Public Works Dept.

Administration Report for the year 1918-19

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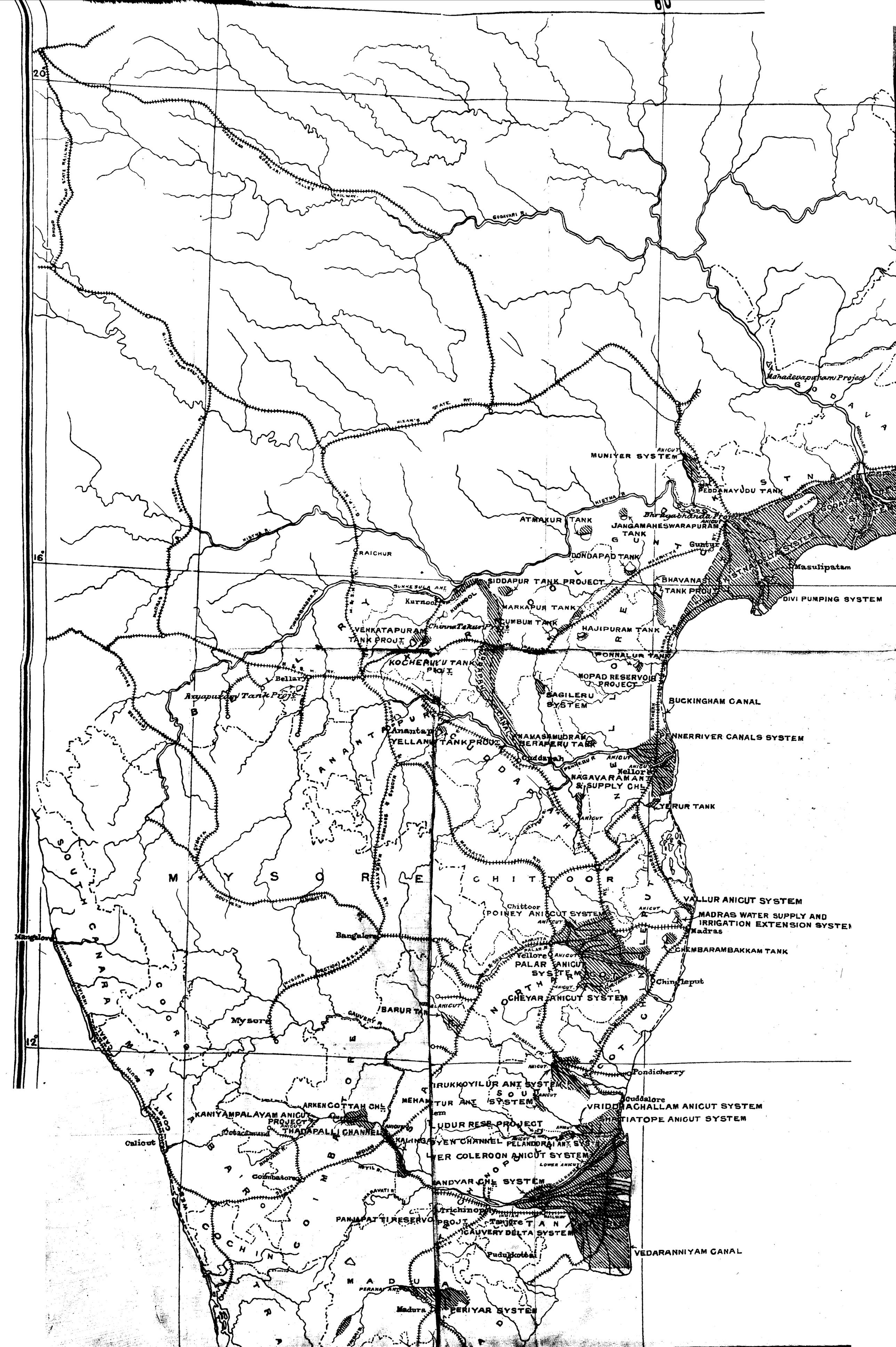
80
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DHONDA & NANDED STATE RAILWAY
GODAVARI VALLEY RAILWAY
GODAVARI R.
Mahadevapuram Project
GODAVARI
STATE RY.
NIZAM'S
MAHRATTA RY.
SOUTHERN
KISTNA R.
MUNIYER SYSTEM
ANICUT
PEDDANAYUDU TANK
KISTNA
KOLAIR LAKE
GODAVARI SYSTEM
Bhrugabhanda Project
ATMAKUR TANK
JANGAMAHESWARAPURAM TANK
GUNTUR
Guntur
RAICHUR
DONDAPAD TANK
KISTNA DELTA SYSTEM
Masulipatam
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VENKATAPURAM TANK PROJ.
Chinna Tekur Proj.
KOCHERUVU TANK PROJ.
PONNALUR TANK
Bellary
MOPAD RESERVOIR PROJECT
Anyapuday Tank Proj.
SAGILERU SYSTEM
BUCKINGHAM CANAL
Anantapur
YELLANU TANK PROJ.
PENNERRIVER CANALS SYSTEM
Cuddapah
NAGAVARAMANTA & SUPPLY CHL.
Nellore
YERUR TANK
MYSORE
CHITTOOR
VALLUR ANICUT SYSTEM
Chittoor
POINEY ANICUT SYSTEM
MADRAS WATER SUPPLY AND IRRIGATION EXTENSION SYSTEM
Madras
Mangalore
Bangalore
CHEMBARAMBAKKAM TANK
Vellore
PALAR ANICUT SYSTEM
Chingleput
CHEYAR ANICUT SYSTEM
Mysore
BARUR TANK
Pondicherry
TIRUKKOYILUR ANI SYSTEM
Cuddalore
VRIDDHACHALLAM ANICUT SYSTEM
SHIYATIATOPE ANICUT SYSTEM
KANIYAMPALAYAM ANICUT PROJECT
THADAPALLI CHANNEL
Calicut
Coimbatore
LOWER COLEROON ANICUT SYSTEM
PANJAPATTI RESERVOIR PROJ.
Trichinopoly
Tanjore
CAUVERY DELTA SYSTEM
VEDARANNIYAM CANAL
Pudukkottai
Madura
PERIYAR SYSTEM

IRRIGATION BRANCH

PUBLIC WORKS DEPARTMENT

MADRAS PRESIDENCY

Scale 1 inch = 32 Miles.

