# Public Works (1898) Department.

1

G.O., No. 752 I

DATED 30 Sep '98

1/10/98

[Despatch Abstract.]

Kalingarayan Channel

Estimate of Rs 17,900 for resluicing the ——— from the 1st to the 15th Mile, Sanctioned with remarks; ~~[illegible]~~ for the work and certain transfers of funds ordered.

4 sheets

11/6

P.G.I.
1.10.98

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செப்பனிடுபவர் பெயர்

அ. ஞானசேகரன்

செப்பனிடுவதற்காக எடுத்துக்
கொள்ளப்பட்ட நாள் 12/98

செப்பனிட்டு முடித்த நாள் 3/99

1/99

சரிபார்க்கும்
மு.வ.எ.
கையொப்பம்

ஆராய்ச்சி
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IRRIGATION.
ACCOUNT.

# Government (1898) of Madras.
## PUBLIC WORKS.

| Recd. | 1898. | Enclosures |
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**G.O., No. 752 I., 30th September 1898.**

**SEPTEMBER.**

**Kalingaroyen Channel**

Estimate of Rs. 17,900 for re-sluicing the — from the 1st to the 15th mile, sanctioned, with remarks; and certain transfer of funds, ordered.

## GOVERNMENT OF MADRAS.

## PUBLIC WORKS DEPARTMENT.

### Irrigation.
### Account.

Read—the following papers :—

From A. H. GARRETT, Esq., Superintending Engineer, IV Circle, to the Chief Engineer for Irrigation, dated camp, Yercaud, 19th August 1898, No. 189/I.

With reference to G.O., No. 219 I., dated 3rd March 1897, I have the honour to forward herewith plan and estimate amounting to Rs. 14,500 for re-sluicing the Kalingaroyen channel from 1st to 15th mile, with necessary re-sluicing statements.

2. The work proposed to be carried out is similar to that which has been done on other channels in the Coimbatore district with marked success, and as I have allowed it to proceed in anticipation of sanction at the urgent request of the Executive Engineer, I beg that sanction may not be delayed.

3. The estimate for re-sluicing the remaining length of the channel will be submitted in due course, and if there should be any difficulty in providing funds for the estimate now submitted, I would suggest a transfer from Tank Restoration Scheme grants in North Arcot and Salem divisions.

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### Enclosures.

Report to accompany the Estimate for re-sluicing the Kalingaroyen channel head to 15 miles.

| | RS. |
|---|---|
| Amount of estimate ... ... ... ... ... ... ... | 14,500 |

The estimate has been prepared with reference to G.O., No. 219 I., dated 3rd March 1897, and on the lines of the estimate sanctioned in G.O., No. 182 I. of 19th February 1896, for re-sluicing the Thadapalli channel.

2. The existing masonry sluices in addition to their being too big for the ayacut under them having been in almost all cases purposely built leaky by the ryots with loose boulders of rough stone under the foundations and on the sides, impartial regulation of the sluices is an impossibility. Hence it is very essential to have as much of the channel re-sluiced as possible. But as under the present financial conditions there seems to be no likelihood of large grants being allotted for this work, and as the channel will eventually be regraded and improved, in which case many of the pipe-sluices will have to be altered, and the designs for the sluices are made as simple and less expensive as possible. The masonry works are limited to cisterns and the pipes to be simply laid in the ground with one foot puddle all round without any masonry at their heads. Out of the estimated amount (Rs. 14,500) even in case all the sluices are to be altered, the loss will only be Rs. 14,500 — 6,540 = Rs. 7,960 = Rs. 530 per mile, which, when compared with the advantages, is only a trifling amount.

3. The existing sluices are 344 in number and it is proposed to replace them with 140 pipe sluices [counting 7 (*a*) and 7 (*b*) as two sluices]. For lands about or above O.W.L. separate sluices have been provided, as in dry years these will require baling and as it is unfair to put other lands whose levels will allow a free irrigation by gravitation to suffer the same inconvenience by combining them with high lands. In grouping combination of high and low lands has been avoided as far as possible. The area commanded by the channel being a long and very narrow strip of land, further diminution in number will require long side channels and will be detrimental to the proper distribution of water to the fields. Out of the 140 pipe-sluices 94 need have no cisterns, but for the remaining 46 as in each case three or more old sluices or combined cisterns in rear are provided. Shutters for the seven large sluices, Nos. 39, 46, 47, 59, 73, 107 and 123 may be put up later on if found absolutely necessary.

4. As the lands to be irrigated are light, sandy and porous as the ground slopes rapidly towards the river which will tend to drain off the water sooner than when the fields are flat, and as under 85 per cent. of the new sluices the areas are very small, a duty of 30 acres per cubic feet per second is allowed.

5. In fixing the sill levels of new sluices the highest land level under each old sluice has been considered. In cases of very high lands which have no head of water when the channel is at the O.W.L., the sill levels have been lowered to 1$\frac{1}{2}$ feet below the O.W.L. allowing depth for baling in rear of sluices. In all the other cases the sills have only been lowered from 6" to 9" below the highest land level. In no case the sill is fixed below the average bed levels of the channel which have been reduced from the water levels, as it induces scour and drains off an unfair amount of supply when the water level is low. It was first thought advisable to so fix the sill levels of vents in cisterns that the high and the low lands under each sluice may be supplied at one and the same time; but considering that, when the lands are irrigated by turns with a low water level in the channel, it will be very hard on the ryot owning the low level land to see his lands suffer with high lands, it is proposed to have the sill levels of vents in cisterns at sills of pipes. The ryots will, in course of time, learn to raise when necessary the sills of vents of cisterns temporarily with clay and irrigate high and low lands together.

6. It is practically impossible to make the size of the vents in the cisterns exactly commensurate with the area under each vent, and the simplest plan is to make all the vents of equal width, as the greatest diameter of pipes used is 10"; a 9" square vent ought to be enough to discharge the whole quantity without loss of head if the velocity of approach of the discharged volume is not obstructed by any other cause. Also, as in a vent from the bottom of cistern to top of wall, anything over 9 inches will be difficult to close with clay. Three 9-inch vents for each cistern have been allowed. This dimension of vents was tried in the Thadapalli channel where, in general, the ayacuts under each sluice are comparatively many times over those under the sluices of the Kalingaroyen channel and found efficient.

7. In calculating the dimensions of pipes the head available for each sluice has been arrived at by deducting the level of the highest lands under each sluice from the O.W.L. and then deducting 3 inches from the result for the depth of water in the high level fields.

In cases of sluices without cisterns the head available will also be the effective head for discharge, whereas in those with cisterns in rear there will be some loss of head due to the cisterns. (This is explained in the calculation sheet attached.) The loss becomes enormous when the available head is small and also when the acreage to be irrigated is large. For instance if 120 acres are to be irrigated with one foot head, a 15$\frac{1}{4}$-inch pipe will be necessary if there is cistern in rear, but when there is no cistern a 11$\frac{1}{2}$-inch pipe is enough and the sectional area of the former pipe is 1$\frac{3}{4}$ times as big as the latter. When all these are considered the calculation becomes laborious, but with the graphic curves attached the results have been obtained with much facility.

For the very high lands referred to in paragraph 5 as there is no head to base the calculation on, a little liberal allowance of 10 acres per 2 square inch of pipe has been made. The main item in the estimate is the cast iron pipes, and when they are ready the remaining work can be done in no time. As so much difficulty in the management and regulation of the channel has been experienced year after year, it is not at all desirable to postpone the work any further and materials will be collected as per Superintending Engineer's instructions in anticipation of sanction and the work completed before the next irrigation season.

Estimate for the remaining length of the channel will be submitted in due course.

## List of sluices in the Kalingaroyen channel showing position, &c., of new sluices proposed.

Note.—Crest of Kalingaroyen anicut .. .. .. 541·00
Sill of head sluice .. .. .. .. 532·92
Number of vents of sluice .. .. .. 6 × 4½' × 5⅚'
Sill of scouring sluice .. .. .. .. 530·37
Number of vents of sluice .. .. .. 3 × 6' × 6' (from sill to crown of arch).
No. 1 Gauge at head sluice R.L. of zero point 532·92.
No. 1 Masonry bridge at head sluice.
1½ furlongs 176 feet, No. 2 do. of two arches (Erode-Bhavani road).

| New serial number. | Old serial number. | Mileage. | | | Acreage. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluices. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice | Description of old sluices. | Length in feet of old sluice. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Miles. | Furlongs. | Feet. | Acres. | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | *Ananaswampolliem village.* | | | | | | | | | | | |
| 1 | 1 | .. | 2½ | 44 | 3·82 | 535·39 | 539·89 | .. | .. | 537·74 | 537·00 | 536·22 | ·58 | ·15 | 535·22 | FEET.<br>27 | Pipe. | Masonry .. .. | 2 | INCH.<br>3 | 532·60 | A |
| .. | .. | .. | 4 | 110 | | | | | | No. 1 outlet (sand sluice) vent 3½' × 3' sill level 531·18. | | | | | | | | | | | | |
| 2 | 2 | .. | 6¼ | 3 | 3·1 | 532·76 | 539·28 | 535·01 | 534·79 | 535·34 | 536·95 | 536·86 | *Nil.* | .. | 535·86 | 27 | Pipe. | Masonry .. .. | 3 | 3 | 532·40 | A |
| 3 | 3 | .. | 7 | 302 | 2·46 | 532·70 | 539·00 | 535·43 | 535·28 | 537·36 | 536·44 | 534·52 | 1·72 | 0·82 | 534·00 | 27 | Pipe. | Do. .. .. | 7 | 3 | 532·30 | A |
| 4 | 4 | 1 | .. | 130 | 3·4 | 532·30 | 538·80 | 534·98 | 534·24 | 537·12 | 536·82 | 536·71 | *Nil.* | .. | 535·71 | 27 | Pipe. | Palmyrah tube .. .. | 7 | 3 | 532·30 | A |
| 5 | 5 | 1 | ½ | 149 | 7·39 | 533·11 | 538·76 | 534·51 | 534·32 | 535·76 | .. | 535·57 | ·44 | ·334 | 534·96 | 27 | Pipe | Rough stone .. .. | 8 | 4 | 532·20 | A |
| | 6 | 1 | ½ | 164 | 3·97 | 533·08 | 538·76 | 535·47 | 534·26 | 535·91 | 536·30 | 535·66 | | | | | | Masonry .. .. | 9 | | | |
| | | | | | 11·36 | | | | | | | | | | | | | | | | | |
| 6 | 7 | 1 | 2 | 265 | 3·76 | 533·87 | 538·43 | 533·86 | 533·64 | 534·94 | 536·28 | 534·98 | 1·10 | ·12 | 534·23 | 27 | Pipe. | Masonry Government sluice. | 12 | 3 | 532·15 | A |
| .. | .. | 1 | 2½ | 261 | | | | | | | | Vent 3½' × 3½' sill level 529·89. | | | | | | | | | | |
| 7 (*a*) | 8 | 1 | 4 | 165 | 5·45 | 533·41 | 538·21 | 535·09 | 534·80 | 535·18 | .. | 535·60 | *Nil.* | .. | .. | 27 | Pipe. | Masonry .. .. | 16 | 4 | .. | A7*a* |
| 7 (*b*) | 9 | 1 | 4 | 175 | 5·19 | 533·46 | 538·21 | 534·88 | 533·96 | 535·93 | 536·23 | 536·10 | | .. | 535·10 | 27 | Pipe | Palmyrah tube .. .. | 10 | 4 | 532·10 | A7*b* |
| | 10 | 1 | 4½ | 14 | 4·83 | 533·28 | 538·18 | 534·68 | 534·56 | 535·82 | .. | 535·95 | | | | | | Do. .. .. | 10 | | | |
| | | | | | 15·47 | | | | | | | | | | | | | | | | | |
| 8 | 11 | 1 | 4½ | 73 | 3·6 | 533·18 | 538·18 | 534·88 | 534·51 | 537·18 | 536·22 | 537·10 | *Nil.* | .. | 535·60 | 27 | Pipe. | Rough stone .. | 8 | 3 | 532·10 | A |
| .. | .. | 1 | 5½ | 102 | | | | | | | | No. 3 masonry bridge of 3 inches. | | | | | | | | | | |
| 9 | 12 | 1 | 6½ | 252 | 1·74 | 534·99 | 537·74 | 533·46 | .. | 534·44 | 535·89 | 534·12 | 1·57 | ·038 | 533·40 | 27 | Pipe. | Masonry .. .. | 24 | 3 | 531·70 | A |
| 10 | 13 | 2 | .. | 10 | 0·3 | 530·84 | 537·59 | 533·31 | 533·09 | [illegible] | 535·74 | 534·26 | 1·28 | Nearly *Nil.* | 533·50 | 27 | Pipe. | Do. .. .. | 13 | 3 | 531·40 | A |
| 11 | 14 | 2 | 1 | 10 | 2·24 | 532·26 | 537·36 | 534·58 | 534·42 | [illegible] | 535·61 | 534·98 | ·43 | ·151 | 534·00 | 27 | Pipe. | Palmyrah spout .. .. | 9 | 3 | 531·35 | A |

| New serial number. | Old serial number. | Miles. | Furlongs. | Feet. | Acres. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluices. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice | Description of old sluices. | Length in feet of old sluice. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| .. | .. | | 2½ | 200 | | | | | | Gauge No. 2 R.L. of zero point 531·03<br>No. 1 Masonry acqueduct. | | | | | | | | | | | | |
| 12 | 15 | 2 | 4½ | 81 | 4·72 | 531·31 | 536·61 | 533·61 | 533·35 | 534·17 | 535·10 | 534·43 | ·47 | ·315 | 535·74 | 27 | Pipe | Masonry .. .. | 10 | 4 | 530·90 | A |
| | 16 | 2 | 4½ | 292 | 3·97 | 531·39 | 535·54 | 532·26 | 532·01 | 534·08 | .. | 534·24 | | | | | | Do. .. .. .. | 20 | | | |
| | | | | | 8·69 | | | | | | | | | | | | | | | | | |
| 13 | 17 | 2 | 5½ | 48 | .. | 530·83 | 536·53 | .. | .. | 533·17 | .. | 533·10 | ·91 | ·17 | 533·00 | 27 | Pipe | Masonry locked up .. | 10 | 3. | 530·70 | A |
| | 18 | 2 | 5½ | 114 | 3·35 | 531·43 | 536·53 | 532·56 | 532·31 | 533·79 | 535·01 | 533·90 | | | | | | Masonry .. .. | 30 | | | |
| | 19 | 2 | 6 | 32 | 2·38 | 531·28 | 536·48 | 532·23<br>535·00 | 532·11 | 533·82 | .. | 533·16 | | | | | | Do. .. .. .. | 10 | | | |
| | | | | | 5·73 | | | | | | | | | | | | | | | | | |
| 14 | 20 | 2 | 6 | 278 | 2·58 | 530·05 | 536·45 | 531·85 | 531·65 | 532·62 | 534·92 | 534·44 | [illegible] | ·155 | 533·69 | 27 | Pipe | Masonry .. .. | 16 | 3 | 530·30 | A |
| | 21 | 2 | 6½ | 150 | .. | 531·65 | 536·35 | 531·60 | 531·41 | 533·23 | .. | 533·04 | | | | | | Do. .. .. .. | 20 | | | |
| | | | | | 2·58 | | | | | | | | | | | | | | | | | |
| .. | .. | 2 | 7 | 10 | | | | | | | No. 1 under tunnel. | | | | | | | | | | | |
| 15 | 22 | 2 | 7½ | 75 | 3·58 | 529·68 | 536·28 | 532·73 | 532·58 | 532·95 | 534·76 | 532·32 | 2·21 | ·10 | 531·82 | 27 | Pipe. | Masonry .. .. | 13 | 3 | 530·00 | A |
| 16 | 23 | 3 | ½ | 154 | 4·80 | 531·07 | 535·97 | 532·22 | 532·17 | 532·74 | 534·41 | 533·08 | 1·13 | ·215 | 532·58 | 27 | Pipe | Masonry Government sluice. | 12 | 3 | 529·80 | A |
| | 24 | 3 | 1 | 27 | 2·10 | 530·32 | 335·97 | 532·88 | 532·61 | 532·98 | .. | 532·88 | | | | | | Cocoanut spout .. .. | 8 | | | |
| | | | | | 6·90 | | | | | | | | | | | | | | | | | |
| 17 | 25 | 3 | 2 | 325 | 0·51 | 530·48 | 535·68 | 534·81 | 534·69 | 534·96 | 534·10 | 534·75 | *Nil.* | .. | 533·30 | 27 | Pipe. | Cocoanut spout .. .. | 9 | 3 | 529·50 | A |
| 18 | 26 | 3 | 2½ | 320 | 4·0 | 529·12 | [illegible] | 532·69 | 532·31 | 533·66 | 534·04 | 533·91 | *Nil.* | .. | 532·66 | 27 | Pipe. | Do. .. .. | 11 | 3 | 529·50 | A |
| .. | .. | 3 | 3 | 260 | | | | | | | No. 4 Masonry Bridge of 3 vents. | | | | | | | | | | | |
| 19 | 27 | 3 | 3½ | 200 | 9·93 | 530·93 | 535·28 | .. | .. | 533·01 | 533·68 | 533·25 | ·23 | ·46 | 532·75 | 27 | Pipe | Masonry Government sluice. | 12 | 3 | 529·45 | A |
| | 28 | 3 | 4 | 235 | 529·94 | 529·94 | 535·24 | 532·76 | 532·67 | 532·78 | .. | 532·80 | | | | | | Cocoanut spout .. .. | 9 | | | |
| | | .. | .. | .. | 12·61 | | | | | | | | | | | | | | | | | |
| 20 | 29 | 3 | 5 | 60 | 3·74 | 529·46 | 535·24 | 531·97 | 531·85 | 534·27 | 533·63 | 534·24 | *Nil.* | .. | 533·00 | 27 | Pipe. | Masonry Government sluice. | 12 | 3 | 529·40 | A |
| 21 | 30 | 3 | 5 | 197 | 2·78 | 528·34 | 535·24 | 531·36 | 531·27 | 531·73 | 533·63 | 532·06 | 1·37 | ·22 | 531·26 | 27 | Pipe | Masonry .. .. | 20 | 3 | 529·40 | A |
| | 31 | 3 | 6 | 25 | 5·91 | 530·21 | 535·01 | 530·13 | 530·02 | 530·90 | .. | 530·77 | | | | | | Masonry Government sluice. | 12 | | | |
| | | | | | 8·69 | | | | | | | | | | | | | | | | | |
| 22 | 32 | 3 | 6 | 265 | 2·81 | 529·91 | 535·01 | 531·35 | 531·24 | 532·23 | 533·48 | 532·18 | 1·16 | ·31 | 531·50 | 27 | Pipe | Masonry Government sluice | 12 | 4 | 529·20 | B |
| | 33 | 3 | 6½ | 10 | 5·41 | 530·51 | 534·91 | 531·18 | 531·00 | 532·21 | .. | 532·08 | | | | | | Masonry .. .. | 15 | | | |
| | 34 | 3 | 7 | 10 | 5·65 | 531·06 | 534·86 | 531·30 | 531·24 | 531·47 | .. | 531·49 | | | | | | Do. .. .. .. | 8 | | | |
| | | | | | 13·87 | | | | | | | | | | | | | | | | | |
| 23 | 35 | 3 | 7½ | 66 | 37·4 | 528·56 | 534·66 | 528·75 | 528·80 | 529·66 | .. | 528·49 | 1·65 | ·522 | 530·47 | 27 | Pipe | Masonry .. .. | 20 | 7 | 529·15 | A |
| | 36 | 4 | .. | 65 | 8·82 | 530·36 | 534·66 | 531·40 | 531·33 | 531·51 | 533·02 | 531·17 | | | | | | Masonry Government sluice. | 12 | | | |
| | | | | | 45·86 | | | | | | | | | | | | | | | | | |

List of sluices in the Kalingaroyan channel showing position, &c., of new sluices proposed—*cont.*

| New serial number. | Old serial number. | Mileage. | | | Acreage. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluices. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice. | Description of old sluices | Length in feet of old sluice. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Miles. | Furlongs. | Feet. | Acres. | | | | | | | | | | | FEET. | | | | INS. | | |
| *Ananaswampolliem village—cont.* | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 37<br>38 | 4<br>4 | ½<br>1 | 130<br>117 | 3·70<br>1·98 | 528·21<br>530·33 | 534·61<br>534·58 | 530·90<br>530·93 | 530·62<br>530·78 | 530·76<br>531·68 | ..<br>532·92 | 530·72<br>532·06 | ·66 | ·202 | 531·31 | 27 | Pipe | Masonry .. ..<br>Masonry Government sluice. | 16<br>12 | 3 | 529·10 | A |
| | | | | | 5·68 | | | | | | | | | | | | | | | | | |
| .. | .. | 4 | 2½ | 150 | | | | | | | | | No. 5 Masonry bridge of 4 arches. | | | | | | | | | |
| 25 | 39<br>40 | 4<br>4 | 3<br>3½ | 37<br>245 | 3·25<br>6·45 | 529·71<br>528·54 | 534·21<br>534·09 | 529·58<br>530·04 | 529·44<br>529·91 | 531·36<br>531·79 | ..<br>532·39 | 531·02<br>531·84 | ·35 | ·35 | 531·10 | 27 | Pipe | Masonry Government sluice.<br>Do. do. | 12<br>12 | 5 | 528·60 | A |
| | | | | | 9·70 | | | | | | | | | | | | | | | | | |
| 26 | 41<br>42<br>43<br>44 | 4<br>4<br>4<br>4 | 5<br>5½<br>6<br>6 | 200<br>250<br>225<br>300 | 4·49<br>3·34<br>7·35<br>14·86 | 526·99<br>527·24<br>529·44<br>528·51 | 533·89<br>533·84<br>533·84<br>533·81 | 528·64<br>529·78<br>528·78<br>527·95 | 528·55<br>529·65<br>528·68<br>527·78 | 527·93<br>529·48<br>528·60<br>528·34 | ..<br>532·12<br>..<br>.. | 527·90<br>529·65<br>528·94<br>527·12 | 2·27 | ·42 | 528·65 | 27 | Pipe | Palmyrah spout .. ..<br>Masonry .. ..<br>Masonry Government sluice.<br>Masonry .. .. | 20<br>12<br>12<br>16 | 5 | 528·40 | B |
| | | | | | 30·4 | | | | | | | | | | | | | | | | | |
| 27 | 45<br>46<br>47 | 4<br>4<br>5 | 7<br>7½<br>.. | 50<br>80<br>228 | 17·22<br>13·66<br>10·16 | 526·74<br>528·57<br>528·30 | 533·64<br>533·62<br>533·55 | 530·37<br>529·65<br>527·20 | 530·24<br>529·75<br>526·33 | 530·44<br>528·45<br>527·73 | ..<br>531·88<br>.. | 530·32<br>527·12<br>526·58 | 3·63 | ·415 | 529·32 | 27 | Pipe | Palmyrah spout .. ..<br>Do. .. ..<br>Wooden pipe .. .. | 7<br>13<br>11 | 5 | 528·25 | B |
| | | | | | 41·4 | | | | | | | | | | | | | | | | | |
| 28 | 48<br>49<br>50 | 5<br>5<br>5 | ..<br>½<br>½ | 272<br>168<br>328 | 3·31<br>6·7<br>2·59 | 528·95<br>527·97<br>528·20 | 533·55<br>533·52<br>533·45 | 529·19<br>528·87<br>530·03 | 528·97<br>528·73<br>.. | 528·23<br>529·28<br>529·28 | ..<br>531·77<br>.. | 528·25<br>529·49<br>529·08 | 2·08 | ·25 | 528·74 | 27 | Pipe | Cocoanut spout .. ..<br>Mansory Government sluice.<br>Blocked up .. .. | 12<br>12<br>.. | 3 | 528·00 | B |
| | | | | | 11·97 | | | | | | | | | | | | | | | | | |
| .. | .. | 5 | 1 | 10 | | | | | | | | | No. 2 under-tunnel. | | | | | | | | | |
| 29 | 51<br>52 | 5<br>5 | 1½<br>1½ | 113<br>219 | 6·85<br>2·42 | 529·04<br>529·40 | 533·39<br>533·35 | ..<br>.. | ..<br>.. | 529·53<br>529·54 | 531·60<br>.. | 529·37<br>529·09 | 2·03 | ·19 | 528·87 | 27 | Pipe | Masonry .. ..<br>Do. .. .. | 20<br>15 | 3 | 527·90 | A |
| | | | | | 9·27 | | | | | | | | | | | | | | | | | |
| 30 | 53 | 5 | 2½ | 60 | 2·16 | 526·99 | 533·29 | .. | .. | 531·91 | 531·55 | 531·96 | *Nil.* | .. | 530·46 | 27 | Pipe. | Masonry Government sluice. | 12 | 3 | 527·85 | A |
| 31 | 54 | 5 | 3 | 40 | 11·41 | 528·01 | 533·16 | 528·99 | 528·82 | 528·72 | 531·40 | 527·39 | 3·55 | ·21 | 527·85 | 27 | Pipe. | Masonry Government sluice. | 12 | 3 | 527·85 | A. |
| 32 | 55 | 5 | 3 | 140 | 1·36 | 527·71 | 533·16 | .. | 528·87 | 531·17 | 531·42 | 532·12 | *Nil.* | .. | 530·12 | 27 | Pipe. | Masonry .. .. | 18 | | 527·84 | A. |
| *Sircar Peria Agraharam.* | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 56<br>57 | 5<br>5 | 3<br>3 | 150<br>195 | 7·2<br>0·54 | 527·56<br>527·21 | 533·16<br>533·11 | 529·68<br>531·07 | 529·60<br>530·87 | 531·11<br>531·17 | ..<br>531·36 | 530·77<br>531·27 | *Nil.* | .. | 530·77 | 27 | Pipe | Masonry .. ..<br>Palmyrah tube .. .. | 18<br>9 | 5 | 527·83 | A. |
| | | | | | 7·56 | | | | | | | | | | | | | | | | | |
| 34 | 58 | 5 | 3 | 273 | 13·25 | 527·75 | 533·10 | .. | 529·79 | 530·39 | 531·36 | 529·57 | 1·59 | ·285 | 528·82 | 27 | Pipe. | Masonry .. .. | 18 | 4 | 527·82 | A. |
| 35 | 59 | 5 | 4 | 225 | 3·6 | 528·12 | 533·07 | .. | 529·85 | 530·63 | 531·34 | 531·26 | *Nil.* | .. | 529·51 | 27 | Do. | Masonry Government sluice. | 12 | 3 | 527·75 | A. |
| .. | .. | 5 | 4½ | .. | .. | | | | | | | | No. 6 Masonry bridge of 4 vents. | | | | | | | | | |
| .. | .. | 5 | 4½ | 125 | .. | No. 3 Outlet—Number of vents 4 (5½′ × 5½′) sill level. | | | | | | | | .. | 527·11 | .. | .. | .... | .. | .. | .. | .. |
| 36 | 60<br>61 | 5<br>5 | 5<br>6 | 150<br>14 | 1·62<br>3·78 | 527·77<br>527·09 | 532·82<br>532·79 | 530·34<br>528·78 | 530·27<br>528·50 | 531·09<br>529·76 | 531·09<br>.. | 530·84<br>529·80 | *Nil.* | .. | 530·34 | 27 | Pipe | Masonry .. ..<br>Cutstone .. .. | 15<br>16 | 4 | 527·70 | A. |
| | | | | | 5·40 | | | | | | | | | | | | | | | | | |
| 37 | 62<br>63<br>64<br>65 | 5<br>5<br>5<br>5 | 6<br>6<br>6<br>6½ | 150<br>265<br>325<br>20 | 2·0<br>16·40<br>29·89<br>16·69 | 526·29<br>527·21<br>527·25<br>.. | 532·79<br>532·76<br>532·75<br>.. | 529·28<br>528·08<br>528·43<br>.. | 528·48<br>527·57<br>..<br>.. | 528·75<br>527·78<br>526·13<br>.. | 531·07<br>..<br>..<br>.. | 527·63<br>524·48<br>524·31<br>.. | 3·24 | ·52 | 527·40 | 27 | Pipe | Iron pipe .. ..<br>Masonry .. ..<br>Do. .. ..<br>Wooden tunnel blocked up. | 11<br>19<br>20<br>25 | 7 | 527·40 | B. |
| | | | | | 64·98 | | | | | | | | | | | | | | | | | |
| 38 | 66<br>67<br>68 | 5<br>5<br>5 | 7<br>7<br>7½ | 40<br>300<br>115 | 5·67<br>15·58<br>4·49 | 527·26<br>527·24<br>528·58 | 532·74<br>532·74<br>532·72 | ..<br>..<br>529·31 | ..<br>529·76<br>529·13 | 529·55<br>528·75<br>529·81 | ..<br>531·01<br>.. | 529·38<br>527·02<br>529·58 | 3·81 | ·325 | 528·83 | 27 | Pipe | Masonry .. ..<br>Masonry Government sluice.<br>Do. do. .. | 16<br>12<br>12 | 4 | 527·20 | B. |
| | | | | | 25·74 | | | | | | | | | | | | | | | | | |
| 39 | 69<br>70<br>71<br>72 | 6<br>6<br>6<br>6 | ..<br>..<br>½<br>½ | 15<br>70<br>190<br>260 | 20·53<br>5·54<br>13·91<br>49·38 | 529·49<br>528·56<br>528·08<br>527·91 | 532·53<br>532·51<br>532·48<br>532·46 | 529·56<br>..<br>529·64<br>529·51 | ..<br>525·89<br>..<br>.. | 527·57<br>528·14<br>528·92<br>529·14 | ..<br>..<br>530·78<br>.. | 527·51<br>528·04<br>528·77<br>528·88 | 1·91 | ·73 | 528·10 | 27 | Pipe | Masonry .. ..<br>Do. .. ..<br>Do. .. ..<br>Do. .. .. | 23<br>22<br>20<br>22 | 9 | 527·20 | B. |
| | | | | | 89·36 | | | | | | | | | | | | | | | | | |
| 40 | 73<br>74<br>75<br>76 | 6<br>6<br>6<br>6 | 1<br>1<br>1½<br>1½ | 130<br>340<br>33<br>150 | 15·34<br>14·62<br>2·76<br>3·40 | 529·48<br>528·56<br>528·08<br>527·91 | 532·53<br>532·51<br>532·48<br>532·46 | 529·56<br>..<br>529·64<br>529·51 | ..<br>525·89<br>..<br>.. | 527·57<br>528·14<br>528·92<br>529·14 | ..<br>..<br>530·78<br>.. | 527·51<br>528·04<br>528·77<br>528·88 | 1·81 | 47 | 528·13 | 27 | Pipe | Masonry Government sluice blocked up.<br>Cutstone .. ..<br>Do. .. ..<br>Pot sluice .. .. | 12<br>15<br>50<br>50 | 6 | 527·00 | B. |
| | | | | | 36·12 | | | | | | | | | | | | | | | | | |
| 41 | 77<br>78 | 6<br>6 | 1½<br>1½ | 210<br>220 | 7·17<br>5·75 | 528·01<br>528·01 | 532·41<br>532·40 | ..<br>530·01 | ..<br>.. | 529·96<br>529·84 | ..<br>530·70 | 529·85<br>530·04 | *Nil.* | .. | 529·64 | 27 | Pipe | Masonry .. ..<br>Pot sluice .. .. | 20<br>15 | 6 | 526·90 | A. |
| | | | | | 12·92 | | | | | | | | | | | | | | | | | |

