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# MADRAS RECORD OFFICE.

Government of Madras.

*Public works* DEPARTMENT.

|                       |                          |
|-----------------------|--------------------------|
| G.O. No. 3902         | Press<br><del>Mis.</del> |
| 164-165               |                          |
| Dated 11 - 12 - 1866. |                          |

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,  
11th December 1866.*

No. 164. Read the following letter from the Superintending Engineer, 6th Division, to the Secretary to Government, Public Works Department, dated Tanjore, 22nd November 1866, No. 1,004:—

1. I have the honor to forward, for approval and entry in the Budget of 1867-68, an estimate of Rupees 30,500 for the Nundyaar Anicut extension project, comprising the construction of an anicut across the Coolyaar river, building the necessary sluices, and extending the irrigating channels to the eastward for the improvement of the water supply to 1,321 acres of land yielding a revenue of Rupees 4,730 yearly, and to admit of 1,008 acres of land, assessable at Rs. 3,715, being taken up and cultivated in the Trichinopoly and Wodiarpolliem Taluqs.

2. In the year 1857-58 the anicut across the Nundyaar, A in plan, and the head sluice were constructed, and channels to the eastward were excavated on the estimate of Rupees 31,800, sanctioned in Government Orders dated 26th January 1855, and 4th March 1856.

3. The total expenditure on this project was Rupees 46,850.

The gross income to the end of 1865-66 is ... Rupees 44,782 9 0

The charges for maintenance to the end of  
1865-66 are ... Rupees 4,866 14 0

Interest on capital at 4 per cent. „ 14,992 0 0

19,858 14 0

Leaving a balance of income for eight years of Rupees 24,923 11 0 or Rupees 3,115-7-0 per annum, or an average net income of 6½ per cent. nearly. The actual income derived from the work has therefore been 10½ per cent. nearly on the sum laid out.

4. The large extent of land shown in the survey as proposed to be brought under irrigation, is nearly on the same level as the land cultivated, but it is left waste or cultivated only with dry grain in consequence of the insufficiency of the water supply, and the want of branch channels.

5. There is no lack of water, as the Coolyaar river brings down the surplus water of the lands watered by the Peruvallay and Iyen channels, which have their heads in the Cauvery at the upper anicut, about 25 miles above the site of the proposed anicut, but much water now runs to waste into the Coleroon in consequence of the delay on the part of the villagers in sending coolies to re-construct the Corumboo across the mouth of the Coolyaar, where it is now proposed to construct a permanent masonry dam.

6. The section given to the Coolyaar anicut is similar to that across the adjoining river, the Nundyaar, where the anicut built in 1857-58 has answered well.

7. Foundations for bridge piers are provided in the estimate, as it is proposed to construct a bridge over the anicut when money is available from Local Funds; the road from Trichinopoly up to the Coolyaar is now in progress, and will be completed shortly.

8. The maximum discharge of the Coolyaar in high freshes is 937,372 cubic yards per hour, and the minimum from June to January 4,050 cubic yards per hour. The two large reservoirs, viz., the Veragalur and Condroydittem tanks,

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will hold 601,520 cubic yards and 2,366,933 cubic yards respectively, and will be capable of being filled six times during the cultivating season, as a rule, and will receive sufficient water to irrigate 3,680 acres, or say 3,000, allowing for wastage.

9. The return from the work now proposed will be Rupees 3,715 per annum, or 12½ per cent. nearly, on the capital of Rupees 30,500, while the supply of water to the lands taken up since the construction of the Nundyaur anicut will be much improved, and a more constant supply will be ensured for the Veragalar and Condroydittem tanks. The works carried out in 1857-58, as is shown above, have returned a net income of 6½ per cent. or 10½ per cent. on the capital after deducting the cost of maintenance, which amounted to but little more than 1½ per cent. per annum. Even doubling the charge for maintenance, the new project would give a return equal to that on the original project, but as the part of the country in which the cultivation is to be extended is sparsely inhabited, it is probable that the whole of the land will not be taken up in one year, and the return from the work for a few years may not amount to that estimated. It must be remembered that a gross return of 12 per cent. on a work represents probably about half the return to the villagers, so even if the work returns only a net income of 6 per cent. to Government, it really returns nearly 30 per cent. on the outlay made.