10 5 0 10 20 30 40 50 100 150 miles.

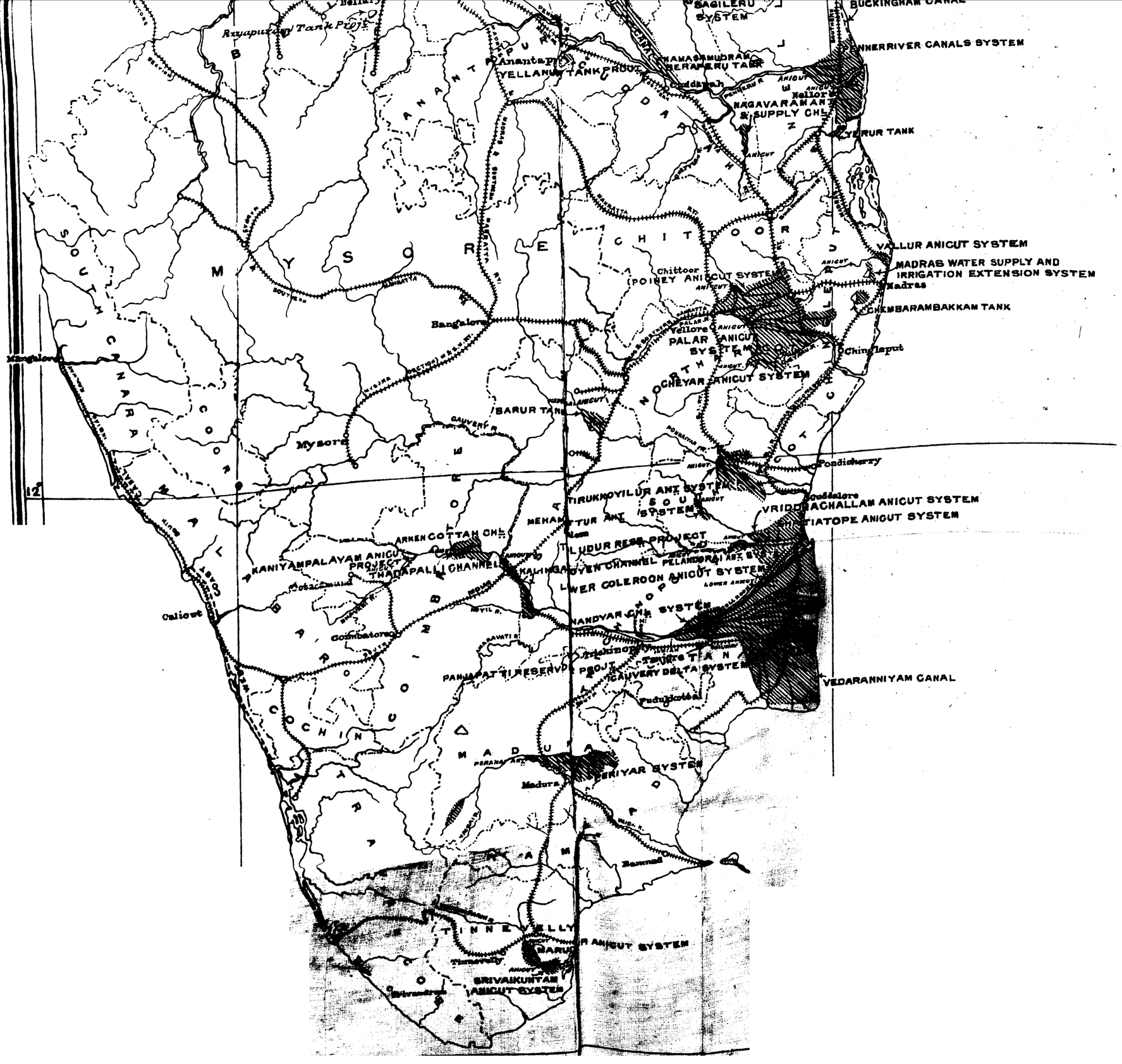
REFERENCE

AREA COMMANDED BY EXISTING CLASS I & II WORKS.....

" " BY CLASS I & II WORKS UNDER EXECUTION.....

IRRIGATION CANALS SHOWN THUS.....

NAVIGABLE " " .....



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PUBLIC WORKS DEPARTMENT, MADRAS PRESIDENCY.

ADMINISTRATION REPORT

FOR THE YEAR 1918-1919.

PART II—IRRIGATION.

CHAPTER I—GENERAL.

Personnel.

There was no change in the personnel; the Hon'ble Mr. W. J. J. Howley continued as Chief Engineer for Irrigation, and Mr. F. E. Morgan as Assistant Chief Engineer for Irrigation, throughout the year.

Classification of works.

2. Irrigation works in this Presidency are divided into four classes:—

Class I.—Imperial—Major Productive and Protective works.

Class II.—Provincial—Minor works and Navigation for which Capital and Revenue accounts are kept.

Class III.—Provincial—Minor works for which neither Capital nor Revenue accounts are kept.

Class IV.—Provincial—Agricultural works.

Gross outlay, revenue and area irrigated.