List of sluices in the Kalingaroyan channel showing position, &c., of new sluices proposed—*cont.*

| New serial number. | Old serial number. | Mileage. | | | Acreage. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluice. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice. | Description of old sluices. | Length in feet of old sluices. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Miles. | Furlongs. | Feet. | Acres. | | | | | | | | | | | | | | | | | |
| *Sircar Periya Agraharam—cont.* | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | FEET. | | | | INS. | | |
| 42 | 79 | 6 | 2 | 200 | 3·87 | 527·91 | 532·31 | 529·00 | .. | 529·46 | 530·62 | 529·30 | 1·12 | ·245 | 528·60 | 27 | Pipe | Masonry .. .. | 20 | 3 | 526·85 | A |
| | 80 | 6 | 2½ | 50 | 4·95 | 527·10 | 532·30 | .. | 529·27 | 529·24 | .. | 529·17 | | | | | | Masonry Government sluice. | 12 | | | |
| | | | | | 8·82 | | | | | | | | | | | | | | | | | |
| 43 | 81 | 6 | 3 | 320 | 4·93 | 526·34 | 532·29 | .. | 527·31 | 528·41 | .. | 528·50 | ·93 | ·417 | 528·50 | 27 | Pipe | Masonry .. .. | 19 | 5 | 526·80 | B |
| | 82 | 6 | 3 | 80 | 6·53 | 525·53 | 532·28 | .. | 528·31 | 529·44 | .. | 529·43 | | | | | | Do. .. .. | 18 | | | |
| | 83 | 6 | 3 | 200 | 2·57 | 527·11 | 532·26 | .. | 528·25 | 528·98 | 530·58 | 528·95 | | | | | | Do. .. .. | 60 | | | |
| | 84 | 6 | 3 | 260 | 5·92 | 527·15 | 532·25 | .. | 530·76 | 529·74 | .. | 529·45 | | | | | | Pot sluice .. .. | 18 | | | |
| | | | | | 19·95 | | | | | | | | | | | | | | | | | |
| *Brahmana Periya Agraharam.* | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 85 | 6 | 3½ | 45 | 5·19 | 527·76 | 532·21 | .. | 529·52 | 529·33 | .. | 529·77 | ·55 | ·47 | 529·26 | 27 | Pipe | Masonry .. .. | 40 | 6 | 526·75 | B |
| | 86 | 6 | 3½ | 95 | 2·64 | 527·65 | 532·20 | 529·94 | .. | 530·36 | 530·51 | 529·76 | | | | | | Masonry Government sluice portion washed away .. | 12 | | | |
| | 87 | 6 | 4 | 15 | 8·77 | 529·88 | 532·13 | 529·93 | 529·24 | 529·37 | .. | 529·30 | | | | | | Masonry Government sluice. | 12 | | | |
| | | | | | 16·60 | | | | | | | | | | | | | | | | | |
| 45 | 88 | 6 | 4 | 27 | 8·19 | 528·63 | 532·13 | .. | 527·31 | 527·63 | .. | 526·19 | 1·48 | ·325 | 528·00 | 27 | Pipe | Masonry .. .. | 17 | 4 | 526·70 | A |
| | 89 | 6 | 4 | 63 | 9·2 | 527·36 | 532·11 | .. | 527·61 | 528·74 | 530·42 | 528·74 | | | | | | Do. .. .. | 28 | | | |
| | | | | | 17·21 | | | | | | | | | | | | | | | | | |
| 46 | 90 | 6 | 4½ | 250 | 31·44 | 527·78 | 532·08 | .. | .. | ... | .. | .. | 2·50 | ·635 | 527·45 | | Pipe | Masonry blocked up .. | 22 | 8 | 526·60 | B |
| | 91 | 6 | 4½ | 290 | 29·6 | 527·48 | 532·08 | .. | 524·90 | 528·76 | .. | 520·66 | | | | | | Masonry .. .. | 20 | | | |
| | 92 | 6 | 5 | 120 | 14·80 | 528·57 | 532·07 | 527·87 | 527·69 | 527·89 | 530·39 | 527·63 | | | | | | Masonry Government sluice. | 12 | | | |
| | 93 | 6 | 5½ | 90 | 7·87 | 528·45 | 532·05 | .. | 528·27 | 528·75 | .. | 528·20 | | | | | | Masonry .. .. | 16 | | | |
| | | | | | 83·17 | | | | | | | | | | | | | | | | | |
| 47 | 94 | 6 | 5½ | 200 | 6·88 | 527·70 | 532·05 | .. | 529·61 | 529·50 | 530·37 | 529·59 | ·58 | ·615 | 528·80 | 27 | Pipe | Masonry Government sluice. | 12 | 8 | 526·55 | B |
| | 95 | 6 | 6 | .. | 2·66 | 527·48 | 531·93 | .. | 528·47 | 529·62 | .. | 529·70 | | | | | | Masonry .. .. | 35 | | | |
| | 96 | 6 | 6 | 210 | 5·83 | 527·89 | 531·89 | .. | 528·16 | 529·21 | .. | 528·51 | | | | | | Do. .. .. | 17 | | | |
| | 97 | 6 | 6 | 245 | 7·89 | 527·89 | 531·89 | 528·15 | .. | 526·56 | .. | 526·64 | | | | | | Palmyrah spout .. | 40 | | | |
| | | | | | 26·32 | | | | | | | | | | | | | | | | | |
| 48 | 98 | 6 | 6¼ | 30 | 7·68 | 527·63 | 531·88 | .. | 528·88 | 528·11 | .. | 528·21 | ·84 | ·287 | 528·25 | 27 | Pipe. | Masonry Government sluice. | 30<br>12 | 4 | 526·50 | A |
| | 99 | 6 | 6½ | 180 | 2·94 | 527·78 | 531·88 | .. | 529·27 | 529·17 | 530·21 | 529·17 | | | | | | | | | | |
| | | | | | 10·62 | | | | | | | | | | | | | | | | | |
| 49 | 100 | 6 | 7 | 70 | 1·19 | 526·97 | 531·87 | .. | .. | 530·62 | 530·20 | 530·67 | *Nil.* | .. | 529·17 | 27 | Pipe. | Masonry Government sluice. | 12 | 3 | 526·50 | A |
| 50 | 101 | 6 | 7 | 213 | 9·13 | 526·96 | 531·86 | .. | 527·61 | 529·02 | .. | 528·11 | ·31 | ·345 | 528·93 | 27 | Pipe | Masonry .. .. | 18 | 4 | 526·50 | A |
| | 102 | 6 | 7 | 285 | 0·57 | 527·36 | 531·86 | 529·63 | .. | 529·63 | 530·19 | 529·68 | | | | | | Pot sluice .. .. | 20 | | | |
| | | | | | 9·70 | | | | | | | | | | | | | | | | | |
| 51 | 103 | 6 | 7½ | 183 | 0·86 | 527·86 | 531·86 | 529·06 | .. | 530·31 | 530·19 | 530·19 | *Nil.* | .. | 528·69 | 27 | Pipe. | Do. .. .. | 10 | 3 | 526·45 | A |
| .. | .. | 7 | .. | 125 | | | | | | | | | No. 3 under-tunnel. | | | | | | | | | |
| 52 | 104 | 7 | .. | 130 | 3·39 | 526·54 | 531·84 | 529·09 | .. | 529·16 | 530·18 | 529·46 | ·52 | ·33 | 528·71 | 27 | Pipe | Pot sluice .. .. | 15 | 4 | 526·40 | A |
| | 105 | 7 | 1 | .. | 6·60 | 526·78 | 531·78 | 528·96 | .. | 529·06 | .. | 529·33 | | | | | | Masonry Government sluice. | 12 | | | |
| | | | | | 9·89 | | | | | | | | | | | | | | | | | |
| 53 | 106 | 7 | 1 | 20 | 8·40 | 526·21 | 531·76 | .. | 527·09 | 527·61 | 530·11 | 524·79 | 3·71 | ·14 | 526·40 | 27 | Pipe. | Palmyrah spout .. .. | 22 | 3 | 526·40 | A |
| | .. | 7 | 1 | 242 | | | | | | | | | No. 4 tunnel. | | | | | | | | | |
| 54 | 107 | 7 | 1 | 286 | 8·29 | 526·44 | 531·74 | .. | 528·04 | 528·18 | .. | 527·72 | 1·77<br>526·34 | ·412 | 527·32 | 27 | Pipes | Masonry Government sluice. | 12 | 5 | 526·40 | B |
| | 108 | 7 | 1 | 310 | 4·92 | 526·34 | 531·74 | .. | 527·69 | 527·89 | 530·09 | 528·12 | | | | | | Masonry .. .. | 20 | | | |
| | .. | [illegible] | 1½ | .. | | | No. 8 gauge R. L. of zero point. | | | | | | | | | | | .... | .. | | | |
| | .. | [illegible] | 1½ | 85 | | | No. 7 Masonry bridge of 4 vents. | | | | | | | | | | | .... | .. | | | |
| | 109 | [illegible] | 1½ | 126 | 3·68 | 526·21 | 531·71 | .. | 528·15 | 528·53 | .. | 528·51 | | | | | | Masonry .. .. | 10 | | | |
| | 110 | [illegible] | [illegible] | 195 | 3·70 | 526·26 | 531·66 | 526·53 | 526·51 | 527·23 | .. | 527·41 | | | | | | Do. .. .. | 28 | | | |
| | 111 | [illegible] | [illegible] | 240 | 6·29 | 526·45 | 531·65 | .. | 527·18 | 527·65 | .. | 528·03 | | | | | | Do. .. .. | 18 | | | |
| | | | | | 26·88 | | | | | | | | | | | | | | | | | |
| *Dalavoypoliem.* | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 112 | [illegible] | 2 | 263 | 4·54 | 526·16 | 531·46 | .. | .. | 527·70 | .. | 527·58 | 1·23 | ·275 | 527·51 | 27 | Pipe | Pot sluice .. .. | 20 | 4 | 526·25 | B |
| | 113 | [illegible] | 2 | 313 | 4·78 | 526·01 | 531·41 | 527·88 | .. | 528·38 | .. | 528·32 | | | | | | Do. .. .. | 12 | | | |
| | 114 | [illegible] | 2½ | 272 | 2·43 | 526·49 | 531·89 | .. | 528·77 | 529·24 | 529·74 | 528·31 | | | | | | Masonry .. .. | 25 | | | |
| | | | | | 11·75 | | | | | | | | | | | | | | | | | |
| 56 | 115 | 7 | 3 | 53 | 2·13 | 526·26 | 531·36 | 528·27 | .. | 529·54 | 529·72 | 528·24 | ·26 | ·15 | 528·00 | 27 | Pipe. | Do. .. .. | 20 | 3 | 526·20 | A |
| 57 | 116 | 7 | 3½ | 325 | 2·26 | 526·15 | 531·35 | .. | 528·31 | 528·08 | 529·71 | 528·33 | 1·18 | ·21 | 527·63 | 27 | Pipe | Do. .. .. | 15 | 3 | 526·00 | A |
| | 117 | 7 | 4½ | 174 | 5·72 | 525·84 | 531·32 | 527·54 | 527·17 | 527·89 | .. | 526·49 | | | | | | Pot sluice .. .. | 20 | | | |
| | | | | | 7·98 | | | | | | | | | | | | | | | | | |
| 58 | 118 | 7 | 4½ | 254 | 8·55 | 525·71 | 531·31 | .. | 525·64 | 525·99 | .. | 520·51 | 3·17 | ·34 | 526·06 | 27 | Pipe | Masonry .. .. | 16 | 4 | 525·80 | B |
| | 119 | 7 | 5 | 123 | 9·6 | 525·21 | 531·31 | .. | 525·99 | 536·26 | 527·68 | 526·31 | | | | | | Masonry Government sluice. | 12 | | | |
| | 120 | 7 | 5½ | 5 | 8·83 | 525·14 | 531·29 | .. | 525·47 | 525·76 | .. | 525·80 | | | | | | Masonry .. .. | 20 | | | |
| | | | | | 25·94 | | | | | | | | | | | | | | | | | |

List of sluices in the Kalingaroyen channel showing position, &c., of new sluices proposed—*cont.*

| serial number. | Old serial number. | Mileage. | | | Acreage. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluices. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice. | Description of old sluices. | Length in feet of old sluice. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Miles. | Furlongs. | Feet. | Acres. | | | | | | | | | | | | | | | | | |
| *Dalavoypoliem*—cont. | | | | | | | | | | | | | | | | FEET. | | | | INCHES. | | |
| 59 | 121 | 7 | 5½ | 310 | .. | .. | .. | .. | .. | .. | .. | .. | 3·69 | ·675 | 525·50 | 27 | Pipe | Masonry blocked up | .. | 8 | 525·50 | B |
| | 122 | 7 | 6 | 57 | 61·74 | 525·69 | 531·24 | .. | 524·01 | 544·11 | .. | 516·84 | | | | | | Masonry | 20 | | | |
| | 123 | 7 | 6 | 82 | 28·70 | 526·54 | 531·14 | .. | 524·97 | 524·21 | .. | 519·76 | | | | | | Do. | 20 | | | |
| | 124 | 7 | 6 | 100 | 12·83 | 526·69 | 531·14 | .. | 525·84 | 524·21 | | | | | | | | Do. | 20 | | | |
| | 125 | 7 | 6 | 133 | 5·71 | 526·24 | 531·09 | .. | 525·34 | 525·69 | 529·46 | 526·57 | | | | | | Do. | 20 | | | |
| | | | | | 106·98 | | | | | | | | | | | | | | | | | .. |
| .. | .. | 7 | 6 | 256 | | | | | | | | | No. 5 under-tunnel. | | | | | | | | | |
| 60 | 126 | 7 | 6½ | 5 | 2·7 | 526·93 | 531·08 | .. | 528·22 | 527·27 | 529·45 | 527·20 | 2·05 | ·380 | 526·50 | 27 | Pipe | Masonry | 18 | 5 | 525·45 | B |
| | 127 | 7 | 6¾ | 132 | 10·47 | 526·23 | 531·08 | .. | 526·17 | 527·27 | .. | 526·82 | | | | | | Do. | 17 | | | |
| | 128 | 7 | 6¾ | 257 | 5·46 | 525·42 | 531·07 | 527·18 | 526·95 | 527·17 | .. | 526·10 | | | | | | Do. | 18 | | | |
| | 129 | 7 | 7 | 160 | 7·31 | 525·06 | 531·06 | .. | 525·65 | 525·67 | .. | 524·18 | | | | | | Do. | 18 | | | |
| | | | | | 25·31 | | | | | | | | | | | | | | | | | |
| 61 | 130 | 7 | 7 | 327 | 3·25 | 525·25 | 530·95 | .. | 527·62 | 528·31 | 529·33 | 528·53 | ·60 | ·155 | 527·25 | 27 | Pipe. | Masonry Government sluice. | 12 | 3 | 525·25 | A |
| 62 | 131 | 7 | 7¼ | 137 | 25·75 | 524·44 | 530·94 | .. | 524·63 | 525·78 | .. | 521·43 | 4·04 | ·415 | 526·50 | 27 | Pipe | Masonry | 20 | 5 | 525·23 | B |
| | 132 | 7 | 7¼ | 160 | .. | 525·29 | 530·89 | .. | 525·83 | 525·98 | 529·27 | 518·95 | | | | | | Masonry blocked up | 14 | | | |
| | 133 | 7 | 7½ | 180 | 14·91 | 525·29 | 530·89 | .. | 526·33 | 525·92 | .. | 519·12 | | | | | | Masonry | 18 | | | |
| | | | | | 40·66 | | | | | | | | | | | | | | | | | .. |
| 63 | 134 | 7 | 7½ | 207 | 3·50 | 525·53 | 530·88 | .. | .. | 526·38 | .. | 520·53 | 2·38 | ·295 | 525·93 | 27 | Pipe | Masonry | 17 | 4 | 525·22 | B |
| | 135 | 7 | 7¾ | 278 | 8·5 | 525·67 | 530·87 | .. | 526·18 | 523·38 | 529·26 | 526·68 | | | | | | Do. | 20 | | | |
| | 136 | 7 | 7⅞ | 295 | 5·14 | 525·29 | 530·87 | .. | 526·03 | 526·28 | .. | 519·12 | | | | | | Do. | 20 | | | |
| | | | | | 17·9 | | | | | | | | | | | | | | | | | .. |
| 64 | 137 | 8 | .. | 141 | .. | 524·29 | 530·84 | .. | 528·13 | 528·90 | .. | 529·89 | *Nil.* | .. | 528·00 | 27 | Pipe | Masonry | 16 | 5 | 525·18 | A |
| | 138 | 8 | 1 | 34 | 8·52 | 525·28 | 530·78 | .. | 528·63 | 529·58 | 529·18 | 529·56 | | | | | | Do. | 18 | | | |
| | 139 | 8 | 1½ | 22 | .. | 524·57 | 530·67 | 528·38 | .. | 529·18 | .. | 529·11 | | | | | | Do. | 16 | | | |
| | | | | | 8·52 | | | | | | | | | | | | | | | | | |
| .. | .. | 8 | 1½ | 93 | | | | | | | | | No. 6 under-tunnel. | | | | | | | | | |
| 65 | 140 | 8 | 1½ | 110 | 2·70 | 525·08 | 530·63 | .. | 526·86 | 527·91 | 529·03 | 528·26 | ·77 | ·125 | 527·00 | 27 | Pipe. | Masonry | 18 | 3 | 525·05 | A |
| No. 4, outlet upper vents No. 8 (2½′ × 3′) sill level 528·95, lower vents No. 2, 3′ × 2½′ sill level 523·25 and 523·42, respectively. | | | | | | | | | | | | | | | | | | | | | | |
| .. | .. | 8 | 2½ | 60 | | | | | | | | | *Nil.* | .. | 527·44 | 27 | Pipe | Pot sluice | 15 | 5½ | .. | A |
| 66 | 141 | 8 | 3 | 176 | 2·3 | 525·05 | 530·55 | .. | 529·36 | 528·88 | .. | 528·67 | | | | | | Masonry | 18 | | | |
| | 142 | 8 | 3½ | 20 | 5·48 | 524·68 | 530·53 | 527·41 | .. | 528·85 | 528·94 | 528·79 | | | | | | | | | | |
| | | | | | 7·51 | | | | | | | | | | | | | | | | | |
| 67 | 143 | 8 | 4 | 92 | 6·36 | 524·96 | 530·46 | .. | 526·14 | 527·19 | 528·87 | 527·69 | ·98 | ·238 | 526·69 | 27 | Pipe | Masonry | 24 | 3 | 524·90 | A |
| | 144 | 8 | 4 | 128 | 2·53 | 524·90 | 530·45 | .. | 525·44 | 527·24 | .. | 526·45 | | | | | | Do. | 22 | | | |
| | | | | | 8·89 | | | | | | | | | | | | | | | | | |
| 68 | 145 | 8 | 4½ | 150 | 11·12 | 524·55 | 530·35 | 526·10 | 525·77 | 526·41 | .. | 528·22 | ·79 | ·458 | 526·74 | 27 | Pipe | Masonry | 21 | 6 | 524·65 | B |
| | 146 | 8 | 4½ | 190 | 1·67 | 524·08 | 530·33 | 526·72 | 526·37 | 527·57 | 528·71 | 527·72 | | | | | | Do. | 20 | | | |
| | 147 | 8 | 4½ | 268 | 1·99 | 524·74 | 530·26 | 527·00 | .. | 527·74 | .. | 527·49 | | | | | | Do. | 20 | | | |
| | 148 | 8 | 5 | 224 | 2·36 | 524·35 | 530·25 | 528·32 | .. | 528·76 | .. | 527·37 | | | | | | Do. | 21 | | | |
| | 149 | 8 | 5½ | 112 | 4·25 | 524·19 | 530·24 | 527·05 | .. | 527·38 | .. | 527·58 | | | | | | Do. | 19 | | | |
| | | | | | 21·39 | | | | | | | | | | | | | | .. | | | |
| 69 | 150 | 8 | 6½ | 202 | 3·21 | 524·69 | 530·19 | 526·96 | 526·78 | 527·61 | 528·62 | 527·31 | 1·11 | ·148 | 526·56 | 27 | Pipe | Masonry | 20 | 3 | 524·40 | A |
| | 151 | 8 | 7 | 248 | 1·58 | 524·33 | 530·18 | 526·85 | .. | 526·36 | .. | 526·55 | | | | | | Do. | 22 | | | |
| | | | | | 4·79 | | | | | | | | | | | | | | | | | |
| 70 | 152 | 8 | 7 | 280 | 11·36 | 523·91 | 530·16 | .. | 525·01 | 525·94 | .. | 523·23 | 1·61 | ·34 | 526·00 | 27 | Pipe | Masonry | 18 | 4 | 524·20 | B |
| | 153 | 8 | 7½ | 87 | 2·11 | 524·59 | 530·14 | 526·75 | .. | 526·76 | .. | 525·71 | | | | | | Do. | 18 | | | |
| | 154 | 8 | 7½ | 125 | 3·75 | 524·24 | 530·14 | 526·61 | .. | 526·12 | 528·57 | 526·76 | | | | | | Do. | 24 | | | |
| | 155 | 8 | 7¾ | 222 | 2·76 | 524·27 | 530·12 | .. | 524·98 | 525·36 | .. | 520·13 | | | | | | Do. | 17 | | | |
| | | | | | 19·98 | | | | | | | | | | | | | | | | | |
| 71 | 156 | 9 | .. | 53 | 3·7 | 524·54 | 530·04 | .. | 526·56 | 526·55 | 528·48 | 526·53 | 1·75 | ·272 | 526·00 | 27 | Pipe | Masonry | 23 | 4 | 524·10 | A |
| | 157 | 9 | .. | 155 | 9·25 | 524·12 | 530·02 | .. | 526·41 | 526·28 | .. | 526·35 | | | | | | Masonry Government sluice. | 12 | | | |
| | | | | | 12·32 | | | | | | | | | | | | | | | | | |
| 72 | 158 | 9 | .. | 285 | 4·52 | 523·99 | 529·89 | .. | 524·91 | 524·88 | 525·33 | 521·18 | 4·28 | ·345 | 525·40 | 27 | Pipe | Masonry | 14 | 4 | 524·05 | B |
| | 159 | 9 | ¼ | 77 | 5·24 | 524·52 | 529·87 | 525·47 | .. | 526·20 | .. | 526·12 | | | | | | Do. | 17 | | | |
| | 160 | 9 | ½ | 220 | 20·12 | 523·74 | 529·84 | .. | 524·16 | 524·24 | .. | 516·24 | | | | | | Do. | 23 | | | |
| | | | | | 29·88 | | | | | | | | | | | | | | | | | |
| *Vgyirapoliem.* | | | | | | | | | | | | | | | | | | | | | | |
| No. 8, masonry bridge of 4 vents. | | | | | | | | | | | | | | | | | | | | | | |
| .. | .. | 9 | ½ | 284 | | | | | | | | | 1·32 | ·62 | 526·00 | 27 | Pipe | Masonry | 23 | 8 | 523·90 | B |
| 73 | 161 | 9 | 1 | 150 | 26·99 | 525·37 | 529·82 | .. | 528·31 | 521·03 | .. | 516·12 | | | | | | Masonry Government sluice. | 12 | | | |
| | 162 | 9 | 1 | 290 | 3·82 | 523·92 | 529·82 | 525·86 | 525·78 | 526·15 | .. | 526·12 | | | | | | Masonry | 22 | | | |
| | 163 | 9 | 1 | 330 | 2·74 | 524·15 | 529·80 | .. | 525·67 | 526·19 | .. | 526·24 | | | | | | Do. | 24 | | | |
| | 164 | 9 | 1¼ | 78 | 1·62 | 524·46 | 529·76 | 525·54 | .. | 526·16 | .. | 526·11 | | | | | | Do. | 17 | | | |
| | 165 | 9 | 1¼ | 152 | 2·92 | 524·42 | 529·72 | 525·56 | .. | 526·62 | 528·17 | 526·65 | | | | | | Do. | 17 | | | |
| | 166 | 9 | 1¼ | 165 | 4·5 | 524·42 | 529·72 | 525·81 | .. | 526·27 | .. | 526·47 | | | | | | Do. | 16 | | | |
| | 167 | 9 | 1½ | 307 | 4·88 | 524·57 | 529·62 | .. | 525·52 | 525·98 | .. | 525·97 | | | | | | Do. | | | | |
| | | | | | 47·9 | | | | | | | | | | | | | | | | | |

