed simply on the ground surface, but it will be only a prudent precaution to trench the ground for the seat of the bund, cutting at the deeper part of the tank 2 trenches 4 feet wide each, and at the ends one trench, so as to make a better junction between the ground and the bund than would otherwise be practicable. Some protection

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cent.

Abraham Woodhouse, Shulbunkin St. Holk.
9 October 1874
Chief Engineer for Irriga-
tion.

To The Secretary to Govt.
P.H.D.

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[Faint, illegible handwritten text]

P. W. 1874 Dept.
H. W. 1874 for the
No: 6580

The Chief Engineer for
Irrigation

The Secy. to Govt.
P. W. 1874

1108/8

Dated 29th
Sept 20th } Oct 1st/74
Recd 20

Enclosures - 13

Note with the estimate for
the construction of a
tank in the Chinnelly
District near the Pulakur
bar.

No. 3194-11-11-74

Specification to accompany the estimate of Rs. 10500
for constructing a new tank near Melahallur in the
Ambasamoodram Taluq. of Tirunelveli District.

- I. The positions and nature of the proposed works are shown in the accompanying Plans in accordance with which the work is to be executed.
- II. The Estimate provides for constructing a tank (on the side of the old tank) with a surplus kalingulah and 2 sluices also for a dam across the Puzasam and a dyke to divert water down the new channel which is to be dug as shown on the Plan, with a masonry Drop.
- III. Tank Embankment to have a top width of 6 feet and side slopes of 2 to 1. The soil on the surface is gravelly and in making the Band the surface soil to a depth of 1 foot must be removed for a space of 10 feet below the centre of the band so that the new earth may unite with the natural soil. The earth work is to be executed in layers of 1' 0" at a time, tamped and watered: all lumps to be broken. The embankment to be roughly sectioned as it is raised. When the embankment crosses streams, the sand in the bed of these streams, must be entirely removed before the embankment is thrown up.
- IV. The surplus channel is to be excavated in accordance with the specifications and the excavated earth deposited at a distance of 5 yards from the channel.
- V. Bricks are to be of the standard size or of similar proportions but not less than 6" in length, to be well

Brick works.

Shaped and thoroughly burnt. Not more than 10 per centum of broken bricks to be delivered on the spot. The bricks are to be made on the river bank near Chikhaloor. The building, English bond to be used and the joints not to exceed on an average $\frac{1}{4}$ of an inch in thickness. The bricks are to be thoroughly wetted when used. The joints of each days work at once to be raked out to a depth of $\frac{1}{2}$ "

VI. Stone to be procured from the E. side of the Rough Stone work proposed. To be laid and to be as rectangular as possible. $\frac{1}{2}$ of the face stones to be headers and as little packing of the joints as possible to be used. The joints to be scraped out and pointed with lime putty prepared in proportion of 1 of lime to 1 of sand.

VII. The stones to be dressed on W. sides so as to do stone work. prevent the necessity for packing; in other respects, the work to be as specified for Rough Stone work.

VIII. Lime stone to be procured from the west of Timmelly town and to be burnt on the spot. The lime used must be freshly and thoroughly burnt and mixed for use with $1\frac{1}{2}$ times its value of clean sharp river sand.

IX. Timber for plank shutters to be of Vangay or Kango, free from knots or cracks and of the dimensions shown in the Estimate & Plan. Timber for Plank shutters.

District Engineer's Office
Camp Chikhaloor
18th December 1842

H. W. Rendall
District Engineer, Timmelly

Agricultural.
 Detailed Estimate of 1873-74.
 District Trimmally Taluk Ambasamoodram.
 Village Melakulloor.
 Work: Constructing a Tank at Melakulloor.