3. The total outlay incurred on, and the total revenue derived from, irrigation works during the year under report were Rs. 80,08,840 and Rs. 2,51,49,778 against Rs. 78,99,191 and Rs. 2,75,26,363, respectively in 1917-18. The area charged as irrigated was 6,837,673 acres against 7,358,829 acres in the previous year.

Class I. Productive works.

4. (1) There are sixteen works of this class, only one of which, the Toludur project, is still under execution. The canals of the Gōdāvari and the Kistna delta systems and the Kurnool-Cuddapah canal are used both for irrigation and navigation. The remaining class I works are purely irrigation systems.

Number of Works.

Toludur project (South Arcot district).—During the year under review fair progress was made with the construction of the bund. Nearly all the masonry works in the high level channel were completed, while those in other channels were in progress. The excavation of the high level channel was almost completed, and that of the main (low level) channel was in progress.

Works under construction.

More labour than usual was available during the year. The average number of coolies exceeded 1,000 in September and 1,500 in October, in consequence of the want of agricultural employment due to the drought. The expenditure during the year was Rs. 2,41,707 and to the end of the year Rs. 13,82,906, against the estimate of Rs. 32,90,900. The project is expected to come into operation in 1920-21.

Capital outlay.

(2) The capital outlay (direct and indirect) on productive works during the year was Rs. 7,82,998 against Rs. 7,41,489, the average of the triennium ending 1917-18. The expenditure was incurred mainly on the Gōdāvari and the Kistna delta systems, the Kurnool-Cuddapah canal and the Toludur project. Details of the works carried out are given in Chapter II. The Kurnool-Cuddapah canal and

the Barur tank not having fulfilled the conditions of a productive work, the capital expenditure on these systems is met from Provincial funds. The capital outlay to the end of the year on these two systems from both Imperial and Provincial funds was Rs. 2,35,16,855, excluding indirect charges, as shown below :—

	RS.
The Kurnool-Cuddapah canal—	
Imperial	2,18,63,620
Provincial	12,33,860
Total ...	2,30,97,480
The Barur tank—	
Imperial	4,02,176
Provincial	17,199
Total ...	4,19,375
Grand total ...	2,35,16,855

Length of canals.

(3) The total length of the main and branch canals of the productive systems at the end of the year was 3,898 miles. Of this length 1,023 miles were for irrigation and navigation combined, and the remainder for irrigation only. The length of distributaries was 8,283½ miles.

Area irrigated.

(4) The total area charged as irrigated (first and second crop) was 3,477,984 acres, or 48,847 acres less than in the previous year and 21,326 acres less than the average of the triennium ending 1917–18. The decrease occurred chiefly under first crop in the Cauvery delta system.

	First crop.	Second crop.
	ACS.	ACS.
1918–19	2,944,606	533,378
1917–18	3,002,950	523,881
Average of the triennium ending 1917–18.	2,998,815	500,495

Revenue.

(5) The gross revenue of the year, including that due to old irrigation, amounted to Rs. 1,58,00,081 against Rs. 1,57,97,996, the average of the previous triennium. Compared with the previous year, the revenue showed a decrease of Rs. 2,66,598, which occurred chiefly under the Cauvery delta system owing to the failure of the monsoon.

Working expenses.

(6) The gross working expenses of the year, inclusive of old maintenance charges, amounted to Rs. 29,31,461, or Rs. 3,77,564 less than the average of the previous triennium. As compared with the previous year, there was a fall of Rs. 4,80,308, which was due chiefly to the change introduced by the Government of India in the system of distributing the charges for Public Works establishment among the several Public Works major heads.

Financial results.

(7) The net revenue derived and the profit realized, after deducting interest charges, amounted to Rs. 86,20,968 and Rs. 57,51,243, against Rs. 85,08,051 and Rs. 57,39,288, respectively, the averages of the previous triennium.

The profit of the year after deducting interest charges, viz., Rs. 57,51,243, is 6·53 per cent on the capital outlay of Rs. 8,80,20,854. This return would be increased to 11·01 per cent if the Kurnool-Cuddapah canal and the Barur tank, which accounted for a total loss of Rs. 7,56,124, were excluded. The accumulated profits to the end of the year amounted to Rs. 17,33,61,646.

Revenue and working expenses per acre.

(8) The average revenue per acre amounted to Rs. 4·54 on the gross area, and Rs. 5·28 on new irrigation. The working expenses per acre were Re. 0·84 on the gross area and Rs. 1·24 on new irrigation.

Remissions.

(9) The remissions granted during the year amounted to Rs. 6,55,111 against Rs. 1,92,580 in the previous year.

Value of crops.

(10) The estimated value of crops amounted to Rs. 28,36,21,842 against Rs. 21,94,62,585 in the preceding year.

Class I. Protective works. Number of works.

5. (1) There are four protective works in the Presidency—

(i) The Rushikulya system in Ganjām.
(ii) The Bhavanasi tank project in Guntūr.
(iii) The Mopad reservoir project in Nellore.
(iv) The Venkatapuram tank in Kurnool.

The Rushikulya system and the Venkatapuram tank were in operation. The Bhavanasi tank project was completed during the year, and the Mopad Reservoir project was still under execution.

Works under construction.

Mopad reservoir project.—Fair progress was made with the reservoir bund. The excavation of the main channel was completed. A fourth branch channel was also completed. The progress of work during the year was retarded by heavy rains, cholera and influenza. The expenditure during the year was Rs. 1,71,297 and to the end of the year Rs. 20,94,500 against the estimate of Rs. 23,19,000. The project is expected to be completed and brought into operation in 1920–21.

Capital outlay.

(2) The capital outlay (direct and indirect) incurred during the year was Rs. 2,14,495, against Rs. 3,10,134 the average of the triennium ending 1917–18. The bulk of the outlay was spent on the Mopad reservoir and the Bhavanasi tank projects.