List of sluices in the Kalingaroyen channel showing position, &c., of new sluices proposed—*cont.*

| New serial number. | Old serial number. | Mileage. | | | Acreage. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluices. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice. | Description of old sluices. | Length in feet of old sluice. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Miles. | Furlongs. | Feet. | Acres. | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | FEET. | | | | INCHES. | | |
| | | | | | | | | | | | *Vayirapoliem*—cont. | | | | | | | | | | | |
| 74 | 168 | 9 | 2 | 150 | 1·95 | 524·11 | 529·61 | .. | 525·95 | 525·72 | .. | 525·27 | 1·35 | ·492 | 525·72 | 27 | Pipe | Masonry Government sluice. | 12 | 6 | 523·85 | B |
| | 169 | 9 | 2 | 175 | 3·49 | 523·91 | 529·61 | .. | .. | .. | .. | .. | | | | | | Pot sluice not in use .. | 20 | | | |
| | 170 | 9 | 2 | 195 | 4·7 | 523·57 | 529·57 | 526·67 | 525·75 | 525·87 | 528·02 | 526·47 | | | | | | Masonry Government sluice. | 12 | | | |
| | 171 | 9 | 2½ | 30 | 23·93 | 524·05 | 529·55 | .. | 523·43 | 520·11 | .. | 514·03 | | | | | | Masonry .. .. | 20 | | | |
| | | | | | 33·44 | | | | | | | | | | | | | | | | | |
| 75 | 172 | 9 | 2½ | 146 | 2·67 | 523·75 | 529·55 | 525·26 | .. | 526·30 | .. | 525·53 | 2·10 | ·43 | 525·20 | 27 | Pipe | Masonry .. .. | 17 | 5 | 523·80 | B |
| | 173 | 9 | 2½ | 178 | 4·24 | 523·65 | 529·55 | 525·70 | .. | 525·98 | .. | 525·93 | | | | | | Do. .. .. | 19 | | | |
| | 174 | 9 | 2½ | 292 | 2·5 | 523·63 | 529·53 | 526·33 | 525·72 | 526·26 | 527·98 | 525·68 | | | | | | Do. .. .. | 21 | | | |
| | 175 | 9 | 2½ | 315 | 2·36 | 523·88 | 529·53 | 526·43 | .. | 526·33 | .. | 526·18 | | | | | | Do. .. .. | 24 | | | |
| | 176 | 9 | 3 | 15 | 5·86 | 523·70 | 529·50 | 526·57 | .. | 525·72 | .. | 524·30 | | | | | | Do. .. .. | 17 | | | |
| | 177 | 9 | 3 | 40 | 1·54 | 523·59 | 529·49 | .. | 524·77 | 524·30 | .. | 523·81 | | | | | | Do. .. .. | 15 | | | |
| | 178 | 9 | 3 | 75 | 13·1 | 523·74 | 529·49 | .. | 523·75 | 521·97 | .. | 514·84 | | | | | | Do. .. .. | 21 | | | |
| | | | | | 31·73 | | | | | | | | | | | | | | | | | |
| 76 | 179 | 9 | 3 | 165 | 27·98 | 523·93 | 529·48 | .. | 524·63 | 524·18 | .. | 515·10 | 4·12 | ·442 | 523·80 | 27 | Pipe | Masonry .. .. | 20 | 6 | 523·80 | B |
| | 180 | 9 | 3 | 195 | 3·82 | 523·87 | 529·47 | 524·82 | .. | 524·39 | 527·92 | 522·42 | | | | | | Do. .. .. | 25 | | | |
| | 181 | 9 | 3 | 254 | 14·7 | 523·96 | 529·46 | .. | 523·94 | 523·37 | .. | 521·04 | | | | | | Do. .. .. | 18 | | | |
| | | | | | 45·87 | | | | | | | | | | | | | | | | | |
| 77 | 182 | 9 | 3½ | 30 | 2·75 | 523·60 | 529·40 | 525·77 | .. | 526·67 | .. | 526·57 | ·91 | ·205 | 525·69 | 27 | Pipe | Masonry .. .. | 20 | 3 | 523·75 | B |
| | 183 | 9 | 3½ | 202 | 2·95 | 524·35 | 529·35 | 526·11 | 526·09 | 526·64 | 527·80 | 526·69 | | | | | | Do. .. .. | 18 | | | |
| | 184 | 9 | 4½ | 15 | 1·0 | 528·57 | 529·27 | 527·83 | .. | 526·44 | .. | 526·86 | | | | | | Do. .. .. | 14 | | | |
| | 185 | 9 | 5 | 13 | 0·65 | 525·23 | 529·13 | .. | .. | .. | .. | .. | | | | | | Do. not in use .. | 20 | | | |
| | | | | | 7·35 | | | | | | | | | | | | | | | | | |
| 78 | 186 | 9 | 5½ | 252 | 6·51 | 524·10 | 529·00 | .. | 525·50 | 526·36 | .. | 526·44 | ·59 | ·284 | 525·67 | 27 | Pipe | Masonry .. .. | 18 | 4 | 523·60 | A |
| | 187 | 9 | 5½ | 282 | .. | 523·30 | 529·00 | .. | 526·03 | 526·71 | 527·46 | 526·67 | | | | | | Do. .. .. | 20 | | | |
| | 188 | 9 | 6½ | 207 | 3·4 | 523·96 | 528·86 | .. | 525·49 | 526·35 | .. | 526·42 | | | | | | Do. .. .. | 21 | | | |
| | | | | | 9·55 | | | | | | | | | | | | | | | | | |
| 79 | 189 | 9 | 6½ | 212 | 4·61 | 524·05 | 528·85 | .. | 524·87 | 525·41 | .. | 525·64 | 1·19 | ·122 | 525·32 | 27 | Pipe | Masonry .. .. | 21 | 3 | 523·55 | A |
| | 190 | 9 | 6½ | 220 | 4·75 | 524·00 | 528·85 | .. | 525·11 | 525·52 | 527·31 | 525·92 | | | | | | Do. .. .. | 21 | | | |
| | | | | | 9·36 | | | | | | | | | | | | | | | | | |
| 80 | 191 | 9 | 6½ | 296 | 6·20 | 523·58 | 528·83 | .. | 526·82 | 527·09 | 527·29 | 526·24 | ·85 | ·175 | 525·20 | 27 | Pipe. | Masonry .. .. | 17 | 3 | 523·55 | A |
| 81 | 192 | 9 | 7 | 217 | 3·17 | 523·87 | 528·82 | .. | 526·33 | 526·04 | 527·28 | 525·84 | 1·24 | ·36 | 525·10 | 27 | Pipe | Masonry .. .. | 15 | 5 | 523·50 | B |
| | 193 | 9 | 7 | 230 | 3·86 | 523·92 | 528·82 | .. | 525·62 | 525·48 | .. | 525·39 | | | | | | Do. .. .. | 17 | | | |
| | 194 | 9 | 7½ | 57 | 1·39 | 523·79 | 528·79 | 526·12 | .. | 525·84 | .. | 525·19 | | | | | | Do. .. .. | 24 | | | |
| | 195 | 9 | 7¼ | 277 | .. | 523·88 | 528·78 | 526·09 | .. | 525·69 | .. | 525·40 | | | | | | Do. .. .. | 17 | | | |
| | 196 | 10 | .. | 45 | 9·62 | 523·53 | 528·68 | .. | .. | 525·44 | .. | 524·54 | | | | | | Do. .. .. | 15 | | | |
| | 197 | 10 | .. | 87 | 1·40 | 523·62 | 528·67 | .. | 524·24 | 523·69 | .. | 521·67 | | | | | | Do. .. .. | 15 | | | |
| | | | | | 19·44 | | | | | | | | | | | | | | | | | |
| 82 | 198 | 10 | .. | 170 | 2·43 | 523·75 | 528·65 | 523·84 | .. | 525·37 | .. | 525·50 | ·83 | ·075 | 525·24 | 27 | Pipe | Masonry .. .. | 20 | 3 | 523·40 | A |
| | 199 | 10 | ½ | 165 | .. | 522·18 | 528·48 | 526·09 | .. | 529·11 | 527·02 | 525·90 | | | | | | Do. .. .. | 20 | | | |
| | | | | | 2·43 | | | | | | | | | | | | | | | | | |
| .. | .. | 10 | ½ | 200 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | No. 7 under-tunnel. | | | | | | | | | | |
| 83 | 200 | 10 | 1 | 170 | 2·53 | 522·17 | 528·47 | 525·21 | .. | 525·88 | 527·01 | 525·82 | ·99 | ·072 | 522·00 | 27 | Pipe. | Masonry .. .. | 36 | 3 | 523·20 | A |
| 84 | 201 | 10 | 2½ | 38 | 0·66 | 523·02 | 528·12 | .. | 525·29 | 525·83 | 526·72 | 525·85 | ·67 | ·145 | 525·10 | 27 | Pipe | Masonry .. .. | 22 | 3 | 523·05 | A |
| | 202 | 10 | 2½ | 50 | 2·73 | 523·30 | 528·10 | 526·16 | .. | 525·71 | .. | 525·83 | | | | | | .... | .. | | | |
| | | | | | 3·39 | | | | | | | | | | | | | | | | | |
| 85 | 203 | 10 | 3 | 255 | 3·26 | 522·77 | 528·07 | 525·58 | 525·49 | 525·52 | 526·57 | 525·52 | ·85 | ·140 | 524·52 | 27 | Pipe. | Masonry Government sluice. | 12 | 3 | 522·95 | A |
| 86 | 204 | 10 | 3½ | 180 | 3·77 | 523·26 | 528·06 | 524·40 | .. | 523·15 | 526·56 | 520·94 | 3·66 | ·076 | 522·90 | 27 | Pipe. | Masonry .. .. | 20 | 3 | 522·90 | A |
| 87 | 205 | 10 | 3½ | 280 | 1·95 | 523·32 | 528·02 | 525·40 | .. | 525·65 | .. | 525·50 | 2·17 | ·10 | 523·60 | 27 | Pipe | Masonry .. .. | 24 | 3 | 522·90 | B |
| | 206 | 10 | 3½ | 310 | 2·22 | 523·31 | 528·01 | 524·33 | .. | 524·29 | 526·52 | 524·15 | | | | | | Do. .. .. | 23 | | | |
| | 207 | 10 | 4 | 38 | 1·72 | 523·89 | 528·01 | 524·90 | .. | 525·17 | .. | 525·28 | | | | | | Do. .. .. | 22 | | | |
| | | | | | 5·89 | | | | | | | | | | | | | | | | | |
| 88 | 208 | 10 | 4 | 180 | 9·94 | 523·77 | 528·01 | 523·99 | .. | 519·79 | 526·52 | 518·52 | 3·67 | ·215 | 522·85 | 27 | Pipe | Masonry .. .. | 28 | 3 | 522·85 | A |
| | 209 | 10 | 4 | 245 | 2·9 | 523·66 | 528·00 | 525·51 | 522·89 | 522·29 | .. | 517·83 | | | | | | Do. .. .. | 22 | | | |
| | | | | | 12·3 | | | | | | | | | | | | | | | | | |
| 89 | 210 | 10 | 4½ | 54 | 11·79 | 523·07 | 527·97 | 525·31 | 525·25 | 525·22 | 526·48 | 525·22 | 1·06 | ·263 | 524·22 | 27 | Pipe. | Masonry .. .. | 19 | 4 | 522·83 | A |
| 90 | 211 | 10 | 4½ | 303 | .. | 523·62 | 527·99 | .. | 525·07 | 523·39 | .. | 523·97 | 3·68 | ·193 | 524·12 | 27 | Pipe | Masonry .. .. | 22 | 3 | 522·80 | B |
| | 212 | 10 | 4½ | 311 | 4·38 | 523·07 | 527·97 | .. | 523·02 | 524·17 | 526·48 | 515·58 | | | | | | Do. .. .. | 22 | | | |
| | 213 | 10 | 5 | 135 | 1·21 | 522·88 | 527·88 | 524·72 | .. | 524·80 | .. | 524·87 | | | | | | Do. .. .. | 24 | | | |
| | 214 | 10 | 5 | 315 | 2·51 | 522·85 | 527·80 | .. | 525·15 | 524·64 | .. | 523·48 | | | | | | Do. .. .. | 11 | | | |
| | 215 | 10 | 5½ | 76 | 4·73 | 522·74 | 527·74 | .. | 523·73 | 523·73 | .. | 523·88 | | | | | | Do. .. .. | 25 | | | |
| | | | | | 12·83 | | | | | | | | | | | | | | | | | |
| 91 | 216 | 10 | 5½ | 160 | 9·89 | 523·23 | 527·73 | 524·27 | .. | 520·10 | 526·24 | 511·59 | 3·64 | ·37 | 522·60 | 27 | Pipe | Masonry .. .. | 38 | 5 | 522·60 | A |
| | 217 | 10 | 5½ | 209 | 23·75 | 522·72 | 527·72 | 523·68 | .. | 519·26 | .. | 512·47 | | | | | | .... | 30 | | | |
| | | | | | 33·64 | | | | | | | | | | | | | | | | | |

List of sluices in the Kalingaroyen channel showing position, &c., of new sluices proposed—*cont.*

| New serial number. | Old serial number. | Mileage. | | | Acreage. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluices. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice. | Description of old sluices. | Length in feet of old sluice. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Miles. | Furlongs. | Feet. | Acres. | | | | | | | | | | | | | | | | | |
| *Vayirapalem—cont.* | | | | | | | | | | | | | | | | FEET. | | | | INCHES. | | |
| 92 | 218 | 10 | 6 | 310 | 5·88 | 522·06 | 527·64 | 524·60 | 523·99 | 523·97 | .. | 524·13 | 1·49 | ·325 | 523·88 | 27 | Pipe | Masonry .. .. | 30 | 4 | 522·40 | B |
| | 219 | 10 | 6¾ | 100 | 3·57 | 522·71 | 527·62 | .. | 523·78 | 523·86 | .. | 523·94 | | | | | | Do. .. .. | 28 | | | |
| | 220 | 10 | 6½ | 234 | 3·85 | 522·89 | 527·62 | 524·72 | .. | 524·36 | 526·14 | 524·45 | | | | | | Do. .. .. | 27 | | | |
| | 221 | 10 | 7 | 64 | 3·94 | 522·59 | 527·59 | 524·76<br>526·11 | Plug hole. | 523·96 | .. | 523·88 | | | | | | Do. .. .. | 26 | | | |
| | | | | | 17·24 | | | | | | | | | | | | | | | | | |
| 93 | 222 | 10 | 7 | 295 | 5·48 | 522·44 | 527·54 | 525·16 | .. | 524·34 | .. | 524·53 | 2·66 | ·170 | 523·80 | 27 | Pipe | Masonry .. .. | 30 | 3 | 522·30 | B |
| | 223 | 10 | 7¼ | 152 | 1·14 | 522·64 | 527·44 | 523·46 | .. | 523·45 | 525·97 | 523·11 | | | | | | Do. .. .. | 21 | | | |
| | 224 | 10 | 7½ | 224 | 2·82 | 522·36 | 527·36 | 523·11 | .. | 522·21 | .. | 522·10 | | | | | | Do. .. .. | 28 | | | |
| | | | | | 9·44 | | | | | | | | | | | | | | | | | |
| 94 | 225 | 11 | | 66 | 9·88 | 523·17 | 527·27 | 524·49 | .. | 522·62 | 525·80 | 522·09 | 2·21 | ·35 | 522·64 | 27 | Pipe. | Masonry .. .. | 28 | 5 | 522·25 | B |
| | 226 | 11 | | 144 | 2·2 | 522·80 | 527·25 | 524·97 | .. | 523·37 | | 523·39 | | | | | | Do. .. .. | 27 | | | |
| | 227 | 11 | .. | 247 | 7·04 | 522·83 | 527·23 | 524·86 | .. | 524·25 | | 523·34 | | | | | | Do. .. .. | 31 | | | |
| | 228 | 11 | .. | 315 | 4·31 | 522·52 | 527·22 | 524·96 | 524·42 | 524·29 | | 510·40 | | | | | | Do. .. .. | 31 | | | |
| | | | | | 23·85 | | | | | | | | | | | | | | | | | |
| *Sircar Sinna Agraharam.* | | | | | | | | | | | | | | | | | | | | | | |
| .. | .. | 11 | [illegible] | .. | | No. 4 gauge R. L. of Zero point. | | | | | | | 523·54 | .. | .. | .. | .. | .... | .. | .. | .. | .. |
| .. | .. | 11 | [illegible] | 3¼ | | No. 9 masonry bridge of two arches. | | | | | | | | | | | | | | | | |
| 95 | 229 | 11 | [illegible] | 100 | 9·56 | 522·82 | 527·12 | 525·51 | .. | 520·82 | .. | 506·91 | 1·22 | ·475 | 523·61 | 27 | Pipe | Masonry .. .. | 20 | 6 | 522·20 | B |
| | 230 | 11 | [illegible] | 110 | .. | .. | .. | .. | .. | .. | .. | .. | | | | | | Blocked up .. .. | 30 | | | |
| | 231 | 11 | [illegible] | 214 | 2·6 | 523·07 | 527·12 | 525·05 | .. | 524·77 | .. | 524·36 | | | | | | Masonry .. .. | 18 | | | |
| | 232 | 11 | [illegible] | 330 | 3·55 | 522·77 | 527·07 | 523·97 | .. | 524·17 | .. | 524·32 | | | | | | Do. .. .. | 19 | | | |
| | 233 | 11 | 1 | 15 | 4·0 | 522·82 | 527·07 | 523·96 | .. | 524·57 | 525·64 | 524·22 | | | | | | Do. .. .. | 16 | | | |
| | 234 | 11 | 1 | 215 | 4·31 | 521·79 | 527·07 | .. | 524·58 | 524·73 | .. | 521·48 | | | | | | Do. .. .. | 15 | | | |
| | 235 | 11 | 1 | 305 | 4·30 | 522·62 | 527·07 | .. | 524·22 | 524·37 | .. | 522·78 | | | | | | Do. .. .. | 18 | | | |
| | | | | | 27·78 | | | | | | | | | | | | | | | | | |
| | 236 | 11 | 1¼ | 155 | 6·86 | 523·03 | 527·03 | 522·93 | .. | 523·43 | .. | 523·41 | | | | | | Masonry .. .. | 19 | | | |
| 96 | 237 | 11 | 1½ | 178 | 4·74 | 522·63 | 527·63 | 522·58 | .. | 523·08 | .. | 523·23 | 3·47 | ·352 | 523·20 | 27 | Pipe | Do. .. .. | 19 | 5 | 522·00 | B |
| | 238 | 11 | 1¾ | 310 | 1·82 | 522·38 | 526·98 | 522·26 | .. | 523·63 | .. | 523·93 | | | | | | Do. .. .. | 21 | | | |
| | 239 | 11 | 2 | 130 | 14·92 | 521·98 | 526·88 | 521·15 | .. | 521·18 | 525·47 | 515·65 | | | | | | Do. .. .. | 25 | | | |
| | 240 | 11 | 2 | 243 | 1·17 | 522·20 | 526·85 | 523·86 | .. | 523·10 | .. | 523·30 | | | | | | Do. .. .. | 28 | | | |
| | | | | | 28·51 | | | | | | | | | | | | | | | | | |
| .. | .. | 11 | 2 | 327 | | | | | | | | | No. 8 under-tunnel. | | | | | | | | | |
| 97 | 241 | 11 | 2½ | 283 | 1·93 | 521·85 | 526·60 | .. | 523·75 | 523·70 | 525·20 | 524·83 | 1·17 | ·038 | 523·00 | 27 | Pipe. | Roughstone blocked up .. | 18 | 3 | 521·90 | A |
| 98 | 242 | 11 | 3½ | 120 | 1·50 | 522·24 | 526·39 | 524·62 | .. | 523·21 | .. | 523·06 | 1·23 | ·245 | 523·00 | 27 | Pipe | Masonry .. .. | 22 | 3 | 521·70 | A |
| | 243 | 11 | 3½ | 130 | ·78 | 522·49 | 526·39 | 524·29 | .. | 524·06 | 525·00 | 523·57 | | | | | | Masonry, front parapets washed away. | 20 | | | |
| | 244 | 11 | 8½ | 328 | 8·82 | 522·41 | 526·31 | 526·36 | .. | 520·61 | .. | 516·96 | | | | | | Masonry .. .. | 22 | | | |
| | | | | | 11·10 | | | | | | | | | | | | | | | | | |
| 99 | 245 | 11 | 4 | 245 | .. | 522·25 | 526·20 | .. | .. | .. | .. | .. | 1·42 | ·321 | 522·80 | 27 | Pipe | Masonry blocked up .. | 25 | 4 | 521·55 | A |
| | 246 | 11 | 4 | 280 | .. | 522·05 | 526·20 | .. | .. | .. | .. | .. | | | | | | Not in use .. .. | 19 | | | |
| | 247 | 11 | 4½ | 15 | 12·48 | 522·15 | 526·16 | .. | 523·08 | 523·00 | 524·78 | 523·16 | | | | | | Masonry Government sluice. | 12 | | | |
| | 248 | 11 | 4½ | 188 | 5·52 | 522·25 | 526·10 | 523·05 | .. | 522·92 | .. | 522·87 | | | | | | Masonry .. .. | 20 | | | |
| | | | | | 18· | | | | | | | | | | | | | | | | | |
| 100 | 249 | 11 | 5 | 112 | 6·66 | 522·01 | 526·06 | 523·33 | .. | 523·08 | .. | 523·03 | 1·33 | ·41 | 522·38 | 27 | Pipe | Masonry .. .. | 19 | 5 | 521·40 | B |
| | 250 | 11 | 5 | 160 | ·8 | .. | .. | .. | .. | .. | .. | .. | | | | | | Pot sluice blocked up .. | .. | | | |
| | 251 | 11 | 5 | 234 | 7·5 | 522·04 | 526·04 | 522·84<br>524·28 | Plug-hole. | 522·82 | 524·66 | 523·13 | | | | | | Masonry .. .. | 17 | | | |
| | 252 | 11 | 5 | 268 | 5·98 | 521·54 | 526·04 | 523·08 | 520·46 | 520·58 | .. | 515·43 | | | | | | Do. .. .. | 21 | | | |
| | 253 | 11 | 5½ | 37 | 4·20 | 521·62 | 525·92 | 522·48<br>524·20 | Plug-hole. | 522·28 | .. | 522·33 | | | | | | Do. .. .. | 15 | | | |
| | | | | | 23·97 | | | | | | | | | | | | | | | | | |
| 101 | 254 | 11 | 5½ | 88 | ·5 | 521·13 | 525·85 | 524·53 | .. | 524·43 | 524·51 | 524·48 | *Nil.* | .. | 523·00 | 27 | Pipe. | Roughstone .. .. | 11 | 3 | 521·40 | A |
| 102 | 255 | 11 | 5¾ | 200 | 5·78 | 521·52 | 525·87 | 523·99 | .. | 522·19 | .. | 520·94 | 1·17 | ·29 | 522·40 | 27 | Pipe | Masonry .. .. | 15 | 4 | 521·30 | A |
| | 256 | 11 | 5½ | 237 | 6·74 | 521·56 | 525·86 | 523·14 | .. | 522·93 | 524·50 | 523·13 | | | | | | Do. .. .. | 21 | | | |
| | | | | | 12·52 | | | | | | | | | | | | | | | | | |
| .. | .. | 11 | 5½ | 320 | | | | | | | | | No. 9 under-tunnel. | | | | | | | | | |
| 103 | 257 | 11 | 6 | 60 | 6·94 | 521·95 | 525·85 | 523·01 | .. | 522·81 | 524·49 | 522·86 | 1·43 | ·205 | 522·00 | 27 | Pipe. | Masonry .. .. | 22 | 3 | 521·30 | A |
| 104 | 258 | 11 | 6 | 262 | 6·14 | 521·68 | 525·83 | 522·83 | .. | 522·89 | 524·48 | 523·93 | ·35 | ·261 | 522·43 | 27 | Pipe. | Masonry .. .. | 20 | 4 | 521·30 | A |
| *Bramana Sinna Agraharam.* | | | | | | | | | | | | | | | | | | | | | | |
| 106 | 259 | 11 | 6¼ | 37 | 9·78 | 521·56 | 525·81 | 522·56 | 520·91 | 520·81 | .. | 507·90 | 1·35 | ·375 | 522·20 | 27 | Pipe | Masonry .. .. | 22 | 5 | 521·25 | B |
| | 260 | 11 | 6½ | 310 | 8·18 | 521·76 | 525·65 | 522·72 | .. | 523·04 | 524·31 | 522·76 | | | | | | Do. .. .. | 20 | | | |
| | 261 | 11 | 7 | 112 | 3·65 | 521·33 | 525·58 | 523·40 | .. | 522·71 | .. | 522·91 | | | | | | Do. .. .. | 16 | | | |
| | | | | | 21·61 | | | | | | | | | | | | | | | | | |