Particulars of work.	Measurement in feet			Cubic Contents.
	Length	Breadth	Height	
Constructing a Tank.		Area.		
Subbankment from ch ^o 1 to 2	300	11.66		34.98
Do " " ch ^o 2 to 3	300	44.52		13,356
Do " " ch ^o 3 to 4	300	70.75		21,225
Do " " ch ^o 4 to 5	300	103.56		31,068
Do " " ch ^o 5 to 6	300	148.79		44,637
Do " " ch ^o 6 to 7	300	171.16		51,348
Do " " ch ^o 7 to 8	300	206.00		61,800
Do " " ch ^o 8 to 9	300	249.56		74,868
Do " " ch ^o 9 to 10	300	261.71		78,513
Do " " ch ^o 10 to 11	300	265.64		79,692
Do " " ch ^o 11 to 12	300	308.66		92,598
Do " " ch ^o 12 to 13	300	368.14		110,442
Do " " ch ^o 13 to 14	300	388.77		116,631
Do " " ch ^o 14 to 15	300	424.88		127,464
Do " " ch ^o 15 to 16	300	463.50		139,050
Do " " ch ^o 16 to 17	300	476.00		142,800
Do " " ch ^o 17 to 18	300	491.66		147,498
Do " " ch ^o 18 to 19	300	447.93		134,379
Do " " ch ^o 19 to 20	300	403.37		121,011
Do " " ch ^o 20 to 21	300	430.66		129,198
Do " " ch ^o 21 to 22	300	430.66		129,198
Do " " ch ^o 22 to 23	300	365.96		109,788
Do " " ch ^o 23 to 24	300	380.02		114,006

Enclosure No 2 in a
 letter from Mr. Chief
 Engineer Trimmally
 dated 13th December
 1873.

To
 The Chief Engineer for
 Irrigation & Land Revenue
 Trimmally.

CC 10/222/73.

Specification to
 accompany Estimate
 for Constructing a
 Tank at Melakulloor.

Mr. 6580/74
 10/1/74
 Mr. 711 203/74
 on 15.1.1878.

embankment from No 24 to 25	300	379.33	113,799
Do. No 25 to 26	300	259.22	77,766
Do. No 26 to 27	300	221.23	66,369
Do. No 27 to 28	300	226.66	67,998
Do. No 28 to 29	300	107.66	32,298
Do. No 29 to 30	100	11.66	1,166

Total earth cubic feet $2,433,464$
 Being equal to $90,128$.

Constructing a sluice.

Foundation to cistern and walls	$6\frac{1}{2}$	$6\frac{1}{2}$	$1\frac{1}{2}$	$63\frac{3}{8}$
Do. to Vent.	$70\frac{1}{2}$	3	$1\frac{1}{8}$	$237\frac{15}{16}$
Do. to Head walls & platform	$14\frac{3}{4}$	$9\frac{1}{2}$	2	$40\frac{1}{4}$
Wall for shutter	9	1	$1\frac{1}{2}$	$13\frac{1}{2}$
Parapet wall including Vent under it	9	$1\frac{1}{2}$	6	81
Sidewalls including Vent	71	3	$1\frac{1}{8}$	$399\frac{3}{8}$
Cistern walls with cistern	6	6	3	108
Rear Parapet	6	$1\frac{1}{8}$	$1\frac{1}{2}$	$10\frac{1}{8}$

Total Bricks in Churnam cft $1002\frac{9}{16}$

Deduction for Vent under Shutter Beam	1	$\frac{3}{4}$	1	$\frac{3}{4}$
for Vent under Parapet	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$13\frac{3}{4}$
for Vent	71	$\frac{3}{4}$	$\frac{3}{4}$	$39\frac{15}{16}$
to be made for cistern	$3\frac{3}{8}$	$3\frac{3}{8}$	3	$31\frac{1}{6}$
for Vents under cistern wall	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{27}{32}$
for 3 cistern orifices	$14\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{11}{16}$
for cistern as per details given below				$61\frac{1}{2}$

Total Deductions cubic feet $139\frac{7}{8}$

Remaining cubic feet 864
 Being equal to cubic yards 32

Covering Stone	74	$1\frac{1}{2}$	$\frac{1}{2}$	$55\frac{1}{2}$
Beam stone for Shutter	3	1	$\frac{1}{2}$	$1\frac{1}{2}$
Flooring on Platform	$2\frac{1}{2}$	2	$\frac{1}{2}$	$2\frac{1}{2}$
Do. in Vent	$2\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$
Total cut stone in Churnam cubic feet				$61\frac{1}{2}$
Being equal to cubic yards				$2\frac{1}{4}$

Plastering with 2 coats of Churnam.