Lengths of canals.

(3) The lengths of the canals and distributaries of the protective systems at the end of the year were 86 miles and 151 miles, respectively.

Area irrigated.

(4) The area irrigated was 107,845 acres, against 106,676 acres the average of the previous triennium.

Revenue, working expenses, remissions and value of crops.

(5) The gross revenue including old irrigation revenue and the working expenses were Rs. 2,43,728 and Rs. 75,087, against Rs. 2,60,421 and Rs. 66,106, respectively, of the previous year. The net revenue, after deducting interest charges, showed a deficit of Rs. 1,41,339, against Rs. 1,07,943 in the preceding year. The remissions granted amounted to Rs. 4,099 against Rs. 1,215 in the previous year. The value of the crops raised under this class of works is estimated at Rs. 68,47,281 against Rs. 45,69,312 in the previous year.

Class Minor Works and Navigation Number of works.

6. (1) There are forty works of this class in the Presidency. The following five works have not been commenced :—

	Amount of estimate (direct and indirect).
	RS.
(i) Baguva project (Ganjām district)	7,93,695
(ii) Mahadevapuram project (Gōdāvari district)	1,06,400
(iii) Brughubhanda project (Guntūr district)	1,36,466
(iv) Chinna Tekur project (Kurnool district)	1,25,000
(v) Rajapuram tank project (Bellary district)	95,000

Items (i), (ii), (iv) and (v) have been sanctioned under '33. Famine relief' to be taken up only when the necessity for famine relief arises; while item (iii), although sanctioned under 'Provincial —43. Minor Works and Navigation', is also proposed to be undertaken only under similar circumstances.

The following three works were completed during the year :—

(i) Yellanur tank project.
(ii) Kocheruvu ,,
(iii) Siddapur ,,

Works under construction.

The Kaniyampalayam anicut project, in the Coimbatore district, and the Panjapatti reservoir project, in the Trichinopoly district, were still in progress.

Kaniyampalayam anicut project.—The anicut was almost completely restored. The progress of work was however hampered by floods and influenza. The expenditure during and to the end of the year was Rs. 31,737 and Rs. 80,987, respectively, against the estimate of Rs. 96,744. The project is expected to be completed during 1920–21.

Panjapatti reservoir project.—During the year under review the reservoir bund was practically completed. Though water could be stored in the reservoir up to F.T.L., the water level never rose to more than half a foot above the low level sluice, and consequently no land was irrigated. The expenditure during the year was Rs. 50,026 and to the end of the year Rs. 3,41,242, against the estimate of Rs. 4,04,600. The project is expected to be completed during 1919–20.

Navigation works.

The following four works are intended solely for navigation purposes :—

(1) Chilka lake canal.
(2) Ganjām-Gopalpur canal.
(3) Buckingham canal.
(4) Vedāranniyam canal.

The Chilka lake canal has been transferred to the Salt Department with effect from 1st April 1919.

Capital outlay.

(2) The capital outlay (direct and indirect) during the year was Rs. 1,22,375, against Rs. 2,17,807, the average of the previous triennium. The bulk of the outlay was incurred on the Kaniyampalayam anicut and the Panjapatti reservoir projects.

Length of canals.

(3) The total length of main and branch canals at the end of the year was 1,004¾ miles, of which 304½ miles were entirely for navigation purposes and the rest for irrigation. The length of distributaries was 492½ miles.

Area irrigated.

(4) The area irrigated during the year was 322,783 acres, against 363,541 acres the average of the previous triennium.

Revenue and working expenses.

(5) The gross revenue, inclusive of old irrigation revenue, amounted to Rs. 13,21,934, against Rs. 15,17,368 in the previous year and Rs. 14,83,262 the average of the actuals of the triennium ending 1917–18. The decrease occurred mainly under the Ganjam minor rivers, the Sagileru and the Palar anicut systems, besides a general fall under most other systems, all due to the unfavourable character of the season. The gross working expenses of the year, inclusive of old maintenance charges, amounted to Rs. 4,86,451, against Rs. 4,43,077 in the previous year and Rs. 4,17,316 the average of the previous triennium. Most of the increase was due to the large amount of silt clearance done in the Buckingham canal, as the season was favourable for the work.

Financial results.

(6) The net revenue due to improvements amounted to Rs. 2,53,880, against Rs. 4,74,045, the average of the previous triennium. This represents a return of 1·22 per cent on the capital outlay of Rs. 2,07,61,400 to the end of the year.

Revenue and working expenses per acre.

(7) The average revenue per acre irrigated under this class of works, excluding navigation works, amounted to Rs. 3·82 on the gross area and Rs. 5·68 on new irrigation. The working expenses came to Re. 0·87 per acre on the gross area and Rs. 2·14 on new irrigation.

Remissions.

(8) The remissions granted during the year amounted to Rs. 1,44,639 against Rs. 6,141 in the previous year and Rs. 7,701 the average of the previous triennium. The bulk of the remissions was granted under the Palar anicut system.

Value of crops.

(9) The estimated value of the crops amounted to Rs. 2,61,15,974, against Rs. 2,25,63,733 in the previous year.

Navigation canals.

Receipts.

7. (1) Navigation was carried on on the Chilka lake canal, the Dumagudem, Gōdāvari, Kistna, Kurnool-Cuddapah, Buckingham, West Coast and Vedaranniyam canals.

Excluding the Chilka lake and the West Coast canals, for which figures are not available, the total receipts amounted to Rs. 2,85,745 or Rs. 16,705 more than in the previous year. The increase occurred chiefly under the Godavari and the Buckingham canals and was due to the higher revenue realized from licence and raft fees, as the restrictions on railway traffic on account of war conditions continued during the year.

Traffic.