9

## List of sluices in the Kalingaroyen channel showing position, &c., of new sluices proposed—*cont.*

| New serial number. | Old serial number. | Mileage. |  |  | Acreage. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluices. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice. | Description of old sluices. | Length in feet of old sluice. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  | Miles. | Furlongs. | Feet. | Acres.* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | FEET. |  |  |  | INCHES |  |  |
| *Bramana Sinna Aggraharam—cont.* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 106 | 262 | 11 | 7 | 118 | 7·45 | 521·18 | 525·58 | .. | .. | 522·53 | .. | 517·92 | 1·53 | ·50 | 521·82 | 27 | Pipe | Masonry .. .. | 16 | 6 | 521·10 | B |
|  | 263 | 11 | 7 | 370 | 0·13 | 521·77 | 525·57 | 522·38<br>523·38 | Plug hole. | 522·62 | .. | 522·57 |  |  |  |  |  | Do. .. .. | 22 |  |  |  |
|  | 264 | 11 | 7½ | 15 | 8·70 | 521·77 | 525·52 | 524·20 | .. | 522·49 | 524·18 | 522·45 |  |  |  |  |  | Do. .. .. | 16 |  |  |  |
|  | 265 | 11 | 7½ | 135 | 19·44 | 521·69 | 525·51 | 521·44<br>522·87 | Plug hole. | 519·71 | .. | 508·36 |  |  |  |  |  | Do. .. .. | 19 |  |  |  |
|  |  |  |  |  | 35·72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 107 | 266 | 11 | 7½ | 256 | 6·67 | 521·99 | 525·55 | 523·64 | .. | 522·84 | .. | 522·66 | ·67 | ·805 | 522·54 | 27 | Pipe | Masonry .. .. | 15 | 10 | 521·05 | B |
|  | 267 | 11 | 7½ | 305 | 2·28 | 522·10 | 525·50 | 523·54 | .. | 521·86 | 524·16 | 523·29 |  |  |  |  |  | Do. .. .. | 22 |  |  |  |
|  | 268 | 11 | 7½ | 315 | 13·28 | 522·09 | 525·49 | 522·76 | .. | 521·69 | .. | 519·78 |  |  |  |  |  | Do. .. .. | 22 |  |  |  |
|  | 269 | 12 | .. | 12 | 23·34 | 521·84 | 525·49 | 521·94 | .. | 520·74 | .. | 510·20 |  |  |  |  |  | Do. .. .. | 20 |  |  |  |
|  |  |  |  |  | 45·57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 108 | 270 | 12 | .. | 28 | 24·14 | 520·96 | 525·48 | 521·56 | .. | 521·49 | 524·14 | 505·07 | 3·09 | ·402 | 521·05 | 27 | Pipe | Masonry .. .. | 18 | 5 | 521·05 | A |
|  | 271 | 12 | .. | 40 | 11·82 | 521·73 | 525·48 | 522·28<br>523·69 | Plug hole. | 521·49 | .. | 505·72 |  |  |  |  |  | Do. .. .. | 18 |  |  |  |
|  |  |  |  |  | 35·96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 109 | 272 | 12 | .. | 50 | 4·74 | 521·57 | 525·47 | 522·34<br>523·79 | Plug hole. | 522·89 | .. | 522·94 | 94 | ·225 | 522·24 | 27 | Pipe | Masonry .. .. | 19 | 3 | 521·05 | A |
|  | 273 | 12 | .. | 130 | 2·54 | 521·72 | 525·47 | 522·49 | .. | 523·13 | 524·13 | 522·99 |  |  |  |  |  | Do. .. .. | 20 |  |  |  |
|  |  |  |  |  | 7·28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Palamedu.* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110 | 274 | 12 | .. | 215 | 21·94 | 520·82 | 525·47 | 521·74<br>523·54 | Plug hole. | 520·29 | .. | 511·15 | 2·33 | ·518 | 521·00 | 27 | Pipe | Masonry .. .. | 25 | 7 | 521·00 | B |
|  | 275 | 12 | .. | 302 | 14·37 | 521·61 | 525·46 | 522·07<br>523·44 | Plug hole. | 520·49 | 524·12 | 521·59 |  |  |  |  |  | Do. .. .. | 23 |  |  |  |
|  | 276 | 12 | 1 | 15 | 10·52 | 521·25 | 525·45 | 522·05 | .. | 521·84 | .. | 521·85 |  |  |  |  |  | Do. .. .. | 20 |  |  |  |
|  |  |  |  |  | 46·83 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 111 | 277 | 12 | 1 | 28 | 1·70 | 521·25 | 525·45 | 523·25 | .. | 523·15 | 524·12 | 523·34 | ·58 | ·158 | 522·60 | 27 | Pipe | Masonry Government sluice. | 12 | 3 | 521·00 | A |
|  | 278 | 12 | 1 | 300 | 1·66 | 521·90 | 525·44 | 522·02<br>521·03 | Plug hole. | 521·79 | .. | 522·93 |  |  |  |  |  | Masonry .. .. | 18 |  |  |  |
|  |  |  |  |  | 3·36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 112 | 279 | 12 | 1½ | 17 | 7·20 | 521·50 | 525·44 | 521·92 | .. | 520·10 | 524·11 | 518·95 | 3·21 | ·150 | 520·90 | 27 | Pipe. | Masonry .. .. | 19 | 3 | 520·90 | A |
| 113 | 280 | 12 | 1½ | 327 | 5·78 | 521·85 | 525·40 | 522·70 | .. | 523·05 | 524·06 | 523·16 | ·70 | ·382 | 523·00 | 27 | Pipe | Masonry .. .. | 19 | 5 | 520·70 | B |
|  | 281 | 12 | 2 | 257 | 3·63 | 521·65 | 525·37 | 522·70 | .. | 523·21 | .. | 523·60 |  |  |  |  |  | Do. .. .. | 16 |  |  |  |
|  | 282 | 12 | 2 | 275 | 4·1 | 521·62 | 525·37 | 522·65 | .. | 522·88 | .. | 523·10 |  |  |  |  |  | Do. .. .. | 16 |  |  |  |
|  |  |  |  |  | 13·42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 114 | 283 | 12 | 2½ | 240 | 3·74 | 521·35 | 525·35 | 522·95 | .. | 523·05 | .. | 523·00 | 1·08 | ·152 | 522·50 | 27 | Pipe | Masonry Government sluice. | 12 | 3 | 520·50 | A |
|  | 284 | 12 | 3 | 15 | 1·87 | 521·35 | 525·13 | 523·62 | .. | 523·19 | 523·84 | 522·58 |  |  |  |  |  | Masonry .. .. | 13 |  |  |  |
|  |  |  |  |  | 5·61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115 | 285 | 12 | 3½ | 96 | 3·32 | 521·35 | 524·90 | 522·15 | .. | 521·47 | 523·61 | 521·00 | 2·41 | ·092 | 520·45 | 27 | Pipe. | Masonry .. .. | 14 | 3 | 520·45 | A |
| 116 | 286 | 12 | 4 | 8 | 1·71 | 521·35 | 524·85 | 523·45 | .. | 523·05 | .. | 523·27 | ·78 | ·061 | 521·90 | 27 | Pipe | Masonry Government sluice. | 12 | 3 | 520·30 | A |
|  | 287 | 12 | 4 | 166 | .. | 521·40 | 524·80 | 523·63 | .. | 522·73 | 523·60 | 522·62 |  |  |  |  |  | Masonry .. .. | 15 |  |  |  |
|  | 288 | 12 | 5 | 19 | .. | .. | .. | .. | .. | .. | .. | .. |  |  |  |  |  | Masonry not used .. | .. |  |  |  |
|  |  |  |  |  | 1·71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 117 | 289 | 12 | 5½ | 43 | .. | 520·06 | 524·36 | 521·75 | .. | 522·20 | 523·10 | 522·30 | ·60 | ·351 | 521·60 | 27 | Pipe | Masonry Government sluice. | 12 | 5 | 520·00 | A |
|  | 290 | 12 | 5½ | 66 | 2·43 | 520·05 | 524·36 | 521·13 | .. | 520·71 | .. | 521·70 |  |  |  |  |  | Masonry .. .. | 15 |  |  |  |
|  | 291 | 12 | 5½ | 144 | 9·19 | 520·21 | 524·31 | .. | 520·86 | 521·42 | .. | 521·54 |  |  |  |  |  | Masonry not used .. | 15 |  |  |  |
|  |  |  |  |  | 11·62 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 118 | 292 | 12 | 6 | 130 | 1·62 | 519·86 | 524·11 | 521·79 | .. | 522·36 | 522·86 | 522·91 | *Nil.* | .. | 521·41 | 27 | Pipe. | Masonry Government sluice. | 12 | 3 | 519·90 | A |
| 119 | 293 | 12 | 7 | 215 | 1·33 | 518·56 | 523·86 | 521·36 | .. | 519·68 | 522·61 | 519·83 | 2·58 | ·042 | 519·75 | 27 | Pipe. | Roughstone blocked up .. | 25 | 3 | 519·75 | A |
| .. | .. | 12 | 7½ | 200 | 104·53 | No. 10 under-tunnel to be a new sluice close by under-tunnel (*vide* report accompanying); the sill to be at bed level. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120 | 294 | 13 | ½ | 136 | .. | 519·58 | 523·68 | .. | .. | .. | .. | .. | 1·81 | ·035 | 519·93 | 27 | Pipe | Masonry blocked up .. | 22 | 3 | 519·50 | A |
|  | 295 | 13 | ½ | 150 | 3·37 | 519·45 | 523·65 | 520·78 | .. | 520·38 | 522·44 | 520·43 |  |  |  |  |  | Iron pipe .. .. | 25 |  |  |  |
|  | 296 | 13 | ½ | 182 | .. | 519·48 | 523·63 | .. | .. | .. | .. | .. |  |  |  |  |  | Masonry not in use .. | 16 |  |  |  |
|  |  |  |  |  | 3·37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 121 | 297 | 13 | ½ | 250 | 2·21 | 519·33 | 523·58 | 520·33 | .. | 521·58 | .. | 521·48 | ·53 | ·42 | 520·80 | 27 | Pipe | Masonry .. .. | 19 | 5 | 519·30 | B |
|  | 298 | 13 | 1 | 285 | 5·39 | 519·12 | 523·55 | 520·42 | .. | 521·62 | 522·34 | 521·61 |  |  |  |  |  | Do. .. .. | 17 |  |  |  |
|  | 299 | 13 | 1½ | 60 |  | 518·92 | 523·49 | 520·32 | .. | 521·22 | .. | 521·19 |  |  |  |  |  | Do. .. .. | 15 |  |  |  |
|  | 300 | 13 | 1½ | 85 | 7·59 | 518·89 | 523·49 | 519·22 | .. | 520·17 | .. | 519·67 |  |  |  |  |  | Do. .. .. | 20 |  |  |  |
|  |  |  |  |  | 15·19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| .. | .. | 13 | 1½ | 270 |  | No. 11 under-tunnel. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

List of sluices in the Kalingaroyen channel showing position, &c., of new sluices proposed—*cont.*

| New serial number. | Old serial number. | Mileage. | | | Acreage. | Bed of main channel. | F.S.L. in channel. | Front sill level of sluices. | Rear sill level of sluices. | Bed of distributary channel in rear. | O.W.L. in channel. | Highest paddy field level. | Head available. | Ventway required. | Sill level of new sluices. | Length of pipes required. | Description of new sluice. | Description of old sluices. | Length in feet of old sluice. | Ventway or size of sluice given. | Proposed bed level. | Plan. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Miles. | Furlongs. | Feet. | Acres. | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | FEET. | | | | INCHES | | |
| | | | | | | | | | | | *Pelamedu*—cont. | | | | | | | | | | | |
| 122 | 301 | 13 | 2 | 146 | 6·9 | 518·54 | 523·44 | 519·39 | .. | 519·16 | .. | 518·94 | 2·21 | ·106 | 519·10 | 27 | Pipe | Masonry Government sluice. | 12 | 3 | 519·10 | A |
| | 302 | 13 | 2½ | 215 | .. | 517·51 | 523·41 | .. | .. | .. | .. | .. | | | | | | Masonry blocked up | 25 | | | |
| | 303 | 13 | 3 | 55 | 1·59 | 518·89 | 523·39 | .. | 519·82 | 519·81 | 522·20 | 519·79 | | | | | | Masonry | 22 | | | |
| | | | | | 6·68 | | | | | | | | | | | | | | | | | |
| [illegible] | 304 | 13 | 3 | 145 | 46·97 | 518·96 | 523·36 | 578·77 | 518·64 | 518·69 | .. | 516·71 | 3·03 | ·761 | 519·15 | 27 | Pipe | Masonry Government sluice. | 12 | 10 | 519·05 | B |
| | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 519·64 | [illegible] | 518·49 | 522·08 | 518·61 | | | | | | Masonry Government sluice. | 12 | | | |
| | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | | | | | | [illegible] | 20 | | | |
| | | | | | 121·10 | | | | | | | | | | | | | | | | | |
| 124 | 307 | 13 | 3 | 297 | ·89 | 519·19 | 523·24 | 520·34 | .. | 520·51 | .. | 520·54 | 2·68 | ·130 | 518·95 | 27 | Pipe | Masonry | 20 | 3 | 518·95 | A |
| | 308 | 13 | 3½ | 87 | 1·80 | 518·83 | 523·13 | 518·58 | .. | 518·47 | 521·94 | 519·06 | | | | | | Do. | 16 | | | |
| | 309 | 13 | 4 | 35 | 3·36 | 518·68 | 523·11 | 519·65 | .. | 519·50 | .. | 519·45 | | | | | | Do. | 16 | | | |
| | | | | | 6·5 | | | | | | | | | | | | | | | | | |
| .. | .. | 13 | 4 | 284 | | | | | | | No. 10 masonry bridge of four vents. | | | | | | | | | | | |
| 125 | 310 | 13 | 4½ | 282 | 4·59 | 518·33 | 523·03 | 518·43 | .. | 520·10 | 521·85 | 519·75 | 1·90 | ·158 | 520·00 | 27 | Pipe | Masonry | 17 | 3 | 518·80 | A |
| | 311 | 13 | 5 | 130 | 1·97 | 519·23 | 523·00 | 520·27 | .. | 520·79 | .. | 520·73 | | | | | | Do. | 25 | | | |
| | 312 | 13 | 5 | 174 | .. | 519·32 | 522·98 | .. | .. | .. | .. | .. | | | | | | Iron pipe blocked up | 22 | | | |
| | | | | | 6·56 | | | | | | | | | | | | | | | | | |
| .. | .. | 13 | 5 | 283 | | | | | | | No. 12 under-tunnel. | | | | | | | | | | | |
| 126 | 313 | 13 | 5½ | 208 | 3·76 | 519·18 | 522·83 | 520·53 | .. | 521·68 | 521·63 | 521·68 | *Nil.* | .. | 520·18 | 27 | Pipe. | Masonry | 17 | 3 | 518·60 | A |
| 127 | 314 | 13 | 6 | 112 | 2·87 | 518·66 | 522·76 | 520·16 | .. | 520·26 | 521·62 | 520·24 | 1·18 | ·150 | 519·50 | 27 | Pipe | Masonry | 17 | 3 | 518·50 | A |
| | 315 | 13 | 6½ | 59 | 1·62 | 518·95 | 522·71 | 519·85 | .. | 519·86 | .. | 519·86 | | | | | | Do. | 23 | | | |
| | 316 | 13 | 7 | 7 | 0·78 | 518·71 | 522·49 | 520·42 | .. | 520·50 | .. | 519·48 | | | | | | Do. | 20 | | | |
| | | | | | 5·27 | | | | | | | | | | | | | | | | | |
| .. | .. | 13 | 7 | 170 | | | | | | | No. 5 gauge R.L. of Zero point 520·16. | | | | | | | | | | | |
| .. | .. | 13 | 7½ | .. | | | | | | | No. 2 masonry aqueduct. | | | | | | | | | | | |
| 128 | 317 | 14 | .. | 295 | 1·23 | 517·99 | 521·34 | 517·68 | .. | 517·17 | 520·22 | 515·93 | 2·32 | ·032 | 517·90 | 27 | Pipe. | Masonry | 15 | 3 | 517·90 | A |
| .. | .. | 14 | ½ | 15 | | | | | | | No. 5 outlet (falling shutters) 30 feet long crest level 520·67. | | | | | | | | | | | |
| 129 | 318 | 14 | ½ | 160 | 0·49 | 517·79 | 521·29 | 517·34 | .. | 514·52 | .. | 514·41 | 1·29 | ·10 | 517·81 | 27 | Pipe | Masonry | 22 | 3 | 517·30 | A |
| | 319 | 14 | 1 | 112 | .. | 517·44 | 521·07 | .. | .. | .. | .. | .. | | | | | | Masonry blocked up | 20 | | | |
| | 320 | 14 | 1 | 128 | 2·22 | 517·44 | 521·07 | 518·97 | .. | 578·44 | 520·00 | 518·51 | | | | | | Iron pipe | 33 | | | |
| | | | | | 2·71 | | | | | | | | | | | | | | | | | |
| .. | .. | 14 | 1¼ | 60 | | | | | | | No. 11 iron girder bridge (Madras Railway Company). | | | | | | | | | | | |
| 130 | 321 | 14 | 1½ | 290 | 13·23 | 517·54 | 520·00 | 516·30 | .. | 516·87 | .. | 516·37 | ·54 | ·545 | 517·40 | 27 | Pipe | Masonry | 20 | 7 | 516·20 | B |
| | 322 | 14 | 2 | 180 | 1·68 | 516·78 | 519·94 | 518·14 | .. | 518·10 | 518·38 | 518·14 | | | | | | Porcelain pipe | 19 | | | |
| | 323 | 14 | 2 | 307 | 1·45 | 516·75 | 519·78 | .. | .. | 517·70 | .. | 517·66 | | | | | | Roughstone | 19 | | | |
| | 324 | 14 | 2½ | 76 | 1·97 | 516·61 | 519·73 | 517·85 | .. | 578·04 | .. | 517·90 | | | | | | Masonry | 14 | | | |
| | 325 | 14 | 2½ | 98 | 2·48 | 516·55 | 519·72 | .. | .. | 517·36 | .. | 517·57 | | | | | | Roughstone | 11 | | | |
| | | | | | 20·81 | | | | | | | | | | | | | | | | | |
| 131 | 326 | 14 | 2¼ | 167 | 4·91 | 518·98 | 519·71 | 517·47 | .. | 517·30 | .. | 517·61 | ·17 | ·365 | 517·15 | 27 | Pipe | Roughstone | 14 | 5 | 515·70 | B |
| | 327 | 14 | 2½ | 178 | .. | 516·96 | 519·71 | .. | .. | 517· | .. | .. | | | | | | Iron pipe blocked up | 20 | | | |
| | 328 | 14 | 2½ | 315 | 1·62 | 516·41 | 519·31 | 518·31 | .. | 517·91 | 518·26 | 517·90 | | | | | | Masonry Government sluice. | 12 | | | |
| | 329 | 14 | 3 | 7 | 1·67 | 516·51 | 519·21 | 517·31 | .. | 517·55 | .. | 517·21 | | | | | | Roughstone | 20 | | | |
| | | | | | 8·20 | | | | | | | | | | | | | | | | | |
| 132 | 330 | 14 | 3 | 24 | 1·87 | 515·56 | 519·16 | 516·66 | .. | 514·71 | 518·12 | 508·56 | 2·52 | ·030 | 515·60 | 27 | Pipe. | Masonry | 22 | 3 | 515·60 | A |
| 133 | 331 | 14 | 3 | 87 | 1·63 | 516·76 | 519·01 | 517·61 | .. | 517·91 | .. | 517·88 | *Nil.* | .. | 517·10 | 27 | Pipe | Roughstone | 14 | 4 | 515·80 | A |
| | 332 | 14 | 3 | 229 | 2·31 | 516·66 | 518·91 | 517·66 | .. | 517·91 | 517·88 | 517·83 | | | | | | Masonry Government sluice. | 12 | | | |
| | | | | | 3·94 | | | | | | | | | | | | | | | | | |
| 134 | 333 | 14 | 3½ | 44 | 2·58 | 516·68 | 518·35 | 516·85 | .. | 517·53 | 518·32 | 516·33 | 1·79 | ·162 | 516·70 | 27 | Pipe | Masonry | 14 | 3 | 515·00 | B |
| | 334 | 14 | 3½ | 50 | 1·72 | 516·65 | 518·35 | 516·60 | .. | 517·39 | .. | 517·40 | | | | | | Roughstone | 14 | | | |
| | 335 | 14 | 3½ | 164 | 2·22 | 514·29 | 518·30 | 517·06 | .. | 517·06 | .. | 517·16 | | | | | | Do. | 11 | | | |
| | 336 | 14 | 3½ | 236 | .. | 513·96 | 517·96 | .. | .. | .. | .. | .. | | | | | | Masonry blocked up | 16 | | | |
| | | | | | 6·52 | | | | | | | | | | | | | | | | | |
| 135 | 337 | 14 | 5 | 75 | ·79 | 513·70 | 516·60 | 515·35 | .. | 516·07 | 515·60 | 516·03 | *Nil.* | .. | 514·50 | 27 | Pipe. | Roughstone | 12 | 3 | 513·80 | A |
| 136 | 338 | 14 | 5½ | 218 | 3·46 | 513·43 | 515·83 | 515·35 | .. | 515·14 | 514·84 | 515·02 | *Nil.* | .. | 513·75 | 27 | Pipe | Masonry Government sluice. | 12 | 4 | 512·80 | A |
| | 339 | 14 | 6 | 37 | ·76 | 512·50 | 515·40 | .. | .. | 514·25 | .. | 514·07 | | | | | | Roughstone | 14 | | | |
| | | | | | 4·22 | | | | | | | | | | | | | | | | | |
| 137 | 340 | 14 | 7½ | 26 | 2·14 | 510·99 | 514·24 | 511·72 | .. | 512·49 | 513·29 | 512·41 | ·68 | ·141 | 511·91 | 27 | Pipe | Masonry Government sluice. | 12 | 3 | 511·00 | A |
| | 341 | 14 | 7½ | 243 | ·93 | 511·79 | 514·19 | 511·09 | .. | 510·84 | .. | 510·64 | | | | | | Roughstone | 21 | | | |
| | | | | | 3·7 | | | | | | | | | | | | | | | | | |
| .. | .. | 15 | ½ | 80 | | | | | | | No. 6 outlet two vents 6′ 6″ × 5′ 3″ and 6′ 8″ × 3′ 9″ sill levels 509·01 and 510·54. | | | | | | | | | | | |
| 138 | 342 | 15 | 2 | 80 | 4·20 | 509·01 | 513·67 | 510·20 | .. | 510·80 | 512·76 | 510·65 | 1·91 | ·20 | 509·90 | 27 | Pipe | Masonry | 11 | 3 | 509·50 | A |
| | 343 | 15 | 2 | 92 | 4·35 | 509·10 | 513·67 | 509·65 | .. | 509·55 | .. | 509·50 | | | | | | Do. | 23 | | | |
| | | | | | 8·55 | | | | | | | | | | | | | | | | | |
| .. | .. | 15 | 2 | 295 | | | | | | | No. 6 gauge R.L. of Zero point 509·23. | | | | | | | | | | | |
| 139 | 344 | 15 | 2 | 344 | ·76 | 509·41 | 513·51 | 511·20 | .. | 512·60 | 512·60 | 512·55 | *Nil.* | .. | 511·05 | 27 | Pipe. | Masonry | 22 | 3 | 509·23 | A |

(Signed) P. V. MANICKAM NAYAKAR,
Asst. Engineer, Erode Sub-Division.

(Signed) C. H. B. BURLTON,
Ex. Engr., Coimbatore Division.

## No. 246 I.

*Note by the Acting Chief Engineer for Irrigation.*

In 1891 estimates were sanctioned by the Secretary of State for the improvement and extension of the Kalingaroyen channel in the Coimbatore district. This sanction having expired in January 1896 and as no outlay was incurred on the work owing to funds not having been assigned to it by the Government of India, the Superintending Engineer, IV Circle, was directed in G.O., No. 705 I., dated 17th August 1896, to report whether any modifications in the estimates were required prior to an extension of sanction being applied for.

2. In his report embodied in Proceedings of Madras Government, No. 1089 I., dated 23rd December 1896, the Superintending Engineer expressed doubts as to the adequateness of the sanctioned estimates, the necessity for the work in the event of the Bhaváni reservoir project being constructed and the possibility of passing water down to the 89th mile of the channel, and recommended that the extension of the channel should not be commenced until the existing channel had been entirely re-sluiced.

3. On receipt of the above report, the Government of India in its letter printed in Proceedings of Madras Government, No. 291 I., dated 3rd March 1897, declined to extend the term of sanction to the extension estimates pending receipt of a further explanation on the Superintending Engineer's doubts, but directed that, in the meanwhile, the estimate for re-sluicing the channel may be sanctioned under "43. Minor Works and Navigation—Provincial."

4. The Superintending Engineer reports that, in anticipation of sanction, he has permitted the work to be put in hand and has even ordered the cast iron pipes; this he should not have done without reference to this office. As it was intended to considerably reduce the amount of the estimate by substituting stoneware pipes for cast iron, or to utilize the large surplus stock of cement pipes available in the Kistna district, the Superintending Engineer has been instructed to provide means of regulation for the larger sluices, and the remarks on the sluice plan should be attended to.

5. With his letter read above the Superintending Engineer submits an estimate of Rs. 14,500 for re-sluicing the channel from 1st to 15th mile which is recommended for sanction, the funds required for expenditure on the work being provided by transfer from the existing grants for tank restoration repairs in the North Arcot and Salem divisions as suggested by the Superintending Engineer.

22nd September 1898.

(Signed) J. C. LARMINIE,
Ag. Chief Engineer for Irrigation.

---

Order—No. 752 I., dated 30th September 1898.

The following estimate is sanctioned :—

Irrigation.
43. Minor Works and Navigation.
Minor Works for which Capital and Revenue Accounts are kept.
Kalingaroyen Channel System.
Open Capital Account.
I. Works.
2. Main Canals and Branches.
3. Regulators.
Re-sluicing the Kalingaroyen channel from 1st to 15th mile.

| Estimate— | RS. |
|---|---|
| I. Works ... ... ... ... ... ... ... ... | 14,500 |
| II. Establishment ... ... ... ... ... ... ... | 3,335 |
| III. Tools and plant ... ... ... ... ... ... ... | 65 |
| Total, Estimate ... | 17,900 |

2. This sanction is registered as No. 75 I. of 1898–99 and will expire on 31st March 1899.

3. The following transfers of funds are sanctioned :—

Irrigation.
43. Minor Works and Navigation.