10. The estimate provides for the following works:—

- Anicut across the Coolyaur regulating sluice in the main channel.
- Do. in the channel supplying the Veragalar tank.
- Clearing a portion of the main channel.
- Constructing ten head-sluices.
- Ten branch channels of supply.
- Constructing two surplus sluices.
- Do. seven road tunnels at points where the channels cross the road.

11. The survey and levels were taken by Mr. J. Brosnahan, Assistant Engineer, who devoted much time and labor to the work, and the report for the most part has been compiled from information obtained by the late Executive Engineer, Captain Palmer, the anticipated returns from the work having been checked with reference to the recent Revenue Settlement.

No. 165.

ORDER THEREON, 11th December 1866, No. 3,902.

CIVIL WORKS, No. 31.

1. With this letter the Superintending Engineer of the 6th Division submits an estimate of Rupees 30,500 for the Nundyaur Anicut extension project in the Trichinopoly District. That anicut was constructed in 1857-58 to carry a branch of the Coolyaur across the Nundyaur into a channel irrigating lands in the Trichinopoly and Wediarpolliem Taluqs. The present proposal is for the erection of a dam across the Coolyaur to divert more of its water into its abovementioned branch, and thereby to increase the supply of water to the channel under the Nundyaur Anicut, and further, for the extension of the channel below the anicut and for the provision of the requisite sluices.

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2. From paragraph 2 the Government observe that the returns derived from the anicut and channels for eight years ending 1865-66 give an average of 10½ per cent. or 6½ per cent. after deducting charges for maintenance and interest on the capital laid out.

3. It appears that much water now runs to waste into the Coleroon through the Coolyaur in consequence of delays on the part of the villagers to re-construct the Corumboo across the mouth of that river where it is now proposed to erect a permanent masonry dam. Owing to the want of this permanent dam, as well as of branch channels, a large extent of land has been left either waste or cultivated only with dry grain. The proposed extensions will, it is expected, return a revenue of Rupees 3,715 per annum, or a little more than 12 per cent. on the estimated outlay, while the supply of water to the lands taken up since the construction of the Nundyaur Anicut will be much improved and a more constant supply ensured to two large reservoirs.

4. The Government being satisfied that the proposed works will be remunerative, sanction the estimate submitted for them, but, as no provision can be made for them in the outgoing Budget, the Superintending Engineer will bring them forward in the succeeding Budget.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,  
Secretary to Government.

To the Superintending Engineer, 6th Division,  
With two Surveys, one Section of Levels, and one Specification.

- .. Controller of Public Works Accounts.
- .. Accountant General.

Exd. S. T. Augustin.

and Wediarpolliem Taluqs.

No 1004

Supt Engrs Office 6<sup>th</sup> Div<sup>n</sup>  
Panama  
22<sup>nd</sup> November 1866

From

Captain R. F. Oakes R.E.  
Supt Engrs 6<sup>th</sup> Division.

To

Colonel C. A. Orr R.E.  
Secy to Govt P. M. O.  
Fort Saint George.

Sir

I have the honor to forward for approval and entry in the Budget of 1867/8, an Estimate of Rs 30500 for the Mundayan Amnicut Excavation Project, comprising the construction of an Amnicut across the Coobayan river building the necessary sluices and extending the irrigating channels to the Eastward for the improvement of the water supply to 1321 acres of land yielding a Revenue of Rs 4730 yearly and to admit of 1008 acres of land aforesaid at Rs 3/5 being taken up and cultivated in the Trichinopoly and Wodiarpollum Taluqs.

2 In the year 1857/8, the  
Ammicut across the Nundyaur  
in Plan, and the Head Sluice  
were constructed and channels  
to the Eastward were excavated  
on the Estimate of Rs. 31300, sanc-  
tioned by Government Orders dated  
26<sup>th</sup> January 1855, and 1<sup>st</sup> March 1856.  
3 The total expenditure  
on this Project was Rs. 16850.  
The gross income to the end  
of 1865/66 is Rs. 11,752. 9

The charges for main-  
tenance to the end  
of 1865/66 are Rs. 11866. 11/2  
Interest on Ca-  
pital at 4 per Cent 11,992. -

Leaving a Balance of Income of 21,923. 11  
or Rs. 3115. 7 per annum, or an ave-  
rage net income of 6 2/3 per cent  
nearly. - The actual income  
derived from the water has there-  
fore been 10 2/3 per cent nearly  
on the sum laid out.