(2) The restrictions on railway traffic resulted in an increase in the number of passengers, 'ton mileage' and 'value of goods.'

Class III—Minor Works for which neither Capital nor Revenue Accounts are kept.

8. The outlay incurred on the area irrigated under and the revenue derived from this class of works are compared below with the figures of the previous year and the averages of the previous triennium :—

—	Outlay incurred.	Area irrigated.	Gross revenue.
	RS.	ACS.	RS.
During 1918–19	29,13,918	2,929,061	76,92,072
,, 1917–18	28,51,553	3,354,636	95,76,747
Average of the triennium ending 1917–18 ..	26,04,203	3,369,559	95,17,775

Tank Restoration Scheme Works.

9. The area in the Presidency to be investigated under the Tank Restoration Scheme is calculated to be about 103,750 square miles.

The area of minor basins entered upon at the beginning of the year was 88,612 square miles, of which 78,015 square miles had been investigated. During the year under review these areas were increased by 1,207 square miles and 965 square miles respectively, bringing the total to 84,819 square miles entered upon and 78,980 square miles investigated, the remaining 5,839 square miles being under investigation.

In the area completely investigated, works were executed for 72,454 square miles and in progress for 5,703 square miles. For the balance of 823 square miles works were not commenced.

Thus about 76·12 per cent of the total area of 103,750 square miles affected by the scheme had been investigated up to 31st March 1919, leaving at that date a balance of 24,770 square miles. The estimates sanctioned for Tank Restoration Scheme works during the year amounted to Rs. 3,92,128 against Rs. 3,08,624 in the previous year.

The total amount of estimates sanctioned from the beginning of the Tank Restoration Scheme operations up to the end of the year was Rs. 1,44,67,048, against which the total expenditure incurred was Rs. 1,25,71,995, excluding charges for establishment and tools and plant. The expenditure during the year amounted to Rs. 4,31,742.

Class IV—Agricultural Works.

10. The outlay incurred on, and the revenue derived from, this class of works are compared below with the averages of the previous triennium :—

	Outlay incurred.	Revenue derived.
	RS.	RS.
During 1918–19	8,31,413	91,963
During 1917–18	6,69,695	1,05,148
Average of the triennium ending 1917–18 ...	6,64,825	91,098

River conservancy operations were carried on in the Gōdāvari, Kistna, Cauvery, Coleroon and Tambraparni rivers.

Projects.

11. (1) The estimate for the Cauvery reservoir project was still under the consideration of the Government of India. The Vengalapuram project in the Nellore district, the Velgode project in the Kurnool district and the improvements to the Kurnool-Cuddapah canal were still under consideration.

Small projects.

(2) Plans and estimates for improvements to the Girisola channel in the Ganjām district were prepared, and investigation in connexion with improvements to the Jayamangalam channel and the Korathlala Tampara was in progress. The revenue aspect of the Vamsadhara project was still under examination by the local officers. In the Gōdāvari district the estimates for the extension of irrigation to the Coringa and Polavaram islands were still under revision. The plans and estimates for the distribution system of the Pratur pumping scheme in the Guntūr district were completed. The plans and estimates for resluicing the Amaravati channels in the Coimbatore district were still under consideration. The detailed investigation of a reservoir project on the Amaravati was approved and the establishment required for it was sanctioned. The readings of gauges in connexion with the Meengarai and the Malapuzha projects in the Malabar district were continued. In connexion with the scheme to render the Nilambur river navigable for the transport of forest produce, an estimate for the construction of an experimental dam in the river was under consideration. The detailed estimate for improvements to the Veeranam tank was under revision by the local officers. Detailed estimates for straightening the Uppanar were prepared. The estimates for works necessary to prevent damage by floods caused by the spill of the Vellar above the Shatiatope regulator and the estimate for widening the Ammapet bridge in connexion with the Chidambaram drainage scheme were held in abeyance owing to the difficulty in procuring steel work. Plans and estimates for improvements to the Vadavar were under the consideration of the Chief Engineer for Irrigation.

Character of the season.

12. Neither the south-west nor the north-east monsoon was favourable for agricultural operations, and the rainfall of the year was seriously in defect, which resulted in a general decrease in the area cultivated and in the revenue obtained. The average rainfall for the Presidency was 30·74 inches against 42·09 inches in 1917–18 and 38·94 inches, the average for the five years ending 1917–18.

Miscellaneous floods.

13. During the year the highest flood in the Gōdāvari was only 9·0 feet on the crest of the Dowlaishweram anicut (on 18th August 1918) against the recorded maximum of 17·0 feet in 1891 above the then crest level (the present crest is 0·75 feet higher). In the Kistna, the maximum flood level was 8·70 feet on the crest of the Bezwada anicut (on the 23rd September 1918) against the recorded

maximum flood of 23·50 feet in October 1903. In the Tungabhadra the highest reading was 3·30 feet on the crest of the Sunkesala anicut on the 21st September 1918, the recorded maximum being 9 feet on the 17th October 1889. The maximum depth over the Adinimoyapalle anicut across the Penner was 3 feet on the 24th September 1918, the highest recorded being 13·86 feet on the 26th October 1874. The Cauvery rose to 7·88 feet on the Cauvery dam north gauge on the 22nd August 1918 against the recorded maximum of 14·67 feet in July 1911.

Breaches and accidents.

14. There were no serious breaches or accidents during the year.

Ayacut maps.

15. The ayacut maps for the Kistna delta and the Kurnool-Cuddapah canal were nearing completion.

CHAPTER II—CLASS I. MAJOR PRODUCTIVE AND PROTECTIVE WORKS.

PRODUCTIVE WORKS.

No. 1. Nagavalli River System.

Capital outlay.

The expenditure under the head was Rs. 2,566 which was incurred chiefly on the following works :—

Works in progress.