*From*
Minor Works for which neither Capital nor Revenue Accounts are kept.
Tank Restoration Repairs.

| | RS. |
|---|---|
| North Arcot division ... ... | 8,000 |
| Salem division ... ... ... | 6,325 |
| | 14,325 |
| Establishment ... ... ... | 3,295 |
| Tools and plant ... ... ... | 215 |
| Total ... | 17,835 |

*To*
Minor Works for which Capital and Revenue Accounts are kept.
Kalingaroyen Channel System.
Coimbatore Division.
Capital Account.

| | RS. |
|---|---|
| Works ... ... ... ... ... | 14,500 |
| Establishment ... ... ... | 3,335 |
| Total ... | 17,835 |

4. The Superintending Engineer, IV Circle, will expedite the submission of the estimate for re-sluicing the remaining length of the channel keeping in view the remarks of the Chief Engineer for Irrigation in paragraph 4 of the foregoing note regarding the utilization of the large surplus stock of cement pipes available in the Kistna district.

(True Extract.)

(Signed) J. C. LARMINIE,
Ag. Joint Secy. to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, IV Circle, with seventeen enclosures.
" Examiner of Public Works Accounts.

Exd. T. K. Narayana Aiyangar.

C.E.I.
26-8-98

# Public Works (1898) Department.

**CURRENT No.** 34 C.I.

Urgent

**From** The Supg. Engineer
4th Circle

**Order**

C.E. to check.

25/8/98

F.E.
The estimate has been checked

30/8/98

Recd
30.8.98
4 P.M.

25/8/98

**No.** 189/I

**Dated** 19th August 1898

**Received** 24 — Do —

**Registered**

**Enclosures** 18 (9 plans)

**Spare copies** ✓

SUBJECT.

Kalingarayen Channel

Submits for Sanction plan & estimate amtg. to Rs 14,500 for resluicing the — with certain suggestions for providing funds for the work.

D.E.I.

25/8/98

18

25/8/98

BACK PAPERS.

| No. | Date. |
|---|---|
| R 1558 | d/ 15·3·97 |
| R 25 I | 23-12-96 |
| I 11 C I | 5-7-98 |
| I 1 C I | 30-7-98 |

FURTHER PAPERS.

| No. | Date. |
|---|---|
| I 15 C I<br>I 288 M | 5-9-98 |
| R 37 C I | 17-9-98 |

---

No. 189/I

Superintending Engr's Office 4th Circle
Camp Yercaud 19th August 1898

From

A. F. Garrett Esq:
Superintending Engineer 4th Circle

To

The Chief Engineer
for Irrigation
Madras

Sir,

Enclos: 18. ×
1 Estimate
1 Resluicing statement
1 Plan
2 Curves
1 Explanation
8 Village maps
2 Lists of Sluices
1 Data Sheet
1 Report.

× sent Per Book Post

With reference to G.O. No. 219. I. dated 3rd March 1897, I have the honor to forward herewith plan and estimate amounting to Rs: 14,500 for resluicing the Kalingarayan channel from 1st to 15th mile, with necessary resluicing statements.

2. The work proposed to be carried out is similar to that which has been done on other channels in the Coimbatore District with marked success, and as I have allo[wed] it to proceed in anticipation of sanction at the urgent request of the Executive Engineer I beg that sanction may not be delayed.

3. The estimate for resluicing the remaining length of the channel will be submitted in due course, and if there shou[ld] be

in any difficulty in providing funds for the estimate now submitted. I would suggest a transfer from T. R. S. grants in North Arcot and Salem Divisions.

I have the honor to be
Sir
Your most obedient Servt.

Superintending Engineer
4th Circle

FOR
24 AUG. 1898
No. 34 C I

Ols 8.1
8/10/28

2 IP

## Report to accompany the Estimate for Relining the Kalingarayan channel head to 15 miles

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## Amount of Estimate Rs 14,500.

The Estimate has been prepared with reference to G.O. No. 219 I dated 3rd March 1897 and on the lines of the Estimate sanctioned in G.O. No. 182 I of 19.2.96 for Relining the Thadapully channel.

2. The existing masonry sluices in addition to their being too big for the ayacut under them having been in almost all cases purposely built leaky by the ryots with loose boulders of rough stone under the foundations and on the sides, impartial regulation of the sluices is an impossibility. Hence it is very essential to have as much ~~of much~~ the channel relined as possible. But as under the present financial conditions there seems to be no likelihood of large grants being allotted for this work and as the channel will eventually be regraded and improved in which case many of the pipe sluices will have to be altered, and the designs for the sluices are made as simple

simple and less expensive as possible. The masonry works are limited to cisterns and the pipes to be simply laid in the ground with 1 foot puddle all round without any masonry at their heads. Out of the estimated amount Rs 14500 even in case all the sluices are to be altered the loss will only be 14500-6540= Rs ~~8200~~ 7960 = Rs 530 per mile which when compared with the advantages is only a trifling, amount

3. The existing sluices are 344 in number and it is proposed to replace them with 140 pipe sluices (Counting 7(a) and 7(b) as two sluices. For lands about or above O.W.L separate sluices have been provided as in dry years these will require baling and as it is unfair to put other lands whose levels will allow a free irrigation by gravitation to suffer the same inconvenience by combining them with high lands. In grouping combination of high and low lands has been avoided as far as possible. The area commanded by the channel being a long and very narrow strip of land further diminution in number will require long side channels and will be detrimental to the proper distribution of water to the fields. Out of the 140 pipe sluices 94 need have no cisterns but for the remaining 46 as in

each

each case three or more old sluices or combined cisterns in rear are provided. Shutters for the 7 large sluices Nos 39, 46, 47, 59, 73, 107 and 123 may be put up later on if found absolutely necessary.

4. As the lands to be irrigated are light sandy and porous as the ground slopes rapidly towards the river which will tend to drain off the water sooner than when the fields are flat and as under 85% of the new sluices the areas are very small a duty of 30 acres per ~~Cu. sec.~~ cubic feet per second is allowed.

5. In fixing the sill levels of new sluices the highest land level under each old sluice has been considered. In cases of very high lands which have no head of water when the channel is at the O.W.L. the sill levels have been lowered to 1½ feet below the O.W.L allowing depth for baling in rear of sluices. In all the other cases the sills have only been lowered from 6" to 9" below the highest land level. In no case the sill is fixed below the average bed levels of the channel which have been deduced from the water levels, as it induces scour and drains off an unfair amount of supply when the water level is low. It was first thought advisable to

so

simple and less expensive as possible. The masonry works are limited to cisterns and the pipes to be simply laid in the ground with 1 foot puddle all round without any masonry at their heads. Out of the estimated amount Rs 14500 even in case all the sluices are to be altered the loss will only be 14500 - 6540 = Rs ~~8200~~ 7960 = Rs 530 per mile which when compared with the advantages is only a trifling. amount

3. The existing sluices are 344 in number and it is proposed to replace them with 140 pipe sluices ( Counting 7(a) and 7(b) as two sluices. For lands about or above O.W.L separate sluices have been provided as in dry years these will require baling and as it is unfair to put other lands whose levels will allow a free irrigation by gravitation to suffer the same inconvenience by combining them with high lands. In grouping combination of high and low lands has been avoided as far as possible. The area commanded by the channel being a long and very narrow strip of land further diminution in number will require long side channels and will be detrimental to the proper distribution of water to the fields. Out of the 140 pipe sluices 94 need have no cisterns but for the remaining 46 as in

each

each case three or more old sluices or combined cisterns in rear are provided. Shutters for the 7 large sluices Nos 39, 46, 47, 59, 73, 107 and 123 may be put up later on if found absolutely necessary.

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5. In fixing the sill levels of new sluices the highest land level under each old sluice has been considered. In cases of very high lands which have no head of water when the channel is at the O.W.L. the sill levels have been lowered to 1½ feet below the O.W.L allowing depth for baling in rear of sluices. In all the other cases the sills have only been lowered from 6" to 9" below the highest land level. In no case the sill is fixed below the average bed levels of the channel which have been deduced from the water levels, as it induces scour and drains off an unfair amount of supply when the water level is low. It was first thought advisable to

so

so fix the sill levels of vents in cisterns that the high and the low lands under each sluice may be supplied at one and the same time, but considering that when the lands are irrigated by turns with a low water level in the channel it will be very hard on the ryot owning the low level land to see his lands suffer with high lands it is proposed to have the sill levels of vents in cisterns at sills of pipes. The ryots will in course of time learn to raise when necessary the sills of vents of cisterns temporarily with clay and irrigate high and low lands together.

6. It is practically impossible to make the size of the vents in the cistern exactly commensurate with the area under each vent and the simplest plan is to make all the vents of equal width, as the greatest diameter of pipes used is 10", a 9" square vent ought to be enough to discharge the whole quantity without loss of head if the velocity of approach of the discharged volume is not obstructed by any other cause. Also as in a vent from the bottom of cistern to top of wall anything

over

over 9" will be difficult to close with clay. Three 9" vents for each cistern have been allowed. This dimension of vents was tried in the Thadapully channel where in general the ayacuts under each sluice are comparatively many times over those under the sluices of the Kalingarayan channel and found efficient.

Then it will be too large in this case

7. In calculating the dimensions of pipes the head available for each sluice has been arrived at by deducting the level of the highest lands under each sluice from the O.W.L. and then deducting 3" from the result for the depth of water in the high level fields.

In cases of sluices without cisterns the head available will also be the effective head for discharge whereas in those with cisterns in rear there will be some loss of head due to the cisterns (this is explained in the calculation sheet attached) The loss becomes enormous when the available head is small and also when the acreage to be irrigated is large. For instance

if

if 120 acres are to be irrigated with one foot head a 15¼" pipe will be necessary if there is cistern in rear but when there is no cistern a 11½" pipe is enough and the sectional area of the former pipe is 1¾ times as big as the latter. When all these are considered the calculation becomes laborious but with the graphic curves attached the results have been obtained with much facility.

For the very high lands referred to in para 5 as there is no head to base the calculation on a little liberal allowance of 10 acres per 2 sq inches of pipe has been made. The main item in the estimate is the cast iron pipes and when they are ready the remaining work can be done in no time. As so much difficulty in the management and regulation of the channel has been experienced year after year it is not at all desirable to postpone the work any further and materials will be collected as per Superintending Engineer's

instructions

instructions in anticipation of sanction and the work completed before the next irrigation season.

Estimate for the remaining length of the channel will be submitted in due course.

Manickam
Assistant Engineer
31-3-98.

EXECUTIVE ENGINEER'S OFFICE COIMBATORE.
No. 1720
4 APR. 1898
Encl. 2

SUPG. ENGINEER'S OFFICE, P.W.D. FOURTH CIRCLE.
No.
5 MAY. 98
Enclo.

"Enclo: No 3 to letter No 187"

For
24 AUG. 1898
34 C8
3

O.W.S. 3
8102/98

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19

# Public Works (1898) Department.

**CURRENT No.** 8102

Urgent.

*From*

The Chief Engr. for Irrign.

*Order*

No. 246 I

*Dated* 22.5.98

*Received*
*Registered* 29-5-98

*Enclosures* ~~18~~ 20 (8 maps, 2 curves & 1 plan)

*Spare copies*

In Ms 88.

**SUBJECT.**

Kalingarayan Channel – Est. of Rs 14500 for reshaping the – Note recommended for sanction the –

BACK PAPERS.

| No. | Date. |
|---|---|
|  |  |

FURTHER PAPERS.

| No. | Date. |
|---|---|
|  |  |

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# List
of Sluices in
the
Kalingarayen Channel
shewing
Position &c of new sluices proposed.

அ.8.9
8102/8

23

6

to crown of arch)

2 .97

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | No 1 Masonry Bridge at Head sluice | | | | | | | | | | | | | | | | | | | |
| | | 0 | 1½ | 176 | No 2 —— do —— of two arches (Erode Bhavani Road) | | | | | | | | | | | | | | | | | | | |
| | | | | | **Ananaswampollium Village** | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | | 2½ | 44 | 3 | 12 | 535.39 | 539.89 | - | - | 537.74 | 537.00 | 536.22 | .58 | .15 | 535.22 | 27ft | Pipe | Masonry | 29ft | 3" | 532.60 | A | |
| | | | 4 | 110 | No 1 Outlet (Sand Sluice) Vent 3½'×3' Sill level 531.18 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | .. | 6½ | 3 | 3 | 1 | 532.76 | 539.28 | 535.01 | 534.79 | 535.34 | 536.95 | 536.86 | Nil | | 535.86 | 27ft | Pipe | Masonry | 31ft | 3" | 532.40 | A | |
| 3 | 3 | - | 7 | 302 | 2 | 46 | 532.70 | 539.00 | 535.43 | 535.28 | 537.36 | 536.44 | 534.62 | 1.72 | 0.82 | 534.00 | 27ft | Pipe | Masonry | 17ft | 3" | 532.30 | A | |
| | 4 | 1 | .. | 130 | 3 | 4 | 532.30 | 538.80 | 534.98 | 534.24 | 537.12 | 536.32 | 536.71 | Nil | | 535.71 | 27ft | Pipe | Palmyrah tube | 7ft | 3" | 532.30 | A | |
| | 5 | 1 | ½ | 149 | 7 | 39 | 533.11 | 538.76 | 534.51 | 534.32 | 535.76 | | 535.57 | | | | | | Rough stone | 8ft | | | | |
| | 6 | 1 | ½ | 164 | 3 | 97 | 533.98 | 538.76 | 535.47 | 534.26 | 535.91 | 536.30 | 535.66 | .44 | .334 | 534.96 | 27ft | Pipe | Masonry | 9ft | 4" | 532.20 | A | |
| | | | | | 11 | 36 | | | | | | | | | | | | | | | | | | |
| | 7 | 1 | 2 | 265 | 3 | 76 | 533.87 | 538.43 | 533.86 | 533.64 | 534.94 | 536.28 | 534.98 | 1.10 | .12 | 534.23 | 27ft | Pipe | Masonry Govt. Sluice | 12ft | 3" | 532.15 | A | |
| | .. | 1 | 2½ | 261 | Vent 3½'×3½' Sill level 529.89 | | | | | | | | | | | | | | | | | | | |
| | 8 | 1 | 4 | 165 | 5 | 45 | 533.41 | 538.21 | 535.09 | 534.80 | 535.15 | | 535.60 | | | | 27ft | Pipe | Masonry | 16ft | 4" | | A | 7(a) |
| A | 9 | 1 | 4 | 175 | 5 | 19 | 533.46 | 538.21 | 534.88 | 533.96 | 535.93 | 536.23 | 536.10 | Nil | | 535.10 | 27ft | Pipe | Palmyrah tube | 10ft | 4" | 532.10 | A | 7(b) |
| 7.B | 10 | 1 | 4½ | 14 | 4 | 83 | 533.28 | 538.18 | 534.68 | 534.56 | 535.82 | | 535.95 | | | | | | Palmyrah tube | 10ft | | | | |
| | | | | | 15 | 47 | | | | | | | | | | | | | | | | | | |
| | 11 | 1 | 4½ | 73 | 3 | 6 | 533.18 | 538.18 | 534.88 | 534.51 | 537.18 | 536.22 | 537.10 | Nil | | 535.60 | 27ft | Pipe | Rough stone | 8ft | 3" | 532.10 | A | |
| | .. | 1 | 5½ | 102 | No 3 Masonry bridge of 3 arches | | | | | | | | | | | | | | | | | | | |
| | 12 | 1 | 6½ | 262 | 1 | 74 | 534.49 | 537.74 | 533.46 | | 534.24 | 535.89 | 534.12 | 1.57 | .039 | 533.40 | 27ft | Pipe | Masonry | 24ft | 3" | 531.70 | A | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 13 | 2 | " | 10 | " | 3 | 530·84 | 537·59 | 533·31 | 533·09 | 534·41 | 535·74 | 534·26 | 1·28 | Nearly [illegible] |
| 11 | 14 | 2 | 1 | 10 | 2 | 24 | 532·26 | 537·36 | 534·58 | 534·42 | 536·18 | 535·61 | 534·98 | ·43 | ·75·1 |
|  |  | 2 | 2½ | 200 | Gauge No. 2 R. L. of Zero point 531·03 |  |  |  |  |  |  |  |  |  |  |
|  |  |  | No. 1 Masonry aqueduct. |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 15 | 2 | 4½ | 88 | 4 | 72 | 531·31 | 536·61 | 533·61 | 533·35 | 534·17 | 535·10 | 534·43 | ·47 | ·315 |
|  | 16 | 2 | 4½ | 292 | 3 | 97 | 531·39 | 536·54 | 532·26 | 532·01 | 534·08 |  | 534·24 |  |  |
|  |  |  |  |  | 8 | 69 |  |  |  |  |  |  |  |  |  |
|  | 17 | 2 | 5½ | 48 | .. | .. | 530·83 | 536·53 | – | .. | 533·17 |  | 533·10 |  |  |
| 13 | 18 | 2 | 5½ | 114 | 3 | 35 | 531·43 | 536·53 | 532·56 | 532·31 | 533·79 | 535·01 | 533·90 | ·91 | ·17 |
|  | 19 | 2 | 6 | 32 | 2 | 38 | 531·28 | 536·48 | 532·23<br>535·00 | 532·11 | 533·82 |  | 533·16 |  |  |
|  |  |  |  |  | 5 | 73 |  |  |  |  |  |  |  |  |  |
| 14 | 20 | 2 | 6 | 278 | 2 | 58 | 530·05 | 536·45 | 531·85 | 531·65 | 532·62 | 534·92 | 534·44 | ·26 | ·155 |
|  | 21 | 2 | 6½ | 150 | – | " | 531·66 | 536·36 | 531·60 | 531·41 | 533·23 |  | 533·04 |  |  |
|  |  |  |  |  | 2 | 58 |  |  |  |  |  |  |  |  |  |
|  |  | 2 | 7 | 10 | No. 1 Under Tunnel |  |  |  |  |  |  |  |  |  |  |
|  | 22 | 2 | 7½ | 75 | 3 | 58 | 529·68 | 536·28 | 532·73 | 532·58 | 532·95 | 534·76 | 532·32 | 2·21 | ·10 |
|  | 23 | 3 | ½ | 154 | 4 | 80 | 531·07 | 535·97 | 532·22 | 532·17 | 532·74 | 534·41 | 533·08 | 1·13 | ·215 |
|  | 24 | 3 | 1 | 27 | 2 | 10 | 530·32 | 535·97 | 532·83 | 532·61 | 532·98 |  | 532·88 |  |  |
|  |  |  |  |  | 6 | 90 |  |  |  |  |  |  |  |  |  |
|  | 25 | 3 | 2 | 325 | - | 51 | 530·48 | 535·68 | 534·81 | 534·69 | 534·56 | 534·10 | 534·75 | Nil |  |
| 18 | 26 | 3 | 2½ | 320 | 4 | " | 529·12 | 535·62 | 532·69 | 532·31 | 533·66 | 534·04 | 533·91 | Nil. |  |
|  |  | 3 | 3 | 260 | No. 4 Masonry Bridge of 3 Vents. |  |  |  |  |  |  |  |  |  |  |
|  | 27 | 3 | 3½ | 200 | 9 | 16 | 530·93 | 535·28 | " | " | 533·61 | 533·68 | 533·75 | ·23 | ·46 |
|  | 28 | 3 | 4 | 235 | 3 | 45 | 529·94 | 535·24 | 532·76 | 532·67 | 532·78 |  | 532·80 |  |  |
|  |  |  |  |  | 12 | 61 |  |  |  |  |  |  |  |  |  |
| 20 | 29 | 3 | 5 | 60 | 3 | 74 | 529·46 | 535·24 | 531·97 | 531·85 | 534·27 | 533·63 | 534·24 | Nil |  |
|  | 30 | 3 | 5 | 197 | 2 | 78 | 528·34 | 535·24 | 531·36 | 531·27 | 531·73 | 533·63 | 532·06 | 1·37 | ·22 |
|  | 31 | 3 | 6 | 25 | 5 | 91 | 530·21 | 535·01 | 530·13 | 530·02 | 530·90 |  | 530·77 |  |  |
|  |  |  |  |  | 8 | 69 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
| 533·50 | 27 ft | Pipe | Masonry | 13 | 3" | 531·40 | A |
| 534·00 | 27 ft | Pipe | Palmyrah Spout | 9 | 3" | 531·35 | A |
| 533·74 | 27 ft | Pipe | Masonry | 10 | 4" | 530·90 | A |
|  |  |  | Masonry | 20 |  |  |  |
|  |  |  | Masonry flushed up | 10 |  |  |  |
| 533·00 | 27 ft | Pipe | Masonry | 30 | 3" | 530·70 | A |
|  |  |  | Masonry | 10 |  |  |  |
| 533·69 | 27 ft | Pipe | Masonry | 16 | 3" | 530·30 | A |
|  |  |  | Masonry | 20 |  |  |  |
| 531·82 | 27 ft | Pipe | Masonry | 13 | 3" | 530·00 | A |
| 532·58 | 27 ft. | Pipe | Masonry Govt: sluice | 12 | 3" | 529·80 | A |
|  |  |  | Cocoanut Spout | 8 |  |  |  |
| 533·30 | 27 ft | Pipe | Cocoanut Spout | 9 | 3" | 529·50 | A |
| 532·66 | 27 ft | Pipe | Cocoanut Spout | 11 | 3" | 529·50 | A |
| 532·75 | 27 ft | Pipe | Masonry Govt sluice | 12 | 3" | 529·45 | A |
|  |  |  | Cocoanut Spout | 9 |  |  |  |
| 533·00 | 27 ft | Pipe | Masonry Govt; sluice | 12 | 3" | 529·40 | A |
| 531·26 | 27 ft. | Pipe | Masonry | 20 | 3" | 529·40 | A |
|  |  |  | Masonry Govt: sluice | 12 |  |  |  |

x 4

8 B

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 3 | 6 | 265 | 2 | 81 | 529·91 | 535·01 | 531·25 | 531·24 | 532·23 | 533·48 | 532·18 | 1·16 | ·31 |
| 33 | 3 | 6½ | 10 | 5 | 41 | 530·51 | 534·91 | 531·18 | 531·00 | 532·21 |  | 532·08 |  |  |
| 34 | 3 | 7 | 10 | 5 | 65 | 531·06 | 534·96 | 531·30 | 531·24 | 531·47 |  | 531·49 |  |  |
|  |  |  |  | 12 | 87 |  |  |  |  |  |  |  |  |  |
| 35 | 3 | 7½ | 66 | 37 | 4 | 528·56 | 534·66 | 528·75 | 528·60 | 529·66 |  | 528·49 |  |  |
| 36 | 4 | - | 60 | 8 | 82 | 530·26 | 534·66 | 531·40 | 531·33 | 531·51 | 533·02 | 531·17 | 1·65 | ·522 |
|  |  |  |  | 46 | 86 |  |  |  |  |  |  |  |  |  |
| 37 | 4 | ½ | 130 | 3 | 70 | 528·21 | 534·61 | 530·90 | 530·62 | 530·76 |  | 530·72 |  | ·202 |
| 38 | 4 | 1 | 117 | 1 | 98 | 530·22 | 534·58 | 530·93 | 531·78 | 531·18 | 532·92 | 532·06 | ·66 |  |
|  |  |  |  | 5 | 68 |  |  |  |  |  |  |  |  |  |
|  | 4 | 2½ | 150 | No 5 Masonry Bridge of 4 arches. |  |  |  |  |  |  |  |  |  |  |
| 39 | 4 | 3 | 27 | 3 | 25 | 529·71 | 536·21 | 529·58 | 529·44 | 531·36 |  | 531·02 |  | ·38 |
| 40 | 4 | 3½ | 245 | 6 | 45 | 528·54 | 536·09 | 530·44 | 529·91 | 531·79 | 532·39 | 531·34 | ·35 |  |
|  |  |  |  | 9 | 70 |  |  |  |  |  |  |  |  |  |
| 41 | 4 | 5 | 200 | 4 | 49 | 526·99 | 533·50 | 528·64 | 528·55 | 527·93 |  | 527·90 |  | ·42 |
| 42 | 4 | 5½ | 260 | 3 | 34 | 527·24 | 533·64 | 529·78 | 529·60 | 529·68 | 533·12 | 529·65 | 2·27 |  |
| 43 | 4 | 6 | 225 | 7 | 35 | 527·44 | 533·84 | 528·78 | 528·68 | 528·60 |  | 528·34 |  |  |
| 44 | 4 | 6 | 300 | 16 | 86 | 528·58 | 533·81 | 527·58 | 527·78 | 528·36 |  | 527·12 |  |  |
|  |  |  |  | 30 | 4 |  |  |  |  |  |  |  |  |  |
| 45 | 4 | 7 | 50 | 17 | 22 | 526·74 | 533·64 | 530·37 | 530·24 | 530·44 |  | 530·32 |  | ·415 |
| 46 | 4 | 7½ | 30 | 13 | 66 | 528·67 | 533·42 | 529·65 | 529·75 | 528·45 | 531·66 | 527·12 | 3·63 |  |
| 47 | 5 | - | 228 | 10 | 16 | 525·30 | 533·65 | 527·20 | 526·38 | 527·73 |  | 526·58 |  |  |
|  |  |  |  | 41 | 4 |  |  |  |  |  |  |  |  |  |
| 48 | 5 | - | 272 | 3 | 31 | 528·95 | 533·55 | 529·19 | 528·77 | 528·23 |  | 528·25 |  | ·25 |
| 49 | 5 | ½ | 168 | 6 | 7 | 527·97 | 533·52 | 528·87 | 528·73 | 529·28 | 531·77 | 529·49 | 2·08 |  |
| 50 | 5 | ½ | 328 | 2 | 57 | 528·20 | 533·45 | 530·03 |  | 529·28 |  | 529·18 |  |  |
|  |  |  |  | 11 | 97 |  |  |  |  |  |  |  |  |  |
|  | 5 | 1 | 10 | No 2 Under Channel |  |  |  |  |  |  |  |  |  |  |
| 51 | 5 | 1½ | 113 | 6 | 85 | 529·04 | 533·39 | – | – | 529·53 | 531·60 | 529·37 | 2·03 | ·19 |
| 52 | 5 | 1½ | 219 | 2 | 42 | 529·40 | 533·35 | – | – | 529·56 |  | 529·09 |  |  |
|  |  |  |  | 9 | 27 |  |  |  |  |  |  |  |  |  |
| 53 | 5 | 2½ | 60 | 2 | 16 | 526·99 | 533·29 | – | – | 531·91 | 531·55 | 531·36 | Nil |  |

|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
| 531·50 | 27 ft | Pipe | Masonry<br>Govt:sluice | 12 | 4" | 529·20 | B |
|  |  |  | Masonry | 15 |  |  |  |
|  |  |  | Masonry | 8 |  |  |  |
|  |  |  | Masonry | 20 |  |  |  |
| 530·42 | 27 ft | Pipe | Masonry<br>Govt:sluice | 12 | 7" | 529·15 | A |
|  |  |  | Masonry | 16 |  |  |  |
| 531·31 | 27 ft | Pipe | Masonry<br>Govt:sluice | 12 | 3" | 529·10 | A |
|  |  |  | Masonry<br>Govt:sluice | 12 |  |  |  |
| 531·40 | 27 ft | Pipe | Masonry<br>Govt:sluice | 12 | 5" | 528·60 | A |
|  |  |  | Palmyrah Spout | 20 |  |  |  |
| 528·65 | 27 ft | Pipe | Masonry | 12 | 5" | 528·40 | B |
|  |  |  | Masonry<br>Govt:sluice | 12 |  |  |  |
|  |  |  | Masonry | 16 |  |  |  |
|  |  |  | Palmyrah Spout | 7 |  |  |  |
| 529·32 | 27 ft | Pipe | Palmyrah Spout | 13 | 5" | 528·25 | B |
|  |  |  | Broken pipe | 11 |  |  |  |
|  |  |  | Cocoanut spout | 12 |  |  |  |
| 528·74 | 27 ft | Pipe | Masonry<br>Govt:sluice | 12 | 3" | 528·00 | B |
|  |  |  | Blocked up |  |  |  |  |
| 528·87 | 27 ft | Pipe | Masonry | 20 | 3" | 527·90 | A |
|  |  |  | Masonry | 15 |  |  |  |
| 530·46 | 27 ft | Pipe | Masonry<br>Govt:sluice | 12 | 3" | 527·85 | A |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | 5 | 3 | 40 | 11 | 41 | 528.01 | 533.16 | 528.99 | 528.82 | 528.72 | 531.60 | 527.39 | 3.55 | .21 |
| 55 | 5 | 3 | 140 | 1 | 36 | 527.71 | 533.16 | | 528.57 | 531.17 | 531.62 | 531.12 | Nil | |