4 The large extent of land  
shewn in the Survey as proposed  
to be brought under irrigation  
is nearly on the same line C

as the land cultivated, but it  
is left waste or cultivated only  
with dry grain in consequence of  
the insufficiency of the water  
supply, and the want of branch  
channels. -

5 There is no lack of  
water as the Cooyaur river brings  
down the surplus water of the  
lands watered by the Peruvallay  
and Agan channels which have  
their Heads in the Canvey at the  
Upper Amnicut about 25 miles  
above the site of the proposed  
Amnicut, but much water now  
runs to waste into the Coleroon  
in consequence of the delay on  
the part of the Villagers in send-  
ing Coolies to reconstruct the  
Coramboo across the mouth of  
the Cooyaur where it is now  
proposed to construct a per-  
manent masonry dam. -

6 The section given to  
the Cooyaur Amnicut is similar  
to that across the adjoining  
river the Nundyaur where the  
Amnicut built in 1857/58 has  
answered well. -

7 Foundations for Bridge

piers are provided in the Estimate as it is proposed to construct a bridge over the Amicut when money is available from Local Funds. The Road from Spichinapally up to the Cooyan is now in progress and will be complete shortly. The maximum discharge of the Cooyan in high freshes is 937372 cys per hour and the minimum from June to January 4050 cys per hour. The two large Reservoirs viz the Veragalar & Condroydittem tanks will hold 601520 cys and 2366933 cys respectively and will be capable of being filled five times during the Cultivating Season as a rule & will receive sufficient water to irrigate 3680 Acres, or say 3000, allowing for wastage.

9. The return from the work now proposed will be Rs 3715 per annum or 12½ per cent nearly on the Capital of Rs 30000. While the supply of water to the

the lands taken up since the construction of the Amicut will be much improved and a more constant supply will be secured for the Veragalar & Condroydittem Tanks. The works carried out in 1857/58, as is shown above, have returned a net Income of 6½ per cent or 10½ per cent on the Capital after deducting the cost of maintenance which amounted to but little more than 1¼ per cent per annum. Even doubling the charge for maintenance the new Project would give a return equal to that on the original Project, but as the part of the Country in which the cultivation is to be extended is sparsely inhabited it is probable that the whole of the land will not be taken up in one year & the return from the work for a few years may not amount to that estimated. It must be remembered that a gross return of 12 per cent on a work

represents probably, about  $\frac{1}{2}$  the return to the villagers so even if the work returns only a net income of 6 per Cent to Government it really returns nearly 30 per Cent on the outlay made.

10. The Estimate provided for the following works.

Amicut across the Coolyour Regulating sluice in the main ch.

Do in the Channel supplying the Veragalur Tank.

- Clearing a portion of the main channel.

- Constructing 10 Head Sluices.

- 15m branch channels of supply.

- Constructing 2 Surplus Sluices.

- Constructing 7 Road Drains at points where the channels cross the road.

11. The Survey & Levels were taken by Mr. J. Brosnahan Assistant Engineer who devoted much time & labor to the work & the Report for the most part, has been compiled

from information obtained by the late Executive Engineer Capt. Palmer, the anticipated returns from the work having been checked with reference to the recent Revenue Settlement.

### Enclosures.

- 1 Survey of land to be watered by the Extension Project.
- 2 Enlarged Surveys of lengths of Kandyour and Coolyour.
- 3 Longitudinal Section of levels from the Coolyour river to Condroyd's Tank.
- 4 Plan of proposed Amicut.
- 5 Plans of masonry works.
- 6 Abstract Estimate & Specification.