(i) *Improvements to the Nagavalli head works (estimate Rs. 17,300).*—The work was completed at a cost of Rs. 9,879. The large saving was due to the fact that well foundations for toe wall originally proposed were subsequently given up.

(ii) *Excavating field distributaries (estimate Rs. 30,000).*—The outlay during and to the end of the year was Rs. 1,362 and Rs. 28,984 respectively.

Working expenses.

2. The expenditure under "Extensions and Improvements" amounted to Rs. 14,100 against Rs. 1,941, in the previous year. The expenditure under "Maintenance and Repairs" was Rs. 14,704 against Rs. 14,657, the average of the previous triennium. The increase in the expenditure under "Extensions and Improvements" was due to a large number of estimates for field distributaries, sanctioned under the head, having been executed during the year.

Area irrigated.

3. The area irrigated was as shown below :—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	19,622	20,191	20,855
Second crop	9,043	6,289	5,381

The extent of sugarcane cultivation was 210 acres.

Financial results.

4. The gross revenue excluding that due to old irrigation was Rs. 61,157 and the working expenses Rs. 40,303. The net revenue came to Rs. 20,854, which represents a return of 1·23 per cent on the capital outlay, against 1·69 per cent in the previous year.

General.

5. Though the rainfall was below normal, the whole ayacut was sufficiently supplied and good crops were raised. There were no floods of any consequence in the Nagavalli river during the year.

No. 2. Godavari Delta System.

Capital outlay.

6. The outlay (direct and indirect) was Rs. 1,76,244. The following were the more important works carried out during the year :—

Eastern and Central Deltas.

Works in progress.

(1) *Excavating a new approach channel to the Bobberlanka lock (estimate Rupees 61,200).*—The work was completed at a cost of Rs. 61,579.

(2) *Restoring the Kovur-Manjair Junction Canal (estimate Rs. 1,37,000).*—The outlay during the year was Rs. 1,473 and to the end of the year Rs. 38,304.

(3) *Improvements to the mouth of the Tuliabagha drain (estimate Rs. 31,709).*—The work was completed at a cost Rs. 30,542.

(4) *Protecting with steel sheet piles the lower margin of the impervious apron below the Dowlaishweram head sluice and constructing a retaining wall below the head sluice (estimate Rs. 29,948).*—The work was completed at a cost of Rs. 28,946.

(5) *Constructing an outfall sluice at 45 miles 2 furlongs 615 feet of the Vasista left bank at Pedatippa (estimate Rs. 13,900).*—The work was completed at a cost of Rs. 10,981.

(6) *Raising the groyne at the left flank of the Bobberlanka undersluice (estimate Rs. 6,049).*—The work was completed at a cost of Rs. 5,498.

(7) *Remodelling the Tossipudi north side channel (estimate Rs. 69,170)*—The outlay during the year was Rs. 6,256 and to the end of the year Rs. 8,963.

(8) *Excavating the Nedunur drain (estimate Rs. 4,800).*—The work was completed at a cost of Rs. 4,010.

(9) *Improvements to the Ainapur drain (estimate Rs. 1,45,300).*—The outlay during the year was Rs. 1,610 and to the end of the year Rs. 10,968. The work was kept in abeyance owing to financial restrictions.

(10) *Providing a flood bank along the right side of the Teki drain from below the straight cut to the Tallarevu lock (estimate Rs. 8,470).*—The work was started during the year and the outlay was Rs. 2,847.

Western Delta.

(11) *Improvements to the Yenamadurru drain from the short cut to the Gostanadi infall (estimate Rs. 3,73,500).*—The work was completed at a cost of Rs. 3,69,145.

(12) *Remodelling the Chinchinada channel (estimate Rs. 51,330).*—The outlay during the year was Rs. 10,323 and to the end of the year Rs. 29,069.

(13) *Constructing a lock and regulator on the Kakaraparru canal.*—The outlay to the end of the year was Rs. 35,723 against the estimate of Rs. 47,000.

(14) *Improvements to the Neelacodu and Bondada drains.*—The outlay during the year was Rs. 1,986 and to the end of the year Rs. 3,745 against the estimate of Rs. 13,450.

Working expenses.

7. (*a*) *Extensions and improvements.*—The outlay under this head amounted to Rs. 91,818 against Rs. 40,886 in the previous year and Rs. 38,171, the average of the previous triennium.

(*b*) *Maintenance and repairs.*—The expenditure was Rs. 3,48,854 against Rs. 3,00,061 in the previous year and Rs. 2,98,071, the average of the previous triennium.

The increased outlay under both "Extensions and improvements" and "Maintenance and Repairs" was due to the write-back to these heads of the expenditure incurred under "Tools and plant," in accordance with the recent orders of the Government of India.

Navigation.

8. The total receipts and maintenance charges amounted to Rs. 1,19,686 and Rs. 1,04,729 against Rs. 1,05,556 and Rs. 93,622 respectively in the previous year. Under 'ton-mileage' the figure was 10,070,078 against 6,055,552 in 1917-18. The value of goods carried was estimated at Rs. 17,00,90,749 against Rupees 11,25,48,109 in the previous year.

Area irrigated.

9. The area irrigated is compared below with that of the previous year and the average of the previous triennium.

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	756,376	751,948	759,412
Second crop	255,215	273,800	304,586

The increase under both first and second crop was due to the ryots cultivating as much land as possible owing to the high prices prevailing. The extent of sugarcane cultivation was 6,262 acres against 5,798 acres in the previous year.

Financial results.

10. The gross revenue excluding that due to old irrigation was Rs. 44,81,103, against Rs. 42,74,225 of the previous year and Rs. 42,00,763, the average of the previous triennium. Working expenses amounted to Rs. 8,67,417 against Rupees 9,45,550, the average of the previous triennium. The profits after deducting interest

charges amounted to Rs. 31,52,823, which is 20·61 per cent on the capital outlay against 18·70 per cent in the previous year and 18·55 per cent in 1916–17.