## Sircar Peria Agraharam

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 56 | 5 | 3 | 150 | 7 | 2 | 527.56 | 533.16 | 529.68 | 529.50 | 531.11 | | 530.77 | | |
| 57 | 5 | 3 | 195 | - | 52 | 527.21 | 533.11 | 531.07 | 530.57 | 531.17 | 531.36 | 531.27 | Nil | |
| | | | | 7 | 56 | | | | | | | | | |
| 58 | 5 | 3 | 273 | 13 | 26 | 527.75 | 533.10 | | 529.79 | 530.39 | 531.36 | 529.57 | 1.59 | .285 |
| 59 | 5 | 4 | 225 | 3 | 6 | 528.12 | 533.07 | | 529.85 | 530.63 | 531.34 | 531.26 | Nil | |
| - | 5 | 4½ | · | No. 6 Masonry Bridge 4 Vents | | | | | | | | | | |
| - | 5 | 4½ | 125 | No. 3 Outlet – No of Vents 4 (5½'×3¾') Sill level | | | | | | | | | | |
| 60 | 5 | 5 | 160 | 1 | 62 | 527.77 | 532.62 | 530.34 | 530.27 | 531.19 | 531.09 | 530.84 | Nil | |
| 61 | 5 | 6 | 14 | 3 | 78 | 527.09 | 532.79 | 528.78 | 528.50 | 529.75 | " | 529.80 | | |
| | | | | 5 | 40 | | | | | | | | | |
| 62 | 5 | 6 | 150 | 2 | " | 526.29 | 532.79 | 529.28 | 528.48 | 528.75 | 531.07 | 527.63 | 3.24 | .52 |
| 63 | 5 | 6 | 265 | 16 | 40 | 527.21 | 532.76 | 528.08 | 527.87 | 527.78 | " | 524.48 | | |
| 64 | 5 | 6 | 325 | 29 | 89 | 527.25 | 532.75 | 528.[illegible] | " | 526.13 | – | 524.31 | | |
| 65 | 5 | 6½ | 20 | 16 | 69 | " | " | " | " | " | " | " | | |
| | | | | 64 | 98 | | | | | | | | | |
| 66 | 5 | 7 | 40 | 5 | 67 | 527.76 | 532.74 | " | " | 529.55 | | 529.38 | | |
| 67 | 5 | 7 | 300 | 15 | 68 | 527.24 | 532.74 | " | 529.76 | 528.75 | 531.01 | 527.02 | 3.81 | .325 |
| 68 | 5 | 7½ | 115 | 4 | 49 | 528.38 | 532.72 | 529.31 | 529.13 | 529.81 | | 529.58 | | |
| | | | | 25 | 74 | | | | | | | | | |
| 69 | 6 | " | 15 | 20 | 53 | 529.49 | 532.53 | 529.56 | " | 527.57 | | 527.51 | | |
| 70 | 6 | · | 70 | 5 | 54 | 528.56 | 532.51 | " | 525.89 | 528.14 | | 528.04 | 1.91 | |
| 71 | 6 | ½ | 190 | 13 | 91 | 528.08 | 532.48 | 529.64 | " | 528.92 | 530.78 | 528.77 | | |
| 72 | 6 | ½ | 260 | 49 | 38 | 527.91 | 532.46 | 529.51 | " | 529.14 | | 528.88 | | |
| | | | | 89 | 36 | | | | | | | | | |

12B

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 527.85 | 27ft | Pipe | Masonry<br>Govt: sluice | 1 | 3" | 26<br>527.85 | A |
| 530.82 | 27ft | Pipe | Masonry | 1 | 3" | 527.84 | A |
| | | | Masonry | 1 | | | |
| 530.77 | 27ft. | Pipe | Palmyrah tube | 9 | 5" | 527.83 | A |
| 528.82 | 27ft | Pipe | Masonry | 18 | 4" | 527.82 | A |
| 529.51 | 27 ft | Pipe | Masonry<br>Govt: sluice | 12 | 3" | 527.75 | A |
| 527.11. | | | | | | | |
| 530.34 | 27 ft | Pipe | Masonry | 15 | 4" | 527.70 | A |
| | | | Cut stone | 16 | | | |
| 527.40 | 27 ft | Pipe | Iron pipe | 11 | 7" | 527.40 | B |
| | | | Masonry | 19 | | | |
| | | | Masonry | 20 | | | |
| | | | Wooden trunk Bridge | 25 | | | |
| | | | Masonry | 16 | | | |
| 528.83 | 27ft | Pipe | Masonry<br>Govt sluice | 12 | 4" | 527.20 | B |
| | | | Masonry<br>Govt: sluice | 12 | | | |
| | | | Masonry | 23 | | | |
| 528.10 | 27ft | Pipe | Masonry | 22 | 9" | 527.20 | B |
| | | | Masonry | 20 | | | |
| | | | Masonry | 22 | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73 | 6 | 1 | 130 | 15 | 34 | 529·48 | 532·53 | 529·56 |  | 527·57 |  | 527·51 |  |  |  |  |  | Masonry Govt: sluice | 12 |  |  |  |
| 74 | 6 | 1 | 340 | 14 | 62 | 528·56 | 532·51 |  | 525·89 | 528·14 |  | 528·04 |  |  |  |  |  | Blocked up Cutstone | 15 |  |  |  |
| 75 | 6 | 1½ | 33 | 2 | 76 | 528·08 | 532·48 | 529·64 |  | 528·92 | 530·78 | 528·77 | 1·81 | ·47 | 528·13 | 27ft | Pipe | Cutstone | 50 | 6" | 527·00 | B |
| 76 | 6 | 1½ | 150 | 3 | 40 | 527·91 | 532·46 | 529·51 |  | 529·14 |  | 528·88 |  |  |  |  |  | Potsluice | 50 |  |  |  |
|  |  |  |  | 36 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 77 | 6 | 1½ | 210 | 7 | 17 | 528·01 | 532·41 |  |  | 529·96 |  | 529·85 |  |  |  |  |  | Masonry | 20 |  |  |  |
| 78 | 6 | 1½ | 220 | 5 | 75 | 528·01 | 532·40 | 530·11 |  | 529·84 | 530·70 | 530·04 | Nil |  | 529·64 | 27ft | Pipe | Potsluice | 15 | 6" | 526·90 | A |
|  |  |  |  | 12 | 92 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79 | 6 | 2 | 200 | 3 | 87 | 527·91 | 532·31 | 529·10 |  | 529·46 | 530·62 | 529·30 | 1·12 | ·245 | 528·60 | 27ft | Pipe | Masonry | 20 | 3" | 526·85 | A |
| 80 | 6 | 2½ | 50 | 4 | 95 | 527·10 | 532·30 |  | 529·27 | 529·24 |  | 529·17 |  |  | „ | „ |  | Masonry Govt: sluice | 12 |  |  |  |
|  |  |  |  | 8 | 82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 81 | 6 | 2½ | 320 | 4 | 93 | 526·34 | 532·29 |  | 527·31 | 528·41 |  | 528·50 |  |  | „ | „ |  | Masonry | 19 |  |  |  |
| 82 | 6 | 3 | 80 | 6 | 53 | 525·53 | 532·28 |  | 528·31 | 529·44 | 530·58 | 529·43 | ·93 | ·417 | 528·50 | 27ft | Pipe | Masonry | 18 | 5" | 526·80 | B |
| 83 | 6 | 3 | 200 | 2 | 57 | 527·11 | 532·26 |  | 528·25 | 528·98 |  | 528·95 |  |  | „ | „ |  | Masonry | 60 |  |  |  |
| 84 | 6 | 3 | 260 | 5 | 92 | 527·15 | 532·25 |  | 530·76 | 529·74 |  | 529·45 |  |  | „ | „ |  | Potsluice | 18 |  |  |  |
|  |  |  |  | 19 | 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Brahmana Peria Agraharam |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85 | 6 | 3½ | 45 | 5 | 19 | 527·76 | 532·21 |  | 529·52 | 529·33 |  | 529·77 |  |  | „ | „ |  | Masonry | 40 |  |  |  |
| 86 | 6 | 3½ | 95 | 2 | 64 | 527·65 | 532·20 | 529·94 |  | 530·36 | 530·51 | 529·76 | ·55 |  | 529·26 | 27ft | Pipe | Masonry Govt sluice portion washed away | 12 | 6" | 526·75 | B |
| 87 | 6 | 4 | 15 | 8 | 77 | 529·88 | 532·18 | 529·93 | 529·24 | 529·87 |  | 529·30 |  |  | „ | „ |  | Masonry Govt: sluice | 12 |  |  |  |
|  |  |  |  | 16 | 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88 | 6 | 4 | 27 | 8 | 19 | 528·63 | 532·18 |  | 527·31 | 527·63 |  | 526·19 |  |  | „ | „ |  | Masonry | 17 |  |  |  |
| 89 | 6 | 4 | 63 | 9 | 2 | 527·36 | 532·11 |  | 527·61 | 528·74 | 530·42 | 528·74 | 1·48 | ·323 | 528·00 | 27ft | Pipe | Masonry | 28 | 4" | 526·70 | A |
|  |  |  |  | 17 | 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90 | 6 | 4½ | 250 | 31 | 44 | 527·78 | 532·08 |  |  |  |  |  |  |  | „ | „ |  | Masonry Blocked up | 22 |  |  |  |
| 91 | 6 | 4½ | 290 | 29 | 6 | 527·48 | 532·08 |  | 524·90 | 523·76 |  | 520·66 |  |  | „ | „ |  | Masonry | 20 |  |  |  |
| 92 | 6 | 5 | 120 | 14 | 80 | 528·57 | 532·07 | 527·87 | 527·69 | 527·89 | 530·39 | 527·63 | 2·50 |  | 527·45 | 27ft | Pipe | Masonry Govt: sluice | 12 | 8" | 526·60 | B |
| 93 | 6 | 5½ | 90 | 7 | 87 | 528·45 | 532·05 |  | 528·27 | 528·75 |  | 528·20 |  |  | „ | „ |  | Masonry | 16 |  |  |  |
|  |  |  |  | 83 | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94 | 6 | 5½ | 240 | 6 | 88 | 527·70 | 532·05 |  | 529·61 | 529·50 | 530·37 | 529·59 | ·68 | ·61 | 528·80 | 27ft | Pipe | Masonry Govt: sluice | 12 | 8" | 526·55 | B |
| 95 | 6 | 6 | „ | 2 | 66 | 527·48 | 531·93 |  | 528·47 | 529·62 |  | 529·70 |  |  | „ | „ |  | Masonry | 35 |  |  |  |
| 96 | 6 | 6 | 210 | 5 | 83 | 527·89 | 531·89 |  | 528·16 | 529·21 |  | 528·51 |  |  | „ | „ |  | Masonry | 17 |  |  |  |
| 97 | 6 | 6 | 245 | 7 | 89 | 527·89 | 531·89 | 528·15 |  | 526·56 |  | 526·64 |  |  | „ | „ |  | Palmyrah spout | 40 |  |  |  |
|  |  |  |  | 26 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

97

VI

7

Facing

8

Heading

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | 6 | 6½ | 30 | 7 | 68 | 527.63 | 531.88 |  | 528.38 | 528.11 |  | 528.21 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 30 | 〃 | 〃 |  |
| 99 | 6 | 6½ | 180 | 2 | 94 | 527.73 | 531.88 |  | 529.27 | 529.17 | 530.21 | 529.17 | .84 | .287 | 528.25 | 27 ft | Pipe | Masonry Govt sluice | 12 | 4" | 526.50 | A |
|  |  |  |  | 10 | 62 |  |  |  |  |  |  |  |  |  | 〃 | 〃 |  |  | 〃 | 〃 | 〃 |  |
| 100 | 6 | 7 | 70 | 1 | 19 | 526.97 | 531.87 |  |  | 530.62 | 530.20 | 530.67 | Nil |  | 529.17 | 27 ft | Pipe | Masonry Govt sluice | 12 | 3" | 526.50 | A |
| 101 | 6 | 7 | 213 | 9 | 13 | 526.96 | 531.86 |  | 527.61 | 529.02 | 〃 | 528.11 |  |  | 〃 | 〃 | 〃 | Masonry | 18 | 〃 | 〃 | 〃 |
| 102 | 6 | 7 | 285 | 〃 | 57 | 527.36 | 531.86 | 529.63 |  | 529.63 | 530.19 | 529.68 | .31 | .345 | 528.93 | 27 ft | Pipe | Potsluice | 20 | 4" | 526.50 | A |
|  |  |  |  | 9 | 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 103 | 6 | 7½ | 183 | 〃 | 86 | 527.86 | 531.86 | 529.06 |  | 530.31 | 530.19 | 530.19 | Nil |  | 528.69 | 27 ft | Pipe | Potsluice | 10 | 3" | 526.45 | A |
|  | 7 | 〃 | 125 | No. 3 Under Tunnel |  |  |  |  |  |  |  |  | 〃 |  | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 |  |
| 104 | 7 | 〃 | 130 | 3 | 39 | 526.54 | 531.84 | 529.09 |  | 529.16 | 530.18 | 529.46 | .52 | .33 | 528.71 | 27 ft | Pipe | Potsluice | 15 | 4" | 526.40 | A |
| 105 | 7 | 1 | 〃 | 6 | 50 | 526.78 | 531.78 | 528.96 |  | 529.06 |  | 529.33 |  |  | 〃 | 〃 | 〃 | Masonry Govt sluice | 12 | 〃 | 〃 |  |
|  |  |  |  | 9 | 89 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 106 | 7 | 1 | 20 | 8 | 40 | 526.21 | 531.76 |  | 527.09 | 527.61 | 530.11 | 524.79 | 3.71 | .14 | 526.40 | 27 ft | Pipe | Palmyra spout | 22 | 3" | 526.40 | A |
|  | 7 | 1 | 242 | No. 4 Tunnel |  |  |  |  |  |  |  |  |  |  | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 |  |
| 107 | 7 | 1 | 286 | 8 | 29 | 526.44 | 531.74 |  | 528.04 | 528.18 | 〃 | 527.72 | 〃 |  | 〃 | 〃 | 〃 | Masonry Govt sluice | 12 | 〃 | 〃 | 〃 |
| 108 | 7 | 1 | 310 | 4 | 92 | 526.34 | 531.74 |  | 527.69 | 527.89 | 530.09 | 528.12 | 1.77 | .412 | 527.32 | 27 ft | Pipe | Masonry | 20 | 5" | 526.40 | B |
|  | 7 | 1½ | 〃 | No. 3 Gauge R. L. of Zero point |  |  |  |  |  |  |  |  | 526.34 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 |  |
|  | 7 | 1½ | 85 | No. 7 Masonry bridge of 4 vents |  |  |  |  |  |  |  |  |  |  | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 | 〃 |  |
| 109 | 7 | 1½ | 126 | 3 | 68 | 526.21 | 531.71 |  | 528.15 | 528.53 | 〃 | 528.51 | 〃 | 〃 | 〃 | 〃 | 〃 | Masonry | 10 |  |  |  |
| 110 | 7 | ½ | 195 | 3 | 70 | 526.26 | 531.66 | 526.53 | 526.51 | 527.23 | 〃 | 527.41 | 〃 | 〃 | 〃 | 〃 | 〃 | Masonry | 23 |  |  |  |
| 111 | 7 | ½ | 240 | 6 | 29 | 526.45 | 531.65 |  | 527.18 | 527.65 | 〃 | 528.03 | 〃 |  | 〃 | 〃 | 〃 | Masonry | 18 | 〃 | 〃 |  |
|  |  |  |  | 26 | 88 | Dabavoypollim |  |  |  |  |  |  |  |  | 〃 | 〃 | 〃 | Potsluice | 20 |  |  |  |
| 112 | 7 | 2 | 263 | 4 | 54 | 526.16 | 531.46 |  |  | 527.70 | 〃 | 527.58 |  |  |  |  |  | Potsluice | 12 |  |  |  |
| 113 | 7 | 2 | 313 | 4 | 78 | 526.01 | 531.41 | 527.88 |  | 528.33 | 〃 | 528.32 |  |  |  |  |  |  |  |  |  |  |
| 114 | 7 | 2½ | 272 | 2 | 43 | 526.49 | 531.39 |  | 528.77 | 529.24 | 529.74 | 528.31 | 1.23 | .275 | 527.51 | 27 ft | Pipe | Masonry | 25 | 4" | 526.25 | B |
|  |  |  |  | 11 | 75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115 | 7 | 3 | 53 | 2 | 13 | 526.26 | 531.36 | 528.27 |  | 529.54 | 529.72 | 529.24 | .26 | .15 | 528.00 | 27 ft | Pipe | Masonry | 20 | 3" | 526.20 | A |
| 116 | 7 | 3½ | 325 | 2 | 26 | 526.15 | 531.35 |  | 528.31 | 528.05 | 529.71 | 528.33 | 1.18 | .21 | 527.63 | 27 ft | Pipe | Masonry | 15 | 3" | 526.00 | A |
| 117 | 7 | 4½ | 174 | 5 | 72 | 525.54 | 531.32 | 527.54 | 527.17 | 527.89 |  | 526.49 |  |  | 〃 | 〃 | 〃 | Potsluice | 20 | 〃 | 〃 |  |
|  |  |  |  | 7 | 98 |  |  |  |  |  |  |  |  |  | 〃 | 〃 |  |  | 〃 |  |  |  |
| 118 | 7 | 4½ | 264 | 8 | 55 | 525.71 | 531.31 |  | 525.64 | 525.99 |  | 520.51 | 〃 |  | 〃 | 〃 | 〃 | Masonry | 16 |  |  |  |
| 119 | 7 | 5 | 123 | 9 | 6 | 525.21 | 531.31 |  | 525.99 | 526.26 | 529.68 | 526.31 | 3.17 | .34 | 526.00 | 27 ft | Pipe | Masonry Govt sluice | 12 | 4" | 525.80 | B |
| 120 | 7 | 5½ | 5 | 8 | 33 | 525.14 | 531.29 |  | 525.47 | 525.76 | 〃 | 525.80 | 〃 |  | 〃 | 〃 |  | Masonry | 20 | 〃 | 〃 |  |
|  |  |  |  | 25 | 94 |  |  |  |  |  |  |  |  |  | 4 | 3 | 3/4 | 18 2 | 3 | 3 | 4 | 2 |

15 13

9

~~Facing~~

17

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 121 | 7 | 5½ | 310 | " | " | " | | | | | | | | |
| 122 | 7 | 6 | 57 | 61 | 74 | 525.69 | 531.24 | " | 524.01 | 524.11 | | 516.84 | | |
| 123 | 7 | 6 | 82 | 28 | 70 | 526.57 | 531.14 | " | 524.97 | 524.21 | | | | |
| 124 | 7 | 6 | 100 | 12 | 83 | 526.69 | 531.14 | " | 525.84 | 524.21 | | 519.76 | | |
| 125 | 7 | 6 | 133 | 5 | 71 | 526.24 | 531.09 | " | 525.34 | 525.69 | 529.46 | 525.57 | 3.69 | |
| | | | | 108 | 98 | | | | | | | | | |
| | 7 | 6 | 256 | No 5 Under Tunnel. | | | | | | | | | | |
| 126 | 7 | 6½ | 5 | 2 | 7 | 526.93 | 531.08 | | 528.22 | 527.27 | 529.45 | 527.20 | 2.05 | .380 |
| 127 | 7 | 6½ | 132 | 10 | 47 | 526.23 | 531.08 | | 526.17 | 527.27 | | 526.82 | | |
| 128 | 7 | 6½ | 257 | 5 | 46 | 525.42 | 531.07 | 527.18 | 526.95 | 527.17 | | 526.10 | | |
| 129 | 7 | 7 | 160 | 7 | 31 | 525.06 | 531.06 | | 525.65 | 525.67 | | 524.18 | | |
| | | | | 25 | 31 | | | | | | | | | |
| 130 | 7 | 7 | 327 | 3 | 25 | 525.25 | 530.95 | | 527.62 | 528.31 | 529.33 | 528.53 | .60 | .153 |
| 131 | 7 | 7½ | 137 | 25 | 75 | 524.44 | 530.94 | | 524.63 | ~~526.38~~ | | ~~526.50~~ | | |
| 132 | 7 | 7½ | 160 | " | " | 525.67 | 530.89 | | ~~526.18~~ | ~~526.38~~ | 529.27 | ~~526.68~~ | ~~2.38~~ | .293 |
| 133 | 7 | 7½ | 180 | 14 | 91 | 525.47 | 530.89 | | ~~526.03~~ | ~~526.28~~ | | ~~523.98~~ | | |
| 1 | | | | 40 | 66 | | | | | | | | | |
| 134 | 7 | 7½ | 207 | 3 | 50 | 525.53 | 530.78 | | | 526.38 | | 526.53 | | |
| 135 | 7 | 7½ | 273 | 8 | 5 | 525.67 | 530.87 | | 526.18 | 526.38 | 529.26 | 526.69 | 2.38 | .293 |
| 136 | 7 | 7½ | 295 | 5 | 14 | 525.29 | 530.87 | | 526.03 | 526.28 | | 519.12 | | |
| | | | | 17 | 9 | | | | | | | | | |
| 137 | 8 | " | 141 | " | " | 524.29 | 530.84 | | 528.13 | 528.90 | | 529.89 | | |
| 138 | 8 | 1 | 34 | 8 | 52 | 525.28 | 530.78 | | 528.63 | 529.56 | 529.18 | 529.56 | Nil | |
| 139 | 8 | 1½ | 22 | " | " | 524.87 | 530.67 | 528.38 | | 529.18 | | 529.11 | | |
| | | | | 8 | 52 | | | | | | | | | |
| | 8 | 1½ | 93 | No 6 Under Tunnel | | | | | | | | | | |
| 140 | 8 | 1½ | 110 | 2 | 70 | 525.08 | 530.63 | | 526.86 | 527.91 | 529.03 | 528.76 | .77 | .125 |
| | 8 | 2½ | 60 | No 4 Outlet Upper Vents No 8 (2½'×3') Sill level 528.92 | | | | | | | | | | |
| 141 | 8 | 3 | 176 | 2 | 3 | 525.05 | 530.55 | | 529.36 | 528.88 | | 528.17 | | |
| 142 | 8 | 3½ | 20 | 5 | 48 | 524.68 | 530.53 | 527.41 | | 528.85 | 528.94 | 528.79 | Nil | |
| | | | | 7 | 57 | | | | | | | | | |
| 143 | 8 | 4 | 92 | 6 | 36 | 524.96 | 530.46 | | 526.14 | 527.19 | 528.87 | 527.69 | .98 | .238 |
| 144 | 8 | 4 | 128 | 2 | 53 | 524.90 | 530.45 | | 526.44 | 527.24 | | 526.45 | | |
| | | | | 8 | 89 | | | | | | | | | |
| 3 | 3 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |

29

18B

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Masonry<br>Blockdip | | | | |
| | | | Masonry | 20 | | | |
| | | | Masonry | 20 | | | |
| | | | Masonry | 20 | | | |
| 525.50 | 27 ft | Pipe | Masonry | 20 | 8" | 525.50 | B |
| 526.50 | 27 ft | Pipe | Masonry | 18 | 5" | 525.45 | B |
| | | | Masonry | 17 | | | |
| | | | Masonry | 18 | | | |
| | | | Masonry | 18 | | | |
| 527.25 | 27 ft | Pipe | Masonry<br>Goutspie | 12 | 3" | 525.25 | A |
| | | | Masonry | 17 | | | |
| ~~525.95~~ | 27 ft | Pipe | Masonry<br>Blockdip | ~~20~~ 14 | 4" | 525.23 | B |
| | | | Masonry | ~~20~~ 18 | | | |
| | | | Masonry | 17 | | | |
| 525.93 | 27 ft | Pipe | Masonry | 20 | 4" | 525.22 | B |
| | | | Masonry | 20 | | | |
| | | | Masonry | 16 | | | |
| 528.00 | 27 ft | Pipe | Masonry | 18 | 6" | 525.18 | A |
| | | | Masonry | 16 | | | |
| 527.00 | 27 ft | Pipe | Masonry | 18 | 3" | 525.15 | A |
| Lower Vents No 2 3'×2½' Sill level 523.25 & 523.42 respectively | | | | | | | |
| | | | Potsluice | 15 | | | |
| 527.44 | 27 ft | Pipe | Masonry | 18 | 5 | | A |
| 526.69 | 27 ft | Pipe | Masonry | 24 | 3" | 524.90 | A |
| | | | Masonry | 22 | | | |