I have the honor to be  
Sir  
Your Most Obedt. Servant

J. F. Bates Capt. R. E.  
Superintending Engr. 6<sup>th</sup> Div.

| Quantity                                                                                                         | Description of Work                             | Rate | Amount     | Amount of each part |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------|------------|---------------------|
| <u>Constructing Anicut across the</u><br><u>Cooyar River</u>                                                     |                                                 |      |            |                     |
| 59157 <sup>5</sup> / <sub>8</sub>                                                                                | Cft of Brick in Chunam per Cft. ———             | 2    | 7393 15 3  |                     |
| 1766 9 <sup>8</sup> / <sub>8</sub>                                                                               | Do. of Cut stone in Chunam Do. ———              | 1    | 1766 10    |                     |
| 9680                                                                                                             | Splft of Plastering per Sq <sup>rs</sup> ———    | 2    | 1939 7     |                     |
| 58                                                                                                               | Cft of Teak wood wrought and put up per cft ——— | 4    | 232        |                     |
|                                                                                                                  | Excavating foundation ———                       |      | 600        |                     |
|                                                                                                                  | Baling ———                                      |      | 1200       |                     |
|                                                                                                                  | Temporary Embankments and Channels              |      | 1000       |                     |
|                                                                                                                  |                                                 |      | 12386 2 10 |                     |
|                                                                                                                  | Sundries and Contingencies ———                  |      | 613 13 2   | 13000               |
| <u>2</u>                                                                                                         |                                                 |      |            |                     |
| <u>Removing Earth and Rock in the</u><br><u>Main Channel</u>                                                     |                                                 |      |            |                     |
| 10854                                                                                                            | Cy <sup>rs</sup> of Earth work ———              | 9    | 208 12 6   |                     |
| 346                                                                                                              | Do. Removing Rock ———                           | 1    | 346        |                     |
|                                                                                                                  |                                                 |      | 854 12 6   |                     |
|                                                                                                                  | Sundries and Contingencies ———                  |      | 48 3 6     | 903                 |
| <u>3</u>                                                                                                         |                                                 |      |            |                     |
| <u>Constructing a Regulating Sluice</u><br><u>across the Main Channel near</u><br><u>Veragalar Tank. No. 20.</u> |                                                 |      |            |                     |
| 4889 <sup>7</sup> / <sub>16</sub>                                                                                | Cft of Brick work in mortar at ———              | 2    | 611 2 10   |                     |
| 1547                                                                                                             | Splft of Plastering with one coat ———           | 2    | 30 15      |                     |
|                                                                                                                  | of Chunam per square ———                        | 1    | 56 4       |                     |
| 56 <sup>1</sup> / <sub>4</sub>                                                                                   | Cft of Cut Stone Beams per Cft. ———             | 1    |            |                     |
|                                                                                                                  | Carried forward                                 |      | 698 5 10   | 13903               |

|                                     |   |                |
|-------------------------------------|---|----------------|
| Brought over                        |   | 698 5 10 13903 |
| 19 Cft Teak wood wrought and put up | 4 | 76             |
| Excavation                          |   | 50             |
| Baling                              |   | 150            |
| Scaffolding                         |   | 15             |
|                                     |   | 989 5 10       |
| Sundries and Contingencies          |   | 50 10 2 1040   |

4  
Constructing a Regulating Sluice  
in the Head of the Supplying Channel  
of the Veragalur Tank No. 21

|                                                                                |   |           |
|--------------------------------------------------------------------------------|---|-----------|
| 3542 $\frac{5}{8}$ Cft Brick work in Mortar per Cft                            | 2 | 442 13 3  |
| 1162 $\frac{3}{4}$ Suplfct of Plastering with one coat<br>of chunam per square | 2 | 23 4 1    |
| 35 $\frac{3}{4}$ Cft of Cut stone Beams Cft                                    | 1 | 35 12     |
| 9 12 Cft Teak wood wrought and put up                                          | 4 | 38        |
| Excavating and filling                                                         |   | 35        |
| Baling and Embankment                                                          |   | 100       |
| Scaffolding                                                                    |   | 10        |
|                                                                                |   | 684 13 4  |
| Sundries and Contingencies                                                     |   | 35 28 720 |

5  
Constructing a Head Sluice  
in the Proposed New Channel  
for Thimacorum, Veragalur  
and Alampandy No. 19

|                                                        |   |          |
|--------------------------------------------------------|---|----------|
| 3550 $\frac{5}{8}$ Cft of Brick work in Mortar per cft | 2 | 443 13 3 |
|--------------------------------------------------------|---|----------|