General. 11. The supply during the first crop season was generally good, though some difficulty was experienced at the tail end of the Eastern delta on account of scanty rainfall. There was however no failure of crops. In the Central delta, owing to low rainfall lands which are generally submerged during the rains fared well and yielded good crops. The supply during the second crop season was good and the outturn of crops satisfactory. During the second crop season some paddy was transplanted on alluvial and saline lands at an earlier period than usual to find out whether the yield would be affected. On alluvial soil these crops thrived well, but on saline lands they mostly failed.

The following table shows the dates of closure and of re-opening of the canals in the delta :—

Canals.	Date of closure.	Date of re-opening.
Eastern Delta canals	2nd May 1918.	1st June 1918.
Central Delta canals	15th April ,,	15th May ,,
Western Delta canals	1st May ,,	1st June ,,
Dumagudem canal	31st March ,,	10th June ,,

No. 3. Kistna Delta System.

Capital outlay. 12. The capital outlay (direct and indirect) under this head amounted to Rs. 93,324. The following were the more important works carried out during the year :—

Works in progress. (1) *Excavating the Lankalakalva Gunta drain.*—The work was completed at a cost of Rs. 5,655 against the estimate of Rs. 8,000.

(2) *Excavating the Ponnapalli channel and the Nadimpalli drain.*—The work was completed at a cost of Rs. 12,421 against the estimate of Rs. 13,000.

(3) *Improvements to the Bhattiprole drain.*—The work was completed at a cost of Rs. 25,599 against the estimate of Rs. 34,000.

(4) *Remodelling the Donepudi block.*—The outlay to the end of the year was Rs. 18,953 against the estimate of Rs. 23,200. The work was practically completed.

(5) *Improvements to the drainage of the Murukondapad block.*—(Estimate, Rs. 11,800). The outlay during the year was Rs. 6,413 and to the end of the year Rs. 6,657.

(6) *Raising and strengthening the right and left flood banks of the Kistna river.* (Estimate Rs. 56,400). The work was completed at a cost of Rs. 56,131.

Working expenses. 13. (*a*) *Extensions and improvements.*—The outlay was Rs. 26,789 against Rs. 55,481 in the previous year and Rs. 45,734, the average of the previous triennium. In 1917–18 a considerable sum was spent on 'Diverting the right flood bank of the Kistna river at Pratur.'

(*b*) *Maintenance and repairs.*—A sum of Rs. 3,10,300, was spent under this head against Rs. 2,41,851 in 1917–18 and Rs. 2,61,711, the average of the previous triennium. The reason given in paragraph 7 above under Gōdāvari delta system also holds good for the increase in the expenditure under this head.

Navigation. 14. The total receipts and charges amounted to Rs. 73,439, and Rs. 1,05,927 against Rs. 78,275 and Rs. 75,253 respectively in the previous year. The figure under 'ton-mileage' was 3,730,895 against 5,328,773 in 1917–18. The value of goods carried was Rs. 12,31,83,270¼ against Rs. 5,74,89,712 in the previous year. The increase under 'charges' was mainly due to the payment of war allowance sanctioned for the navigation establishment.

Area irrigated. 15. The area irrigated compared with that in the previous year and the average of the previous triennium as shown below :—

Crop.	Average of the triennium ending 1917–18.	During 1917–18.	During 1918–19.
	ACS.	ACS.	ACS.
First crop	722,842	728,378	718,018
Second crop	3,364	5,678	6,154

The decrease under first crop was due to the unfavourable character of the season. The extent of sugarcane cultivation was 47 acres against 25 acres in 1917–18.

Financial results. 16. The gross revenue exclusive of that due to old irrigation amounted to Rs. 35,81,226, and the working expenses to Rs. 7,08,770. The profits after paying the interest charges amounted to Rs. 23,35,528, which represents a return of 14·13 per cent on the capital outlay against 14·35 per cent in the previous year and 14·02 per cent in 1916–17.

General. 17. The rainfall during the year was much below normal, the south-west monsoon having almost completely failed. The late freshes in the river led to late transplantation. In spite of the great scarcity of water, the bulk of the ayacut was successfully transplanted. On some of the lowlying lands bordering on the Colair lake a second crop was grown in the latter part of the season.

The following table shows the dates of closure and of re-opening of the canals in the delta :—

Canals.	Date of closure.	Date of re-opening.
Eastern Delta canals	7th April 1919	1st June 1919.
Western Delta canals	16th March 1919	1st ,, ,,

No. 4. Divi Pumping System.

Capital outlay. 18. The capital outlay amounted to Rs. 26,962. The following were the more important works carried out during the year :—

Works in progress. (1) *Improvements to the drainage channel of the Central basin* (*Estimate Rs.* 22,000).—The work was completed at a cost of Rs. 20,242.

(2) *Improvements to the drainage of the Uppukalva basin* (*Estimate* Rs. 19,500).—The expenditure to the end of the year was Rs. 17,377.

(3) *Improvements to the Sitapathi tank drainage basin.*—The work was completed at a cost of Rs. 5,630 against the estimate of Rs. 7,964.

Working expenses. 19. (*a*) *Extensions and improvements.*—The expenditure under the head amounted to Rs. 1,806 against Rs. 2,054 in the previous year and Rs. 3,301 in 1916–17.

(*b*) *Maintenance and repairs.*—The outlay was Rs. 76,734, against Rs. 47,378 in the previous year and Rs. 42,401, the average of the previous triennium. The increased expenditure was mainly due to the large amount of pumping necessitated by the poor rainfall.