Inside the Vent	73	$2\frac{1}{4}$		$46\frac{1}{4}$
Do. cistern walls	$13\frac{1}{2}$	3		$140\frac{1}{2}$
Do. bottoms of cistern	3	3		9
Outside of Vent	71	$6\frac{3}{4}$		$1479\frac{1}{4}$
Do. of cistern walls	21	3		63
Top of cistern walls	$13\frac{1}{2}$	$1\frac{1}{8}$		$15\frac{3}{16}$
Parapet wall in rear	6	$4\frac{1}{8}$		$24\frac{3}{4}$
Do. Do.	3	$1\frac{1}{8}$		$3\frac{3}{8}$
Head wall below the level of backing	6	$1\frac{7}{8}$		$11\frac{1}{4}$
Parapet in front	9	$10\frac{1}{8}$		$91\frac{1}{8}$
Do. on sides or faces	12	$1\frac{1}{2}$		18
Shutter wall top and sides	9	1		9
Top of Platform	$5\frac{1}{2}$	2		11

Total Plastering Square feet $939\frac{11}{16}$

Deduct for that portion under bank 50 $6\frac{3}{4}$ $337\frac{1}{2}$

Remaining Square feet $602\frac{3}{16}$

Being equal to Squares 6

Constructing a new

Body wall to the 1st Footing	78	$5\frac{1}{2}$	$\frac{3}{4}$	$321\frac{3}{4}$
Do. Do. Do.	79	$11\frac{1}{2}$	$1\frac{1}{4}$	$1510\frac{7}{8}$
Body wall above	80	3	3	720
Foundation to wings	55	$11\frac{1}{2}$	$\frac{3}{4}$	$185\frac{5}{8}$
1st Footing	55	$3\frac{1}{2}$	$1\frac{1}{4}$	$818\frac{1}{8}$
2nd Do.				

Superstructure to wings				
From rear of body to front return	21	2	$7\frac{1}{2}$	315
From rear of body to rear return	34	2	$6\frac{1}{2}$	1142
Total Rubble or Brick work cubic feet.				$4213\frac{3}{8}$

Deductions for Vents	$13\frac{1}{2}$	3	3	$121\frac{1}{2}$
Remaining cubic feet.				$4191\frac{7}{8}$
Being equal to cubic yards.				$156\frac{1}{4}$

Shutters	$13\frac{1}{2}$	$\frac{1}{3}$	$3\frac{1}{2}$	$15\frac{3}{4}$
Total wood cubic feet.				$15\frac{3}{4}$

Plastering with 2 coats of chunam.

Body wall.	80	9		720
Front wings from front of body	24		$10\frac{1}{2}$	252
Between front and rear wings	12		$7\frac{1}{2}$	90
Rear wings from rear of body	43		$9\frac{1}{2}$	1082
Top of wings	43	$1\frac{1}{2}$		$64\frac{1}{2}$
Sides of Vents	18	$\frac{1}{3}$		54

Total Plastering Square feet

Deduction for Vent in body	27	3		81
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Remaining Plastering Square feet

or in round number Sqrs

12 cross beams for Vents	66	$\frac{1}{2}$	$\frac{1}{3}$	11
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or but stone cubic yard

Apron.	86	12	$1\frac{1}{2}$	154.8
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Pitching on Sides	18	8	$1\frac{1}{2}$	216
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Total cubic feet.

Supply channel.	embankment	area	area				
From 1 to 2	150	13.04	1975	300	85.00	55500	21500
Do 2 to 3	300	62.53	18759		23.9	7170	18759
Do 3 to 4	300	54.51	16362		29.62	8886	16362
Do 4 to 5	300	64.09	19227		31.45	9425	19227
Do 5 to 6	300	65.12	19526		22.75	6816	19526

From 6 to 7	200	81.76	24528		21.8	6546	24528
Do 7 to 8	200	14.76	14768		20.7	9770	14768
Do 8 to 9	200	51.26	15368		21.59	6777	15368
Do towards Tank				150	25.5	3876	3876

Total actual quantity to be excavated in each cut.

Being equal to: of well and 2 Rock cutting yards				946
" Gravel and sand				698
" Red loam				606
" Red loam				712
" Sandy loam				721
" Sandy soil				908
" Sandy soil				720
" Sandy soil				571
" (Gravelly) soil with sand & lime for the hard				125

Amount of masonry required.