Carried forward

443 13 3 15663

|                                                           |   |                |
|-----------------------------------------------------------|---|----------------|
| Brought over                                              |   | 443 13 3 15663 |
| 13 12 Cft of Cut Stone at                                 | 1 | 13 8           |
| 1200 Suplfct Plastering with one coat<br>of chunam per sq | 2 | 24             |
| 9 3/4 Cft of Teak wood wrought and<br>put up              | 4 | 39             |
| Excavating and filling                                    |   | 25             |
| Baling                                                    |   | 30             |
| Scaffolding                                               |   | 10             |
|                                                           |   | 585 5 3        |
| Sundries and Contingencies                                |   | 29 10 9        |
|                                                           |   | 615            |

35969 $\frac{65}{216}$  Earth work. Excavating  
Channel No. 10 from Head  
Sluice No. 9 for the Supply of  
Thimacorum, Veragalur  
and Alampandy Villages

Sundries and Contingencies

|      |        |
|------|--------|
| 9    | 1686 1 |
|      | 83 15  |
| 1770 | 2385   |

6  
Constructing a Head Sluice  
for the Supply of Nuthem  
Shembigoody, Puducottah  
and Colamanikem Villages  
No. 12

|                                                        |   |       |
|--------------------------------------------------------|---|-------|
| 2536 1/2 Cft of Brick work in mortar per Cft           | 2 | 317 1 |
| 1000 Suplfct Plastering with one coat of chunam per sq | 2 | 20    |

Carried forward

337 1 18048

|                                            |   |       |       |
|--------------------------------------------|---|-------|-------|
| Brought over                               |   | 337 1 | 18048 |
| 5 1/2 Cft. of Teak wood wrought and put up | 4 | 22    |       |
| 10 1/2 Do. of Cut Stones                   | 1 | 10 8  |       |
| Excavation and filling                     |   | 50    |       |
| Scaffolding                                |   | 15    |       |
|                                            |   | 484 9 |       |
| Sundries and Contingencies                 |   | 25 7  |       |

|                                        |   |       |      |
|----------------------------------------|---|-------|------|
| 1. One Sluice for Kuthem Village       |   | 460   |      |
| 12,9/16 1/2 Cys. of Excavating Channel | 9 | 605 7 |      |
| Sundries and Contingencies             |   | 29 9  |      |
|                                        |   | 635   | 1095 |

|                                           |  |     |  |
|-------------------------------------------|--|-----|--|
| 1 Sluice as above No. 12 for Shembiagoody |  | 460 |  |
|-------------------------------------------|--|-----|--|

|                                                   |  |     |  |
|---------------------------------------------------|--|-----|--|
| 1 Head Sluice as per Plan No. 12 for Kolamanickem |  | 460 |  |
|---------------------------------------------------|--|-----|--|

Constructing Tunnel across the New Channel on the Road leading to Tirumalavady.

|                                                                 |   |        |  |
|-----------------------------------------------------------------|---|--------|--|
| 89 3/4 Cft. of Brick work in Mortar per Cft.                    | 2 | 111 10 |  |
| 330 3/4 Suplt. of Plastering with one coat of chunam per square | 2 | 6 9 10 |  |
| Excavating and filling                                          |   | 15     |  |
| Sundries and Contingencies                                      |   | 6 12 2 |  |

Carried forward

1140

600 20203

|                                                  |   |          |       |
|--------------------------------------------------|---|----------|-------|
| Brought over                                     |   | 600      | 20203 |
| 816 7/11 Cys. of Excavating New Channel per Cys. | 9 | 382 13 5 |       |
| Sundries and Contingencies                       |   | 19 2 7   |       |
|                                                  |   | 402      | 1002  |

Road Tunnel as per Plan No. 18.

|                                                      |   |          |     |
|------------------------------------------------------|---|----------|-----|
| 1010 6 1/2 Cys. of Excavating Channel No. 8 per Cys. | 9 | 473 11 8 |     |
| Sundries and Contingencies                           |   | 23 4 4   |     |
|                                                      |   | 497      | 637 |

|                                                       |   |         |     |
|-------------------------------------------------------|---|---------|-----|
| 1 Road Tunnel as per Plan No. 18                      |   | 140     |     |
| 16 220 7/8 Cys. of Excavating No. 5 & 6 Cys. per Cys. | 9 | 760 5 7 |     |
| Sundries and Contingencies                            |   | 39 10 8 |     |
|                                                       |   | 800     | 940 |