4 3 ~~3~~4 1B 2 3 5 4 2

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 8 | 4½ | 150 | 11 | 12 | 524·55 | 530·35 | 526·10 | 525·77 | 526·41 | 19 | 523·22 | | |
| 146 | 8 | 4½ | 190 | 1 | 67 | 524·08 | 530·33 | 526·72 | 526·37 | 527·57 | | 527·72 | | |
| 147 | 8 | 4½ | 268 | 1 | 99 | 524·74 | 530·26 | 527·00 | | 527·74 | 528·71 | 527·49 | ·79 | ·458 |
| 148 | 8 | 5 | 224 | 2 | 36 | 524·35 | 530·25 | 526·32 | | 528·76 | | 527·37 | | |
| 149 | 8 | 5½ | 112 | 4 | 25 | 524·19 | 530·24 | 527·05 | | 527·38 | | 527·58 | | |
| | | | | 21 | 39 | | | | | | | | | |
| 150 | 8 | 6½ | 202 | 3 | 21 | 524·69 | 530·19 | 526·96 | 526·78 | 527·61 | 528·62 | 527·31 | 1·11 | ·148 |
| 151 | 8 | 7 | 248 | 1 | 58 | 524·33 | 530·18 | 526·85 | | 526·36 | | 526·55 | | |
| | | | | 4 | 79 | | | | | | | | | |
| 152 | 8 | 7 | 280 | 11 | 36 | 523·91 | 530·16 | | 525·01 | 525·94 | | 523·23 | | |
| 153 | 8 | 7½ | 87 | 2 | 11 | 524·59 | 530·14 | 526·75 | | 526·76 | | 526·71 | | |
| 154 | 8 | 7½ | 125 | 3 | 75 | 524·24 | 530·14 | 526·61 | | 526·12 | 528·57 | 526·76 | 1·61 | ·34 |
| 155 | 8 | 7½ | 222 | 2 | 76 | 524·27 | 530·12 | | 524·93 | 525·86 | | 520·13 | | |
| | | | | 19 | 98 | | | | | | | | | |
| 156 | 9 | " | 53 | 3 | 7 | 524·54 | 530·04 | | 526·56 | 526·55 | 528·48 | 526·53 | 1·75 | ·272 |
| 157 | 9 | " | 155 | 9 | 25 | 524·12 | 530·02 | | 526·41 | 526·28 | | 526·35 | | |
| | | | | 12 | 32 | | | | | | | | | |
| 158 | 9 | - | 285 | 4 | 52 | 523·99 | 529·89 | | 524·91 | 524·88 | 528·35 | 521·13 | 4·28 | ·345 |
| 159 | 9 | ½ | 77 | 5 | 24 | 524·52 | 529·87 | 525·47 | | 526·20 | | 526·12 | | |
| 160 | 9 | ½ | 220 | 20 | 12 | 523·76 | 529·84 | | 524·16 | 524·24 | | 516·24 | | |
| | | | | 29 | 88 | Vayirapolium | | | | | | | | |
| | 9 | ½ | 282 | No 8 Masonry bridge of 4 Vents. | | | | | | | | | | |
| 161 | 9 | 1 | 150 | 26 | 99 | 525·37 | 529·82 | | 523·31 | 521·03 | | 516·12 | | |
| 162 | 9 | 1 | 290 | 3 | 82 | 523·92 | 529·82 | 525·86 | 525·75 | 526·15 | | 526·12 | | |
| 163 | 9 | 1 | 330 | 2 | 74 | 524·15 | 529·80 | | 525·67 | 526·19 | | 526·24 | | |
| 164 | 9 | 1½ | 78 | 1 | 62 | 524·46 | 529·76 | 525·54 | | 526·16 | | 526·11 | | |
| 165 | 9 | 1½ | 152 | 2 | 92 | 524·42 | 529·72 | 525·55 | | 526·62 | 528·17 | 526·65 | 1·32 | ·62 |
| 166 | 9 | 1½ | 165 | 4 | 5 | 524·42 | 529·72 | 525·31 | | 526·27 | | 526·47 | | |
| 167 | 9 | 1½ | 307 | 4 | 88 | 524·57 | 529·62 | | 525·52 | 525·98 | | 525·97 | | |
| | | | | 47 | 2 | | | | | | | | | |
| 168 | 9 | 2 | 150 | 1 | 95 | 524·11 | 529·61 | | 525·95 | 525·72 | | 525·27 | | |
| 169 | 9 | 2 | 175 | 3 | 49 | 523·91 | 529·61 | | | | | | | |
| 170 | 9 | 2 | 195 | 4 | 7 | 523·57 | 529·57 | 526·67 | 525·75 | 525·87 | 528·02 | 526·41 | 1·35 | ·492 |
| 171 | 9 | 2½ | 30 | 23 | 93 | 524·05 | 529·55 | | 523·43 | 520·11 | | 514·03 | | |
| | | | | 33 | 44 | | | | | | | | | |
| 3 | 3 | 2 | 2 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Masonry | 21 | | | | |
| | | | Masonry | 20 | | | | |
| 526·74 | 27 ft | Pipe | Masonry | 20 | 6" | 524·65 | B | 90B |
| | | | Masonry | 21 | | | | |
| | | | Masonry | 19 | | | | |
| 526·56 | 27 ft | Pipe | Masonry | 20 | 3" | 524·40 | A | |
| | | | Masonry | 22 | | | | |
| | | | Masonry | 18 | | | | |
| | | | Masonry | 18 | | | | |
| 526·00 | 27 ft | Pipe | Masonry | 24 | 4" | 524·20 | B | |
| | | | Masonry | 17 | | | | |
| 526·00 | 27 ft | Pipe | Masonry | 23 | 4" | 524·10 | A | |
| | | | Masonry Govt: sluice | 12 | | | | |
| 525·40 | 27 ft. | Pipe | Masonry | 14 | 4" | 524·05 | B | |
| | | | Masonry | 17 | | | | |
| | | | Masonry | 23 | | | | |
| | | | Masonry | 23 | | | | |
| | | | Masonry Govt Sluice | 12 | | | | |
| | | | Masonry | 22 | | | | |
| | | | Masonry | 24 | | | | |
| 526·00 | 27 ft | Pipe | Masonry | 17 | 8" | 523·90 | B | |
| | | | Masonry | 17 | | | | |
| | | | Masonry | 16 | | | | |
| | | | Masonry Govt: sluice | 12 | | | | |
| | | | Pt sluice set in bed | 20 | | | | |
| 525·72 | 27 ft | Pipe | Masonry Govt sluice | 12 | 6" | 523·85 | B | |
| | | | Masonry | 20 | | | | |
| 4 | 3 | 3 4 | 132 | 3 | 5 | 4 | 2 | |

145 8 4½ 150 11 12 524·55 530·35 52 6·10

9)

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 172 | 9 | 2½ | 146 | 2 | 67 | 523·75 | 529·65 | 525·26 | | 526·30 | | 525·53 | | |
| 173 | 9 | 2½ | 178 | 4 | 24 | 523·66 | 529·65 | 525·70 | | 525·98 | | 525·93 | 2·10 | ·23 |
| 174 | 9 | 2½ | 292 | 2 | 5 | 523·63 | 529·53 | 526·33 | 525·72 | 526·26 | 527·98 | 525·68 | | |
| 175 | 9 | 2½ | 315 | 2 | 36 | 523·55 | 529·57 | 526·43 | | 526·33 | | 526·18 | | |
| 176 | 9 | 3 | 15 | 5 | 86 | 523·70 | 529·50 | 526·57 | | 525·72 | | 524·30 | | |
| 177 | 9 | 3 | 40 | 1 | 57 | 523·57 | 529·49 | | 524·77 | 524·30 | | 523·81 | | |
| 178 | 9 | 3 | 76 | 13 | 1 | 523·74 | 529·49 | | 523·75 | 521·97 | | 524·84 | | |
| | | | | 31 | 73 | | | | 524·63 | 524·18 | | 515·10 | | |
| 179 | 9 | 3 | 165 | 27 | 98 | 523·93 | 529·61 | | | 524·39 | 527·92 | 522·42 | 4·12 | ·442 |
| 180 | 9 | 3 | 195 | 3 | 12 | 523·87 | 529·47 | 524·82 | | | | 521·04 | | |
| 181 | 9 | 3 | 253 | 14 | 7 | 523·96 | 529·46 | | 523·94 | 523·37 | | | | |
| | | | | 45 | 87 | | | | | 526·67 | | 526·57 | | ·205 |
| 182 | 9 | 3½ | 50 | 2 | 75 | 523·60 | 529·60 | 525·11 | 526·09 | 526·64 | 527·80 | 526·69 | ·91 | |
| 183 | 9 | 3½ | 202 | 2 | 95 | 524·35 | 529·35 | 526·11 | | 526·44 | | 526·86 | | |
| 184 | 9 | 4½ | 15 | 1 | " | 523·57 | 524·27 | 527·83 | | | | | | |
| 185 | 9 | 5 | 13 | " | 66 | 525·23 | 529·13 | " | | | | | | |
| | | | | 7 | 35 | | | | 525·50 | 526·36 | | 526·64 | ·59 | ·284 |
| 186 | 9 | 5½ | 252 | 6 | 51 | 526·10 | 529·00 | | 526·03 | 526·71 | 527·46 | 526·67 | | |
| 187 | 9 | 5½ | 292 | " | " | 523·34 | 529·10 | | 525·49 | 526·35 | | 526·42 | | |
| 188 | 9 | 6½ | 217 | 3 | 4 | 523·96 | 528·86 | | | | | 525·64 | | |
| | | | | 9 | 65 | | | | 524·87 | 525·61 | | | 1·19 | ·122 |
| 189 | 9 | 6½ | 312 | 4 | 61 | 524·65 | 528·85 | | 525·11 | 525·53 | 527·31 | 525·72 | | |
| 190 | 9 | 6½ | 220 | 4 | 75 | 524·00 | 528·85 | | | | | | ·85 | ·175 |
| | | | | 9 | 36 | | | | 526·85 | 527·07 | 527·29 | 526·24 | | ·36 |
| 191 | 9 | 6½ | 346 | 6 | 20 | 523·58 | 525·63 | | 526·33 | 526·84 | 637·28 | 525·84 | 1·24 | |
| 192 | 9 | 7 | 217 | 3 | 17 | 523·57 | 525·82 | | 525·62 | 525·48 | | 525·39 | | |
| 193 | 9 | 7 | 230 | 3 | 86 | 523·92 | 525·82 | | | 525·80 | | 525·19 | | |
| 194 | 9 | 7½ | 57 | 1 | 39 | 523·79 | 525·79 | 526·12 | | 525·69 | | 525·40 | | |
| 195 | 9 | 7½ | 277 | 0 | 0 | 523·88 | 525·78 | 526·09 | | 525·66 | | 524·84 | | |
| 196 | 10 | " | 45 | 9 | 62 | 523·53 | 525·68 | | 524·24 | 523·69 | | 521·67 | | |
| 197 | 10 | " | 87 | 1 | 40 | 523·62 | 525·67 | | | | | | | |
| | | | | 19 | 144 | | | | | | | | | |

99B

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Masonry | 17 | | | |
| | | | Masonry | 19 | | | |
| 525·20 | 27ft | Pipe | Masonry | 21 | 5" | 523·80 | B |
| | | | Masonry | 24 | | | |
| | | | Masonry | 17 | | | |
| | | | Masonry | 15 | | | |
| | | | Masonry | 21 | | | |
| | | | Masonry | 20 | | | |
| 523·80 | 27ft | Pipe | Masonry | 25 | 6" | 523·80 | B |
| | | | Masonry | 18 | | | |
| | | | Masonry | 20 | | | |
| 525·69 | 27ft | Pipe | Masonry | 18 | 3" | 523·75 | B |
| | | | Masonry | 14 | | | |
| | | | Masonry | 20 | | | |
| | | | Not in use | | | | |
| | | | Masonry | 18 | | | |
| 525·67 | 27ft | Pipe | Masonry | 20 | 4" | 523·60 | A |
| | | | Masonry | 21 | | | |
| | | | Masonry | 21 | | | |
| 525·32 | 27ft | Pipe | Masonry | 21 | 3" | 523·55 | A |
| 525·20 | 27ft | Pipe | Masonry | 17 | 3" | 523·55 | A |
| 525·16 | 27ft | Pipe | Masonry | 15 | 5" | 523·50 | B |
| | | | Masonry | 17 | | | |
| | | | Masonry | 24 | | | |
| | | | Masonry | 17 | | | |
| | | | Masonry | 15 | | | |
| | | | Masonry | 15 | | | |

1.2

Heading

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 198 | 10 | .. | 170 | 2 | 43 | 523.75 | 528.65 | 528.84 | | 525.37 | | 525.50 | | |
| 199 | 10 | ½ | 155 | " | " | 522.18 | 528.48 | 526.09 | | 529.11 | 527.02 | 525.99 | .83 | .075 |
| | | | | 2 | 43 | | | | | | | | | |
| | 10 | ½ | 200 | No. 7 Under Tunnel | | | | | | | | | | |
| 200 | 10 | 1 | 170 | 2 | 53 | 522.17 | 528.47 | 526.21 | | 525.88 | 527.01 | 525.82 | .99 | .072 |
| 201 | 10 | 2½ | 38 | " | 66 | 523.02 | 528.12 | | 525.29 | 525.83 | 526.72 | 525.85 | .67 | .145 |
| 202 | 10 | 2½ | 50 | 2 | 73 | 523.30 | 528.10 | 526.16 | | 525.71 | | 525.83 | | |
| | | | | 3 | 39 | | | | | | | | | |
| 203 | 10 | 3 | 255 | 3 | 26 | 522.77 | 528.07 | 525.63 | 525.49 | 525.52 | 526.57 | 525.52 | .85 | .140 |
| 204 | 10 | 3½ | 130 | 3 | 77 | 523.76 | 528.06 | 524.40 | | 523.15 | 526.56 | 520.94 | 3.66 | .076 |
| 205 | 10 | 3½ | 280 | 1 | 95 | 523.32 | 528.02 | 525.40 | | 525.65 | | 525.50 | | |
| 206 | 10 | 3½ | 310 | 2 | 22 | 523.31 | 528.01 | 524.33 | | 524.29 | 526.52 | 524.15 | 2.17 | .10 |
| 207 | 10 | 4 | 38 | 1 | 72 | 523.89 | 528.07 | 524.90 | | 525.17 | | 525.28 | | |
| | | | | 5 | 89 | | | | | | | | | |
| 208 | 10 | 4 | 180 | 9 | 94 | 523.77 | 528.01 | 523.99 | | 579.79 | 526.52 | 578.52 | 3.67 | .218 |
| 209 | 10 | 4 | 245 | 2 | 9 | 523.66 | 528.00 | 525.51 | 522.89 | 522.27 | | 517.33 | | |
| | | | | 12 | 3 | | | | | | | | | |
| 210 | 10 | 4½ | 54 | 11 | 79 | 523.07 | 527.97 | 525.31 | 525.25 | 525.22 | 526.48 | 525.22 | 1.06 | .26 |
| 211 | 10 | 4½ | 303 | " | " | 523.62 | 527.99 | | 525.07 | 523.39 | | 523.97 | | |
| 212 | 10 | 4½ | 311 | 4 | 38 | 523.07 | 527.97 | | 523.02 | 524.17 | 526.48 | 515.58 | 3.68 | .193 |
| 213 | 10 | 5 | 135 | 1 | 21 | 522.88 | 527.88 | 524.72 | | 524.80 | | 524.87 | | |
| 214 | 10 | 5 | 315 | 2 | 51 | 522.85 | 527.80 | | 525.15 | 524.64 | | 523.48 | | |
| 215 | 10 | 5½ | 76 | 4 | 73 | 522.74 | 527.74 | | 523.73 | 523.73 | | 523.88 | | |
| | | | | 12 | 83 | | | | | | | | | |
| 216 | 10 | 5½ | 160 | 9 | 89 | 523.23 | 527.73 | 524.27 | | 520.10 | 526.24 | 511.59 | 3.64 | .37 |
| 217 | 10 | 5½ | 200 | 23 | 75 | 522.72 | 527.72 | 523.68 | | 579.26 | | 512.47 | | |
| | | | | 33 | 64 | | | | | | | | | |
| 218 | 10 | 6 | 310 | 5 | 88 | 522.06 | 527.64 | 524.60 | 523.99 | 523.97 | | 524.13 | | |
| 219 | 10 | 6½ | 100 | 3 | 57 | 522.71 | 527.62 | | 78<br>~~523.86~~ | 523.86 | | 523.94 | | |
| 220 | 10 | 6½ | 234 | 3 | 85 | 522.89 | 527.62 | 524.72 | ~~524.36~~ | 524.36<br>~~526.14~~ | 526.14 | 524.45 | 1.49 | .325 |
| 221 | 10 | 7 | 64 | 3 | 94 | 522.59 | 527.59 | {524.76<br>526.11 | ~~523.96~~ | 523.96 | | 523.88 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Masonry | 20 | | | |
| 525.24 | 27ft | Pipe | Masonry | 20 | 3" | 523.40 | A |
| 522.10 | 27ft | Pipe | Masonry | 36 | 3" | 523.20 | A |
| 525.10 | 27ft | Pipe | Masonry | 22 | 3" | 523.05 | A |
| 525.57 | 27ft | Pipe | Masonry<br>Govt. sluice | 12 | 3" | 522.95 | A |
| 522.90 | 27ft | Pipe | Masonry | 20 | 3" | 522.90 | A |
| | | | Masonry | 24 | | | |
| 523.60 | 27ft | Pipe | Masonry | 23 | 3" | 522.90 | B |
| | | | Masonry | 22 | | | |
| 522.85 | 27ft | Pipe | Masonry | 28 | 3" | 522.85 | A |
| | | | Masonry | 22 | | | |
| 524.22 | 27ft | Pipe | Masonry | 19 | 4" | 522.83 | A |
| | | | Masonry | 22 | | | |
| 524.12 | 27ft | Pipe | Masonry | 22 | 3" | 522.80 | B |
| | | | Masonry | 24 | | | |
| | | | Masonry | 11 | | | |
| | | | Masonry | 25 | | | |
| 522.60 | 27ft | Pipe | Masonry | 28 | 5" | 522.60 | A |
| | | | | 30 | | | |
| | | | Masonry | 30 | | | |
| | | | Masonry | 28 | | | |
| 523.88 | 27ft | Pipe | Masonry | 27 | 4" | 522.40 | B |
| | | | Masonry | 26 | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 222 | 10 | 7 | 295 | 5 | 48 | 522.44 | 527.54 | 525.46 | | 524.34 | | 524.53 | | | | | | Masonry | 30 | | | |
| 223 | 10 | 7½ | 157 | 1 | 14 | 522.64 | 527.44 | 523.46 | | 523.45 | 525.97 | 523.11 | 2.66 | .170 | 523.80 | 27ft | Pipe | Masonry | 21 | 3" | 522.30 | B |
| 224 | 10 | 7½ | 226 | 2 | 82 | 522.36 | 527.36 | 523.11 | | 522.21 | | 522.10 | | | | | | Masonry | 28 | | | |
| | | | | 9 | 44 | | | | | | | | | | | | | | | | | |
| 225 | 11 | .. | 66 | 9 | 88 | 523.17 | 527.27 | 524.49 | | 522.62 | | 522.09 | | | | | | Masonry | 28 | | | |
| 226 | 11 | .. | 144 | 2 | 2 | 522.80 | 527.25 | 524.97 | | 523.37 | | 523.34 | | | | | | Masonry | 27 | | | |
| 227 | 11 | .. | 247 | 7 | 64 | 522.83 | 527.23 | 524.86 | | 524.25 | 525.80 | 523.34 | 2.21 | .35 | 522.64 | 27ft | Pipe | Masonry | 31 | 5" | 522.25 | B |
| 228 | 11 | .. | 315 | 4 | 31 | 522.52 | 527.22 | 524.96 | 524.42 | 524.29 | | 510.40 | | | | | | Masonry | 31 | | | |
| | | | | 23 | 85 | | | | | | | | | | | | | | | | | |

## Sicar Sinna Agraharam

11 ½ ·· No: 4 gauge | R. L of Zero point 523.54

11 ½ 34 No. 9 Masonry bridge of 2 arches.

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 229 | 11 | ½ | 100 | 9 | 56 | 522.82 | 527.12 | 525.51 | | 520.82 | | 506.91 | | | | | | Masonry | 20 | | | |
| 230 | 11 | ½ | 110 | .. | .. | | | | | | | | | | | | | Blocked up | 30 | | | |
| 231 | 11 | ½ | 214 | 2 | 6 | 523.07 | 527.12 | 525.05 | | 524.77 | | 524.36 | | | | | | Masonry | 18 | | | |
| 232 | 11 | ½ | 330 | 3 | 55 | 522.77 | 527.07 | 523.97 | | 524.17 | | 524.32 | | | | | | Masonry | 19 | | | |
| 233 | 11 | 1 | 15 | 4 | 0 | 522.82 | 527.07 | 523.96 | | 524.57 | 525.64 | 524.22 | 1.22 | .475 | 523.61 | 27ft | Pipe | Masonry | 16 | 6" | 522.20 | B |
| 234 | 11 | 1 | 215 | 4 | 31 | 521.79 | 527.07 | | 524.58 | 524.73 | | 524.48 | | | | | | Masonry | 15 | | | |
| 235 | 11 | 1 | 305 | 4 | 30 | 522.62 | 527.07 | | 524.22 | 524.37 | | 522.78 | | | | | | Masonry | 18 | | | |
| | | | | 27 | 78 | | | | | | | | | | | | | | | | | |
| 236 | 11 | 1½ | 155 | 6 | 86 | 523.13 | 527.03 | 522.93 | | 523.43 | | 523.41 | | | | | | Masonry | 19 | | | |
| 237 | 11 | 1½ | 178 | 4 | 74 | 522.63 | 527.03 | 522.58 | | 523.08 | | 523.23 | | | | | | Masonry | 19 | | | |
| 238 | 11 | 1½ | 310 | 1 | 82 | 522.38 | 526.98 | 522.25 | | 523.63 | | 523.93 | | | | | | Masonry | 21 | | | |
| 239 | 11 | 2 | 130 | 14 | 92 | 521.08 | 526.88 | 521.15 | | 521.18 | 525.47 | 525.65 | 3.47 | .352 | 523.20 | 27ft | Pipe | Masonry | 25 | 5" | 522.00 | B |
| 240 | 11 | 2 | 243 | 1 | 17 | 522.20 | 526.85 | 523.86 | | 523.10 | | 523.30 | | | | | | Masonry | 28 | | | |
| | | | | 28 | 51 | | | | | | | | | | | | | | | | | |

11 2 327 No: 8 Under Tunnel

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 11 | 2½ | 283 | 1 | 93 | 521.85 | 526.60 | | 523.75 | 523.70 | 525.20 | 523.83 | 1.17 | .138 | 523.00 | 27ft | Pipe | Conglomerate blocked up | 18 | 3" | 521.90 | A |
| 242 | 11 | 3½ | 120 | 1 | 50 | 522.24 | 526.39 | 524.62 | | 523.21 | | 523.06 | | | | | | Masonry | 22 | | | |
| 243 | 11 | 3½ | 130 | .. | 78 | 522.49 | 526.39 | 524.29 | | 524.06 | 525.00 | 523.57 | 1.23 | .245 | 523.00 | 27ft | Pipe | Masonry front face washed away | 20 | 3" | 521.70 | A. |
| 244 | 11 | 3½ | 323 | 8 | 82 | 522.41 | 526.31 | 526.36 | | 520.61 | | 516.96 | | | | | | Masonry | 22 | | | |
| | | | | 11 | 10 | | | | | | | | | | | | | | | | | |

9b

R D

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | 11 | 4 | 245 | " | " | 522.25 | 526.20 | | | | | | | |
| 246 | 11 | 4 | 250 | " | " | 522.05 | 526.20 | | | | | | | |
| 247 | 11 | 4½ | 15 | 12 | 48 | 522.16 | 526.16 | | | | | | | |
| 248 | 11 | 4/2 | 188 | 5 | 52 | 522.25 | 526.10 | 523.05 | 523.08 | 523.00 | 524.78 | 523.16 | 1.42 | .321 |
| | | | | 18 | " | | | | | 522.92 | | 522.87 | | |
| 249 | 11 | 5 | 112 | 6 | 66 | 522.01 | 526.06 | 523.33 | | | | | | |
| 250 | 11 | 5 | 160 | " | 8 | | | | | 523.08 | | 523.03 | | |
| [illegible] | 11 | 5 | 234 | 7 | 5 | 522.04 | 526.04 | {522.84 | | | | | | |
| 252 | 11 | 5 | 268 | 5 | 98 | 521.52 | 526.04 | 524.28} | Plughole | 522.82 | 524.66 | 523.13 | 1.33 | .41 |
| | | | | | | | | 523.08 | 520.46 | 520.58 | | 515.43 | | |
| 252 | 11 | 5/2 | 37 | 4 | 20 | 521.62 | 525.92 | {522.48<br>524.20 | Plughole | 522.28 | | 522.33 | | |
| | | | | 23 | 97 | | | | | | | | | |
| 256 | 11 | 5/2 | 88 | " | 5 | 521.83 | 525.85 | 524.53 | | 524.43 | 524.51 | 524.48 | Nil | |
| 255 | 11 | 5/2 | 200 | 5 | 78 | 521.52 | 525.57 | 523.99 | | 522.19 | | 520.94 | | |
| [illegible] | 11 | 5/2 | 237 | 6 | 74 | 521.56 | 525.86 | 523.14 | | 522.93 | 524.60 | 523.13 | 1.17 | .29 |
| | | | | 12 | 52 | | | | | | | | | |
| | 11 | 5/2 | 320 | Nº 9 Vande Tunnel | | | | | | | | | | |
| 257 | 11 | 6 | 60 | 6 | 94 | 521.95 | 525.85 | 523.01 | | 522.81 | 524.49 | 522.86 | 1.43 | .20 |
| [illegible] | 11 | 6 | 262 | 6 | 14 | 521.68 | 525.63 | 522.83 | | 522.89 | 524.48 | 523.93 | .35 | .26 |