Foundation to body wall	54	10	3	708
Body in footing of side walls	1	1	$2\frac{1}{2}$	9
Foundation to wings and side walls	$118\frac{1}{2}$	$3\frac{1}{2}$	$3\frac{1}{2}$	$1217\frac{1}{2}$
Do	8	$2\frac{1}{2}$	$2\frac{1}{2}$	$271\frac{1}{2}$
Body wall above	60	2		260
Wings above and sides	$10\frac{1}{2}$	2		$115\frac{1}{2}$
Total cubic feet				$1961\frac{1}{2}$

Deduction for Vents

for position of caps stone on body	11	$\frac{1}{2}$	$\frac{1}{2}$	$23\frac{1}{2}$
for flooring allowed	12	11	$\frac{1}{2}$	26
Total Deduction cubic feet				$110\frac{1}{2}$
Remaining Rough structure chunam cubic feet				155
Being equal to cubic yards				$18\frac{1}{2}$

Cutstone.				
Flooring to Vents.	12	11	$\frac{3}{10}$	24
Cross Stones for Vents.	110	3	$\frac{1}{10}$	$6\frac{3}{10}$
Total cutstone cubic feet.				$112\frac{3}{10}$
Being equal to cubic yards.				$1\frac{1}{2}$

Plumbing to Vents, or Shutters.	20	1	$\frac{1}{2}$	$1\frac{1}{2}$
Do.	12	1	$\frac{1}{2}$	11
Total wood work cubic feet.				$10\frac{3}{10}$

Painting with Churnam.				
Body wall.	60	7		420
Wings.	53	5		265
Side walls.	6	11		66
Top of wings and Side walls.	53	12		79 $\frac{1}{2}$
For Sides of Vents.	21	2		42
Total Plastering Sq. feet.				886 $\frac{1}{2}$
Deduction for faces of Vents.	12	7		84
Remaining Sq. feet.				752
or Squares.				$7\frac{1}{2}$

Drop in Supply Churnam.				
Drop wall.	30	5	11	600
Do. above.	30	$2\frac{1}{2}$	2	125
Side or End walls.	20	$2\frac{1}{2}$	11	200
Total cubic feet.				925
Deduct for cutstone for crest.	16 $\frac{1}{2}$	$2\frac{3}{10}$	$\frac{1}{2}$	$7\frac{17}{10}$
Do. for cutstone casing side walls.	8	$\frac{1}{2}$	11	11
Total Deduction.				33 $\frac{7}{10}$
Remaining Bricks in Churnam cubic feet.				901 $\frac{9}{10}$
Being equal to cubic yards.				$33\frac{7}{10}$

Cutstone work as per above deduction.				$33\frac{7}{10}$
or cubic yards.				$1\frac{1}{10}$

Rough Stone Pitching.	24	2	$5\frac{1}{2}$	2611
Being equal to cubic yards.				$9\frac{3}{10}$

Plastering:				
Drop wall in rear.	20	.	6	120
Side walls above.	110	.	4	440
Top of side walls.	20	2	.	140
Total Square feet.				320
Plastering Square.				$3\frac{1}{2}$

District Engineer Office
 1st December 1890

Mr. Randall
 District Engineer

Public Works Deptt
 Proceedings of the Madras Government
 Read the following
 From the Chief Engineer
 for work - (To be kept 818 & 9"
 Oct 1874)

3194

The estimate
 amounting to Ru.
 pces 11,000 for the
 construction of a
 tank near Melakallur in the
 Pinnerelly District
 for the irrigation
 of 230 acres of
 land is sanctioned
 for entry in the
 budget of 1875-76.

2. It is observed
 that the expected
 return from this
 small project
 is

Md
 24/11/74

Enclosure 101 in a letter
 from the District Engineer
 Pinnerelly No 1166 dated
 13th Dec 1874.

To
 The Chief Engineer for
 Irrigation & Forest
 Secretary to Govt. G.O.

CC 9/2221/32.
 No. 711 dated 2/7/74
 for No 10178.
 Odde's statement for
 construction of tank
 at Melakallur.

Supd 10500 ..

Mr 6580/74.
 9/11/74.

is estimated at from
8 to $11\frac{1}{2}$ per cent.

Wm. 9/10/74
Gover

8

34

To
The D. R. Turnevell.
-- Cont. May Ph. deep
-- Chp. 10 ^{with Mr. E. J. Smith} for Mr.
A. Copier, deep 2 17/11/74.

178-179.
Recd 25/10/74.
Gen 24/10/74.

to Lakshmi

~~6583~~

Govt. of 1874 Madras.

PUBLIC WORKS.

To

*Mr. Dr. Ingr.
Tinnivelly*

Dated

Recd.

Encl. 12

G. O. *11th Nov.* No. *3194*

Nos. *178-179.*

Jan. 6 Estimate
amounting to Rs. 11,000
for the construction of a
Tank near Melakallur
in the Tinnivelly dist.
sanctioned for entry in
the Budget of 1875/76.