Constructing a Sluice in the South end of the Androzdittam Tank for the Supply of Tirumalavady and Androzdittam Villages No. 13.

|                                                            |   |         |  |
|------------------------------------------------------------|---|---------|--|
| 353 38 5/8 Cft. of Brick work in Mortar per Cft.           | 2 | 442 5 3 |  |
| 10 1/2 Cft. of Cut stone Beams                             | 1 | 10 8    |  |
| 6 1/4 Do. of Teak wood shutters                            | 4 | 25      |  |
| 105 1/2 Suplt. of Plastering with 1 coat of chunam per sq. | 2 | 21 2 5  |  |
| Excavating and filling                                     |   | 50      |  |
| Baling and Embankment                                      |   | 50      |  |
| Scaffolding                                                |   | 10      |  |

Carried forward

608 15 8 22182

Brought over  
Sundries and Contingencies

608 15 8 22182 ..  
31 . 4  
640 ..

Constructing a Regulating  
Sluice for the Supply of  
Tirumalavady and Condroy-  
dittem Channels marked  
No. 15 in the Plan.

1554 1/2 Cft of Brick work in Mortar per Cft. 2 .. 194 4 6  
614 Suplft of Plastering with one coat  
of chunam per Square 2 .. 12 4 6  
Excavation 7 ..  
Sundries and Contingencies 213 9 ..  
10 7 ..  
224 ..

4 Road Tunnels as per Plan No. 18 each 140 .. 560 ..

3009 1/2 Cys of Excavating No. 1 Channel per Cys. 9 1410 8 7  
Sundries and Contingencies 69 7 5  
1480 .. 2904 ..

Constructing a Sluice across  
the Proposed New Channel  
for the Supply of Condroydittem  
Village No. 17

1572 1/2 Cft of Brick in Mortar per Cft. 2 .. 196 8 3  
690 1/2 Suplft of Plastering per Sqre 2 .. 13 13 ..  
10 1/2 Cft of Cut Stone Beams per Cft. 1 .. 10 8 ..  
55 8 Ds of Teak wood Shutters Ds 4 .. 22 8 ..

Carried forward

243 5 3 25186 ..

Brought over  
Excavation and filling  
Baling and Embankment.

243 5 3 25186 ..  
10 ..  
10 ..  
263 5 3

Sundries and Contingencies

13 10 9  
277 ..

11205 Cys of Excavating No. 4 Channel per Cys. 9 525 3 9  
Sundries and Contingencies 24 12 3  
550 .. 827 ..

Constructing a Sluice in the  
North end of Condroydittem  
Tank for the Supply of Ara-  
manacoovichi Palayapady  
No. 16

4135 2/5 Cft of Brick work in Mortar per Cft. 2 .. 523 3 6  
20 7/6 Ds of Cut Stone Beams 1 .. 20 7 6  
143 1/4 Ds of Teak wood wrought and put up 4 .. 59 ..  
1762 3/8 Suplft of Plastering per Square 2 .. 35 4 ..  
Excavation and filling 30 ..  
Baling and Embankment 50 ..  
Scaffolding 7 ..  
724 14 6

Sundries and Contingencies

35 1 6  
760 ..

224 11 1/4 Cys of Excavating Nos 2 & 3  
and Channels  
Sundries and Contingencies

9 1050 10 8  
49 5 4  
1100 .. 1860 ..

Carried forward

2777 3 ..

Brought over

27773

Constructing a Surplus sluice  
near Aramanacoorchi and  
Alambady No. 11

|                    |                                                                     |   |      |    |      |
|--------------------|---------------------------------------------------------------------|---|------|----|------|
| 6485 $\frac{1}{2}$ | Cft. Brick in chunam per Cft.                                       | 2 | 810  | 10 | 8    |
| 1670               | Suppl of Plastering with one<br>coat of chunam per Sq <sup>ft</sup> | 2 | 33   | 6  | 5    |
| 54                 | Cft of Cut Stone Beams                                              | 1 | 54   |    |      |
| 20 $\frac{1}{4}$   | D <sup>r</sup> Teak wood wrought & put up                           | 4 | 81   |    |      |
|                    | Excavation and filling                                              |   | 100  |    |      |
|                    | Baling and Embankments                                              |   | 200  |    |      |
|                    | Scaffolding                                                         |   | 20   |    |      |
|                    |                                                                     |   | 1299 | 1  | 1    |
|                    | Sundries and Contingencies                                          |   | 64   | 6  | 11   |
|                    | Total for one                                                       |   | 1363 | 8  |      |
|                    | Total for 2 Sluices                                                 |   |      |    | 2727 |