Bramana Sima Agraharam

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 259 | 11 | 6/2 | 37 | 9 | 78 | 521.56 | 525.81 | 522.56 | 520.71 | 520.81 | | 507.90 | | |
| 260 | 11 | 6/2 | 310 | 8 | 18 | 521.76 | 525.65 | 522.72 | | 523.02 | 524.31 | 522.76 | 1.35 | .375 |
| 261 | 11 | 7 | 112 | 3 | 65 | 521.32 | 525.56 | 523.40 | | 522.71 | | 522.91 | | |
| | | | | 21 | 61 | | | | | | | | | |
| 262 | 11 | 7 | 118 | 7 | 45 | 521.18 | 525.58 | | | 522.53 | | 517.92 | | |
| | | | | | | | | | | | | 522.57 | | |
| [illegible] | 11 | 7 | 270 | " | 13 | 521.77 | 525.57 | {522.38<br>523.34 | Plughole | 522.62 | | | | .50 |
| | | | | | | | | | | 522.49 | 524.18 | 522.45 | 1.53 | |
| [illegible] | 11 | 7/2 | 15 | 8 | 70 | 521.77 | 525.52 | 524.20 | | | | 508.36 | | |
| [illegible] | 11 | 7/2 | 138 | 17 | 44 | 521.59 | 525.61 | 521.14<br>522.87 | Plughole | 519.71 | | | | |
| | | | | 35 | 72 | | | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Masonry | 25 | | | |
| | | | blocked up<br>not used | 14 | | | |
| 522.80 | 27 ft | Pipe | Masonry | 12 | 4" | 521.55 | A |
| | | | Govt: sluice<br>Masonry | 20 | | | |
| | | | Masonry | 19 | | | |
| | | | Pt. sluice<br>blocked up | | | | |
| 522.38 | 27 ft | Pipe | Masonry | 17 | 5" | 521.40 | B |
| | | | Masonry | 21 | | | |
| | | | Masonry | 15 | | | |
| 523.00 | 27 ft | Pipe | Roughstone | 11 | 3" | 521.40 | A |
| | | | Masonry | 15 | | | |
| 522.40 | 27 ft | Pipe | Masonry | 21 | 4" | 521.30 | A |
| 522.00 | 27 ft | Pipe | Masonry | 22 | 3" | 521.60 | A |
| 522.43 | 27 ft | Pipe | Masonry | 20 | 4" | 521.30 | A |
| | | | Masonry | 22 | | | |
| 522.20 | 27 ft | Pipe | Masonry | 20 | 5" | 521.25 | B |
| | | | Masonry | 16 | | | |
| | | | Masonry | 16 | | | |
| | | | Masonry | 22 | | | |
| 521.82 | 27 ft | Pipe | Masonry | 16 | 6" | 521.10 | B |
| | | | [illegible] | 19 | | | |

ad. 15

3 34 ~~18~~ 13 3 3 4 2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 266 | 11 | 7½ | 263 | 6 | 67 | 521·99 | 525·55 | 523·64 |  | 522·84 |  | 522·66 |  |  |
| 267 | 11 | 7½ | 305 | 2 | 28 | 522·10 | 525·50 | 523·54 |  | 522·86 | 524·16 | 523·29 | ·67 | ·805 |
| 268 | 11 | 7½ | 315 | 13 | 28 | 522·09 | 525·49 | 522·76 |  | 521·69 |  | 519·78 |  |  |
| 269 | 12 | – | 12 | 23 | 34 | 521·84 | 525·49 | 521·54 |  | 520·74 |  | 510·20 |  |  |
|  |  |  |  | 45 | 57 |  |  |  |  |  |  |  |  |  |
| 270 | 12 | – | 28 | 24 | 14 | 520·96 | 525·48 | 521·56 |  | 521·49 | 524·14 | 505·07 | 3·09 | ·402 |
| 271 | 12 | – | 40 | 11 | 82 | 521·73 | 525·48 | 522·28<br>523·69 | Plughole | 521·49 |  | 505·72 |  |  |
|  |  |  |  | 35 | 96 |  |  |  |  |  |  |  |  |  |
| 272 | 12 | – | 50 | 4 | 74 | 521·57 | 525·47 | 522·34<br>523·79 | Plughole | 522·89 |  | 522·94 |  |  |
| 273 | 12 | – | 130 | 2 | 54 | 521·72 | 525·47 | 522·49 |  | 523·13 | 524·13 | 522·99 | 1·94 | ·225 |
|  |  |  |  | 7 | 28 |  |  |  |  |  |  |  |  |  |

Pilamedu

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 274 | 12 | – | 215 | 21 | 94 | 520·42 | 525·47 | 521·74<br>523·54 | Plughole | 520·29 |  | 511·15 | 2·33 | ·518 |
| 275 | 12 | – | 302 | 14 | 37 | 521·61 | 525·46 | 522·43<br>523·44 | Plughole | 520·49 | 524·12 | 521·59 |  |  |
| 276 | 12 | 1 | 15 | 10 | 52 | 521·25 | 525·45 | 522·05 |  | 521·84 |  | 521·85 |  |  |
|  |  |  |  | 46 | 83 |  |  |  |  | 523·15 | 524·12 | 523·34 | ·58 | ·158 |
| 277 | 12 | 1 | 28 | 1 | 70 | 521·25 | 525·45 | 523·25 |  |  |  |  |  |  |
| 278 | 12 | 1 | 300 | 1 | 66 | 521·90 | 525·44 | 522·02<br>521·03 | Plughole | 521·79 |  | 522·93 |  |  |
|  |  |  |  | 3 | 36 |  |  |  |  | 520·10 | 524·11 | 518·95 | 3·21 | ·150 |
| 279 | 12 | 1½ | 17 | 7 | 20 | 521·50 | 525·44 | 521·92 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 523·05 | 524·06 | 523·16 | ·70 | ·382 |
| 280 | 12 | 1½ | 327 | 5 | 78 | 521·85 | 525·40 | 522·70 |  | 523·21 |  | 523·60 |  |  |
| 281 | 12 | 2 | 257 | 3 | 63 | 521·65 | 525·37 | 522·70 |  | 522·88 |  | 523·10 |  |  |
| 282 | 12 | 2 | 275 | 4 | 1 | 521·62 | 525·37 | 522·65 |  |  |  |  |  |  |
|  |  |  |  | 13 | 42 |  |  |  |  | 523·05 |  | 523·00 |  |  |
| 283 | 12 | 2½ | 240 | 3 | 74 | 521·35 | 525·35 | 522·95 |  |  |  |  | 1·08 | ·152 |
| 284 | 12 | 3 | 15 | 1 | 87 | 521·35 | 525·13 | 523·62 |  | 523·19 | 523·84 | 522·58 |  |  |
|  |  |  |  | 5 | 61 |  |  |  |  |  |  |  | 2·41 | ·892 |
| 285 | 12 | 3½ | 96 | 3 | 32 | 521·35 | 524·90 | 522·16 |  | 521·47 | 523·61 | 521·00 |  |  |
| 286 | 12 | 4 | 8 | 1 | 71 | 521·35 | 524·85 | 523·65 |  | 523·05 |  | 523·27 | ·78 | ·061 |
| 287 | 12 | 4 | 166 | – | – | 521·40 | 524·80 | 523·63 |  | 522·72 | 523·60 | 522·62 |  |  |
| 288 | 12 | 5 | 19 | – | – |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 1 | 71 |  |  |  |  | × |  |  |  |  |

|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
|  |  |  | Masonry | 15 | 35 |  |  |
| 522·54 | 27ft | Pipe | Masonry | 22 | 10" | 521·05 | B |
|  |  |  | Masonry | 22 |  |  |  |
|  |  |  | Masonry | 20 |  |  |  |
| 521·05 | 27ft | Pipe | Masonry | 18 | 5" | 521·05 | A |
|  |  |  | Masonry | 18 |  |  |  |
|  |  |  | Masonry | 19 |  |  |  |
| 522·24 | 27ft | Pipe | Masonry | 20 | 3" | 521·05 | A |
|  |  |  | Masonry | 25 |  |  |  |
| 521·50 | 27ft | Pipe | Masonry | 23 | 7" | 521·00 | B |
|  |  |  | Masonry | 20 |  |  |  |
| 522·60 | 27ft | Pipe | Masonry<br>Govt. sluice | 12 | 3" | 521·00 | A |
|  |  |  | Masonry | 18 |  |  |  |
| 520·90 |  |  |  |  |  |  |  |
|  | 27ft | Pipe | Masonry | 19 | 3" | 520·90 | A |
| 523·00 | 27ft | Pipe | Masonry | 19 | 5" | 520·70 | B |
|  |  |  | Masonry | 16 |  |  |  |
|  |  |  | Masonry | 16 |  |  |  |
|  |  |  | Masonry Govt. sluice | 12 |  |  |  |
| 522·50 | 27ft | Pipe | Masonry | 13 | 3" | 520·50 | A |
| 520·45 | 27ft | Pipe | Masonry | 14 | 3" | 520·45 | A |
|  |  |  | Masonry Govt. sluice | 12 |  |  |  |
| 521·90 | 27ft | Pipe | Masonry | 15 | 3" | 520·30 | A |
|  |  |  | Masonry not used |  |  |  |  |

26B

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 12 | 5½ | 43 | „ | . | 520·06 | 524·36 | 521·75 | | 522·20 | 523·40 | 522·30 | ·10 | ·351 | 521·60 | 27ft | Pipe | Masonry Govt: sluice | 12 | 5" | 520·00 | A |
| 290 | 12 | 5½ | 66 | 2 | 43 | 520·05 | 524·36 | 521·13 | | 520·71 | | 521·75 | | | | | | Masonry | 15 | | | |
| 291 | 12 | 5½ | 144 | 9 | 19 | 520·21 | 524·31 | | 520·86 | 521·42 | | 521·54 | | | | | | Masonry not used | 15 | | | |
| | | | | 11 | 62 | | | | | | | | | | | | | | | | | |
| 292 | 12 | 6 | 130 | 1 | 62 | 519·86 | 524·11 | 521·79 | | 522·36 | 522·86 | 522·91 | Nil | | 521·41 | 27ft | Pipe | Masonry Govt: sluice | 12 | 3" | 519·90 | A |
| 293 | 12 | 7 | 215 | 1 | 33 | 518·66 | 523·86 | 521·36 | | 519·68 | 522·61 | 519·83 | 2·58 | | 519·75 | 27ft | Pipe | Roughstone blocked up | 25 | 3" | 519·75 | A |
| | 12 | 7½ | 200 | 104 | 53 | No 10 Under tunnel to be a new Sluice close by under tunnel (Vide report accompanying) The sill to be at bed level | | | | | | | | | | | | | | | | |
| 294 | 13 | ½ | 136 | | | 519·58 | 523·68 | | | | | | | | | | | Masonry blocked up | 22 | | | |
| 295 | 13 | ½ | 150 | 3 | 37 | 519·45 | 523·65 | 520·78 | | 520·38 | 522·44 | 520·43 | 1·81 | ·03 | 519·93 | 27ft | Pipe | Iron pipe | 25 | 3" | 519·50 | A |
| 296 | 13 | ½ | 182 | – | | 519·48 | 523·63 | | | | | | | | | | | Masonry not in use | 16 | | | |
| | | | | 3 | 37 | | | | | | | | | | | | | | | | | |
| 297 | 13 | ½ | 250 | 2 | 21 | 519·33 | 523·58 | 520·33 | | 521·58 | | 521·48 | | | | | | Masonry | 19 | | | |
| 298 | 13 | 1 | 285 } | 5 | 39 | 519·12 | 523·53 | 520·42 | | 521·62 | 522·34 | 521·61 | ·53 | ·42 | 520·80 | 27ft | Pipe | Masonry | 17 | 5" | 519·30 | B |
| 299 | 13 | 1½ | 60 } | | | 518·92 | 523·49 | 520·32 | | 521·22 | | 521·19 | | | | | | Masonry | 15 | | | |
| 300 | 13 | 1½ | 85 | 7 | 59 | 518·89 | 523·47 | 519·22 | | 520·17 | | 519·67 | | | | | | Masonry | 20 | | | |
| | | | | 15 | 19 | | | | | | | | | | | | | | | | | |
| | 13 | 1½ | 270 | No 11 Under tunnel | | | | | | | | | | | | | | | | | | |
| 301 | 13 | 2 | 146 | 5 | 9 | 518·54 | 523·44 | 519·39 | | 519·16 | | 518·94 | | | | | | Masonry Govt: sluice | 12 | | | |
| 302 | 13 | 2½ | 215 | .. | .. | 517·51 | 523·41 | | | | | | | | | | | Masonry blocked up | 25 | | | |
| 303 | 13 | 3 | 85 | 1 | 59 | 518·89 | 523·39 | | 519·82 | 519·81 | 522·20 | 519·79 | 2·21 | ·106 | 519·10 | 27ft | Pipe | Masonry | 22 | 3" | 519·10 | A |
| | | | | 6 | 68 | | | | | | | | | | | | | | | | | |
| 304 | 13 | 3 | 146 | 46 | 97 | 518·96 | 523·36 | 518·77 | 518·64 | 518·69 | | 516·71 | | | | | | Masonry Govt: sluice | 12 | | | |
| 305 | 13 | 3 | 205 | 39 | 43 | 518·89 | 523·33 | 519·64 | | 516·49 | 522·08 | 518·61 | 3·03 | ·761 | 519·15 | 27ft | Pipe | Masonry Govt sluice | 12 | 10" | 519·05 | B |
| 306 | 13 | 3 | 250 | 34 | 70 | 518·89 | 523·26 | 518·99 | | 517·56 | | 518·90 | | | | | | Masonry | 20 | | | |
| | | | | 121 | 10 | | | | | | | | | | | | | | | | | |
| 307 | 13 | 3 | 297 | | 89 | 519·19 | 523·24 | 520·34 | | 520·51 | | 520·64 | | | | | | Masonry | 20 | | | |
| 308 | 13 | 3½ | 87 | 1 | 80 | 518·83 | 523·13 | 518·58 | | 518·47 | 521·94 | 519·06 | 2·68 | ·130 | 518·95 | 27ft | Pipe | Masonry | 16 | 3" | 518·95 | A |
| 309 | 13 | 4 | 35 | 3 | 36 | 518·68 | 523·11 | 519·65 | | 519·50 | | 519·45 | | | | | | Masonry | 16 | | | |
| | | | | 6 | 5 | | | | | | | | | | | | | | | | | |
| | 13 | 4 | 284 | No. 10 Masonry Bridge of 4 Vents. | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 310 | 13 | 4½ | 272 | 4 | 59 | 518.33 | 523.03 | 518.45 | 520.10 | 521.85 | 519.75 | 1.90 | .15 | 520.00 | 27 ft | Pipe | Masonry | 17 | 3" | 518.80 | A |
| 311 | 13 | 5 | 130 | 1 | 97 | 519.23 | 523.00 | 520.27 | 520.79 | | 520.78 | | | | | | Masonry | 25 | | | |
| 312 | 13 | 5 | 174 | " | " | 519.32 | 522.98 | | | | | | | | | | Iron pipe blocked up | 22 | | | |
| | | | | 6 | 56 | | | | | | | | | | | | | | | | |
| | 13 | 5 | 283 | No. 12 Under Tunnel | | | | | | | | | | | | | | | | | |
| 313 | 13 | 5½ | 208 | 3 | 76 | 519.18 | 522.83 | 520.53 | 521.68 | 521.63 | 521.68 | Nil | | 520.18 | 27 ft | Pipe | Masonry | 17 | 3" | 518.60 | A |
| 314 | 13 | 6 | 112 | 2 | 87 | 518.66 | 522.76 | 520.16 | 520.26 | 521.62 | 520.24 | 1.18 | .15 | 519.60 | 27 ft | Pipe | Masonry | 17 | 3" | 518.50 | A |
| 315 | 13 | 6½ | 57 | 1 | 62 | 518.95 | 522.71 | 519.85 | 519.86 | | 519.86 | | | | | | Masonry | 23 | | | |
| 316 | 13 | 7 | 7 | " | 78 | 518.71 | 522.49 | 520.42 | 520.50 | | 519.48 | | | | | | Masonry | 20 | | | |
| | | | | 5 | 27 | | | | | | | | | | | | | | | | |
| | 13 | 7 | 170 | No. 5 gauge R. L of Zero point 520.16 | | | | | | | | | | | | | | | | | |
| | 13 | 7½ | - | No. 2 Masonry aqueduct. | | | | | | | | | | | | | | | | | |
| 317 | 14 | - | 295 | 1 | 23 | 517.99 | 521.34 | 517.68 | 517.17 | 520.22 | 515.93 | 2.32 | .032 | 517.90 | 27 ft | Pipe | Masonry | 15 | 3" | 517.90 | A |
| | 14 | ½ | 15 | No. 5 Outlet (falling Shutters) 30 ft long crest level 520.67 | | | | | | | | | | | | | | | | | |
| 318 | 14 | ½ | 160 | " | 49 | 517.79 | 521.29 | 517.84 | 514.52 | | 514.41 | | | | | | Masonry | 22 | | | |
| 319 | 14 | 1 | 112 | " | " | 517.44 | 521.07 | | | | | | | | | | Masonry blocked up | 20 | | | |
| 320 | 14 | 1 | 128 | 2 | 22 | 517.44 | 521.07 | 518.97 | 518.44 | 520.00 | 518.51 | 1.29 | .10 | 517.81 | 27 ft | Pipe | Iron pipe | 33 | 3 | 517.30 | A |
| | | | | 2 | 71 | | | | | | | | | | | | | | | | |
| | 14 | 1½ | 60 | No. 11 Iron Girder Bridge (M. R. C) | | | | | | | | | | | | | | | | | |
| 321 | 14 | 1½ | 290 | 13 | 23 | 517.54 | 520.00 | 516.30 | 516.97 | | 516.37 | | | | | | Masonry | 20 | | | |
| 322 | 14 | 2 | 180 | 1 | 68 | 516.78 | 519.94 | 518.14 | 518.10 | 518.88 | 518.14 | .54 | .525 | 517.40 | 27 ft | Pipe | Porcelain pipe | 19 | 7" | 516.20 | B |
| 323 | 14 | 2 | 307 | 1 | 45 | 516.75 | 519.78 | | 517.70 | | 517.66 | | | | | | Rough stone | 19 | | | |
| 324 | 14 | 2½ | 76 | 1 | 97 | 516.61 | 519.73 | 517.85 | 518.04 | | 517.90 | | | | | | Masonry | 14 | | | |
| 325 | 14 | 2½ | 98 | 2 | 48 | 516.55 | 519.72 | | 517.36 | | 517.57 | | | | | | Rough stone | 11 | | | |
| | | | | 20 | 81 | | | | | | | | | | | | | | | | |

18

X Heading

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 326 | 14 | 2½ | 167 | 4 | 91 | 516.98 | 519.71 | 517.47 | 517.30 |  | 517.61 |  |  |
|  | 327 | 14 | 2½ | 178 |  |  | 516.96 | 519.71 |  | 517. |  |  |  |  |
| 135 | 328 | 14 | 2½ | 315 | 1 | 62 | 516.41 | 519.31 | 518.31 | 517.91 | 518.26 | 517.90 | .17 | .365 |
|  | 329 | 14 | 3 | 7 | 1 | 67 | 516.51 | 519.21 | 517.31 | 517.53 |  | 517.21 |  |  |
|  |  |  |  |  | 8 | 20 |  |  |  |  |  |  |  |  |
| 135 | 330 | 14 | 3 | 24 | 1 | 87 | 516.56 | 519.16 | 516.66 | 514.71 | 518.12 | 508.56 | 2.52 | .030 |
|  | 331 | 14 | 3 | 87 | 1 | 63 | 516.76 | 519.01 | 517.61 | 517.91 |  | 517.88 |  |  |
|  | 332 | 14 | 3 | 229 | 2 | 31 | 516.66 | 518.91 | 517.66 | 517.91 | 517.58 | 517.83 | Nil |  |
|  |  |  |  |  | 3 | 94 |  |  |  |  |  |  |  |  |
| 136 | 333 | 14 | 3½ | 44 | 2 | 58 | 516.68 | 518.35 | 516.85 | 517.53 | 518.32 | 516.33 | 1.79 | .16 |
|  | 334 | 14 | 3½ | 50 | 1 | 72 | 516.65 | 518.35 | 516.60 | 517.39 |  | 517.40 |  |  |
|  | 335 | 14 | 3½ | 164 | 2 | 22 | 514.29 | 518.30 | 517.06 | 517.16 |  | 517.16 |  |  |
|  | 336 | 14 | 3½ | 236 |  |  | 513.96 | 517.96 |  |  |  |  |  |  |
|  |  |  |  |  | 6 | 52 |  |  |  |  |  |  |  |  |
| 135 | 337 | 14 | 5 | 75 |  | 79 | 513.70 | 516.60 | 515.35 | 516.07 | 515.60 | 516.13 | Nil |  |
|  | 338 | 14 | 5½ | 218 | 3 | 46 | 513.43 | 515.53 | 515.35 | 515.16 | 514.84 | 515.02 | Nil |  |
| 136 | 339 | 14 | 6 | 37 | 4 | 76 | 512.50 | 515.40 |  | 514.25 |  | 514.07 |  |  |
|  |  |  |  |  | 4 | 22 |  |  |  |  |  |  |  |  |
|  | 340 | 14 | 7½ | 26 | 2 | 14 | 510.99 | 514.24 | 511.72 | 512.49 | 513.29 | 512.41 | .68 | .141 |
| 137 | 341 | 14 | 7½ | 243 |  | 93 | 511.79 | 514.19 | 511.09 | 510.84 |  | 510.64 |  |  |
|  |  |  |  |  | 3 | 7 |  |  |  |  |  |  |  |  |
|  |  | 15 | ½ | 80 | No 6 Outlet two vents 6'-6" × 5'-3" & 6'-8" × 3'-9" |  |  |  |  |  |  |  |  |  |
|  | 342 | 15 | 2 | 80 | 4 | 20 | 509.01 | 513.67 | 510.20 | 510.80 | 512.76 | 510.65 |  |  |
| 138 | 343 | 15 | 2 | 92 | 4 | 35 | 509.10 | 513.67 | 509.65 | 509.65 |  | 509.50 | 1.91 | .20 |
|  |  |  |  |  | 8 | 55 |  |  |  |  |  |  |  |  |
|  |  | 15 | 2 | 295 | No 6 Gauge R L of Zero point 509.23 |  |  |  |  |  |  |  |  |  |
| 139 | 344 | 15 | 2 | 344 | - | 76 | 509.41 | 513.51 | 511.20 | 512.60 | 512.60 | 512.55 | Nil |  |

Confirmed

Supdg. Engineer

[illegible] Circle

4.98.

|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
| 516.70 | 27 ft | Pipe | Masonry | 14 | 3" | 515.00 | B |
|  |  |  | Rough stone | 14 |  |  |  |
|  |  |  | Rough stone | 11 |  |  |  |
|  |  |  | Masonry blocked up | 16 |  |  |  |
| 514.50 | 27 ft | Pipe | Rough stone | 12 | 3" | 513.80 | A |
| 513.75 | 27 ft | Pipe | Masonry Goat sluice | 12 | 4" | 512.80 | A |
|  |  |  | Rough stone | 14 |  |  |  |
| 511.91 | 27 ft | Pipe | Masonry<br>Goat sluice<br>Rough stone | 12<br><br>21 | 3" | 511.00 | A |
| Sill levels 509.11 & 510.54 |  |  |  |  |  | 509.50 | A |
|  |  |  | Masonry | 11 |  |  |  |
| 509.90 | 27 ft | Pipe | Masonry | 23 | 3" |  |  |
| 511.05 | 27 ft | Pipe | Masonry | 22 | 3" | 509.23 | A |

(Sd) S. V. Manickam.
29-3-98.
Asst: Engineer.
Erode Sub Divn

C. H. B. Burton
4/5/98
Executive Engineer
Coimbatore Division

4°

SUPG. ENGINEER'S OFFICE W.D.
No. 350 C.I
5 MAY.88
2

do: No 7 to letter No 1179
8

[illegible]
FOR [illegible]
24 AUG 1898
34 C.I

7

A

H.E. the Governor

4

Public Works Department,
Irrigation Branch.

# PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

Estimate for restoring the Kalingarayan Chl. Coimbatore Dt.

with Report of new sluices

Letter from the Supg. Engineer – 4th Circle – – (H.E. No 189/I of 19th Augt 1898)

Print

Note by the Chief Engineer for Irrigation (H.E. No 246 I dated 22nd Septr/98)

In 1891 Estimates were sanctioned by the Secretary of State for the improvement and extension of the Kalingarayan channel in the Coimbatore District. This sanction having expired in Jany 1896 and as no outlay was incurred on the work owing to funds not having been assigned to it by the Government of India, the Supg. Engineer 4th Circle, was directed in G.O. No 705 I. dated 17th Aug 1896, to report whether any modifications in the estimates were required prior to an extension of sanction being applied for.

2. In his report embodied in P.W.G. No 1089 I dated 23rd Dec

Issue

J. C.

26/9/98

to S.E. on

Flag G.

Flag P.

23rd December 1896, the Supt Engineer expressed doubts as to the adequateness of the sanctioned estimates, the necessity for the work in the event of the Bhavani reservoir project being constructed and the possibility of passing water down the 89th mile of the channel and recommended that the extension of the channel should not be commenced until the existing channel had been entirely resluiced.

3. On receipt of the above report, the Government of India in its letter printed in P. W. G. No. 291 I. dated 3rd March 1897 declined to extend the term of sanction to the extension estimates pending receipt of a further explanation on the Supt Engineer's doubts, but directed that in the meanwhile the estimate for resluicing the channel may be sanctioned under 43 – Minor works & Navigation Provincial. Flag S

4. The Supt. Engineer reports that in anticipation of sanction, he has permitted Flag S

42 the work to be put in hand and has even ordered the Cast iron pipes, this he should not have done without reference to this office. As it was intended to considerably reduce the amount of the estimate by substituting stone ware pipes for cast iron, or to ~~[illegible]~~ utilise the large surplus stock of Cement pipes, available in the Kistna District, the Supt Engineer has been instructed to provide means of regulation for the large sluices and the remark on the sluice plan should be attended to.

38 P

?

Flag Q.

5. With his letter read above the Supt. Engineer submits an estimate of Rs 14,500 for resluicing the channel from 1st to 15th mile which is recommended for sanction, the funds required for expenditure on the work being provided by transfer from the existing grants for tank restoration repairs in the North Arcot and Salem Divisions as suggested by the Superintending Engineer. Flag X

J C L

Irrigation Secn. Noted A.G.H.

No: 752 I d/30.9.98

E. J. 22/9/98

Order thereon

A.G.H.

The following estimate is—

is sanctioned:—

Irrigation

43- Minor works & Navign.

Minor works for which Capital & Revenue Accts are kept

Kalingarayen Channel System
Open Capital Account.
I. works
2. Main Canals & Branches
3- Regulators

Resluicing the Kalingarayen Channel from 1st to 15th mile

Estimate -

I. works ---- Rs 14,500

II. Establishment - " 3335

III. Tools & Plant - " 65

Total Estimate 17,900

. This sanction is registered as No 75. I of 1898-99 & will Expire on 31st March 1899.

The following transfers of funds are sanctioned:—

A.S.H.
23.9.98

Irrigation

43. Minor works & Navigation

From

Minor works for which neither Capital nor Revenue Accounts are kept.

Tank Restoration repairs

| | Rs |
|---|---|
| North Arcot Divn - | 8000 |
| Salem Divn - - - | 6325 |
| Total | 14,325 |
| Establishment - | 3295 |
| Tools & Plant. | 215 |
| Total Rs | 17,835. |

43 To.

Minor works for wh Capital & Revn. acc are kept -

Kalingarayen Chl
Coimbatore
Capital

works - - - -

Establishment -

Total Rs 17,8

4. The Supdg. Engineer 4th Circle, will Expedi the submission of estimate for resluic the remaining leng of the channel keep in view the remarks the Chief Engineer for in para 4 of the f note regarding the u of the large surplus of Cement pipes avai in the Kistna Dist

T.E.J.
29.9.98

To
The Chief Engineer for Irrign
" Supdg. Engr. 4th Circle in M/S with 17 Encls.
" Exr of P. W. Accounts

Dr 7/11/98 4

Refund [illegible] Statement [illegible] SE with reference his No 256 dt 23/10/98 : A.G. 22/ [illegible]

J. C.