Total Estimate Rupees 30500

Trichinopoly Ex. Engrs Office  
Trichinopoly 24 Oct<sup>r</sup> 1863.

(Signed) W. C. Palmer Capt<sup>r</sup>  
Executive Engineer Trichinopoly

(Signed) R. J. Walhouse  
Acting Collector

See Bank  
call.

(Signed) F. A. K. Captain R. B.  
Superintending Engineer 6<sup>th</sup> Division

Supp Engrs Office B D<sup>r</sup>  
Bangalore 22 November 1866.

Public Works Department  
No 3902  
Proceedings of the Madras Government  
Under date the 11<sup>th</sup> Dec<sup>r</sup> 1866

Read the following  
From The Superintending Engineer  
of the 6<sup>th</sup> Division (H.E. No 1004 dated 22 Nov<sup>r</sup> 1866)

With this letter the Super-  
intending Engineer of the  
6<sup>th</sup> Div submits an estimate  
of Rs. 30,500 for the Kundyar  
Ancient extension project in  
the Trichinopoly District.  
That Ancient was constructed  
in 1857/8 to carry a branch  
of the Cooyan across the  
Kundyar into a Channel  
irrigating lands in the  
Trichinopoly & Goddarpollan  
Talooks. The present proposal  
is for the erection of a Dam  
across the Cooyan to divert  
more of its water into its

above-mentioned branch, and  
thereby to increase the supply  
of water to the Channel  
under the Kandyar Anicut,  
and further for the extension  
of the Channel below the  
Anicut and for the provision  
of the requisite sluices.

From Para. 2 the  
Government observe that the  
Returns derived from the  
Anicut and Channels for  
eight years ending 1865/6 give  
an average of  $10\frac{1}{2}\%$  per cent,  
or  $6\frac{1}{2}\%$  per cent after deduct-  
ing charges for maintenance  
and interest on the Capital  
laid out.

It appears that  
much water now runs to  
waste into the Coleroon through  
the Colyars in consequence  
of delays on the part of,

23  
the Villagers to reconstruct  
the Columns across the  
mouth of that river where  
it is now proposed to erect  
a permanent masonry dam  
owing to the want of this  
permanent dam as well as  
of branch Channels, a  
large extent of land has  
been left either waste or cul-  
tivated only with dry grain.  
The proposed extensions will,  
it is expected, return a  
revenue of Rs 3715 per  
annum, or a little more  
than 12 per cent on the  
estimated outlay, while  
the supply of water to the  
lands taken up since the  
construction of the Kandyar  
Anicut will be much  
improved and a more constan-

Supply wanted to two large  
reservoirs.

The Government  
being satisfied that the proposed  
works will be remunerative,  
sanction the estimate sub-  
mitted for them, but as  
no provision can be made  
for them in the outgoing  
Budget, the Supg. Engr will  
bring them forward in the  
succeeding Budget.

W.B.

P. W. 1866 Rept  
Pro. of Govt for Beer

no 3902  
Pro of Govt of Madras  
Dated 11<sup>th</sup> Dec 1866

one section of limestone specification

A 104-105

2. 30th Nov 1866 R. S. Madras 1866

The Engr 6 Dr into two columns  
" Controller  
" Acct General  
Sept 12 - December

23  
P.W. 1866 & Dy. 1867  
Copy sent for Decr/86

A 3902  
Pr. 7/1/86 Madras Govt

27 Decr/86.

The estimate of Rs.  
30,000 for Nandyaur Ancient  
Project in the Trichinopoly  
Dist. sanctioned and the Dy.  
Buzge instructed to bring the  
works forward for m. in  
the Budget for 1868/69.