Area irrigated. 20. The area irrigated was as shown below :—

Crop.	Average of the triennium ending 1917–18.	During 1917–18.	During 1918–19.
	ACS.	ACS.	ACS.
First crop	28,582	32,139	31,440
Second crop	4	..	3

The decrease as compared with the previous year is attributed mainly to the prohibition of sivai-jamma cultivation.

Financial results. 21. The gross revenue and working expenses amounted to Rs. 1,58,864 and Rs. 1,12,933 respectively, against Rs. 1,68,415 and Rs. 66,183 in the previous year. The net revenue was Rs. 45,931 which is 2·32 per cent on the capital outlay.

General. 22. The rainfall during the year was very poor being only 18·28 inches, the lowest on record since 1908. In November, however, there was a total fall of 15·51 inches, which saved the crops, as the river was turning brackish at the time, and pumping might therefore have had to be stopped by the 5th November before the crops had fully eared. The first freshes in the river at the pumping station came down on the 25th May and pumping for seed-beds was started on the 5th June. Transplantation commenced on the 4th July and was completed by the 4th September. The level of the river was abnormally low almost throughout the pumping season, which involved, on account of the increased lift, considerable expenditure in liquid fuel. The irrigation season lasted for 152 days against 169 days and 167 days in 1917–18 and 1916–17 respectively. Pumping was necessary for 136 days against

121 days in 1917–18. Owing to the low level of the river there was no direct supply from the river during the season. On 16 days no supply was required for the ayacut.

No. 5. Penner River Canals System.

Capital outlay.

23. The capital outlay (direct and indirect) amounted to Rs. 11,117, which was incurred chiefly on the following works :—

Works in progress.

(1) *Excavating field channels from the branch channel of the Unyalakalva.*—The work was completed at a cost of Rs. 10,671 against the estimate of Rs. 10,660.

(2) *Excavating a supply channel to the Mudivertipulem tank.*—The work was completed at a cost of Rs. 1,794 against the estimate of Rs. 2,050.

(3) *Constructing a weir in the Nelatur large tank.*—The work was completed at a cost of Rs. 2,154 against the estimate of Rs. 2,150.

(4) *Improvements to the Utukur tank supply channel.*—This work was started during the year under an estimate of Rs. 2,460, the outlay on it being Rs. 1,930.

Working expenses.

24. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 2,970 and Rs. 60,554 respectively, against Rs. 3,864 and Rs. 56,800 respectively, the averages of the previous triennium.

Area irrigated.

25. The area irrigated compares as shown below :—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	153,637	157,694	153,286
Second crop	34,627	40,546	38,471

The extent of indigo cultivation was 3,206 acres against 7,866 acres in 1917–18. The decrease is attributed to the unfavourable character of the season.

Financial results.

26. The gross revenue after deducting the old irrigation revenue was Rupees 6,31,315 against Rs. 6,28,127 in the previous year and Rs. 6,05,948, the average of the previous triennium. The working expenses amounted to Rs. 72,439 against Rs. 1,05,384 in the previous year. The profit after deducting interest charges came to Rs. 3,60,098, which represents a return of 5·35 per cent on the capital outlay, against 4·84 per cent in the previous year, and 4·38 in 1916–17.

No. 6. Kurnool-Cuddapah Canal.

Capital outlay.

27. The canal as a whole not having fulfilled the conditions of a productive public work, the current capital outlay thereon is met from Provincial funds, as in the case of ("Minor works for which capital and Revenue accounts are kept"). The expenditure under the capital account during the year was Rs. 1,72,828 which was incurred chiefly on the following works :—

Works in progress.

(1) *Providing an impervious apron in front of the anicut across the Penner at Adinimayapalli (Estimate Rs. 62,000).*—The work was started during the year and the outlay was Rs. 42,295.

(2) *Chepad project (Estimate Rs. 7,19,169 for 'works').*—The outlay during the year was Rs. 39,965 and to the end of the year Rs. 6,48,868.

(3) *Improvements to the calingulah at 61 miles 13 chains of the Kurnool-Cuddapah Canal. (Estimate Rs. 47,000).*—The work was completed at a cost of Rs. 44,700.

Working expenses.

28. Under 'Extensions and improvements' the expenditure was Rs. 46,368, against Rs. 39,567 in the previous year and Rs. 15,124 the average of the previous triennium. The outlay under 'Maintenance and repairs' amounted to Rs. 85,855 against Rs. 1,16,842 in 1917–18 and Rs. 91,250, the average of the triennium ending 1917–18. The heavy expenditure under 'Maintenance and repairs' in the previous year was due to repairs done to the canal on account of the damage caused by floods.

Navigation.

29. Particulars of navigation receipts and charges, 'ton-mileage' and value of goods carried on the canal are given in statistical Statement D-I.

Area irrigated.

30. The area irrigated was as shown below :—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	56,147	59,176	68,981
Second crop	12,136	12,046	13,943

Financial results.

31. The gross revenue and working expenses amounted to Rs. 3,01,385 and Rs. 2,41,186, against Rs. 2,51,652 and Rs. 1,61,360, respectively, the averages of the previous triennium. The net revenue was Rs. 60,199, and this amount fell short of the interest paid during the year by Rs. 7,41,160, which is 3·20 per cent of the capital outlay, against 3·26 per cent in 1917–18 and 2·75 per cent in 1916–17.

No. 7. Barur Tank.

Capital outlay.

32. As the work has not fulfilled the conditions of a productive public work, the capital outlay thereon is being met from Provincial revenues. There was no expenditure under the head during the year under review.

Working expenses.

33. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 233 and Rs. 5,067, against Rs. 145 and Rs. 4,689 respectively, the averages of the triennium ending 1917–18.

Area irrigated.

34. The area irrigated under the tank was as shown below :—

Crop	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	3,752	3,754	2,799
Second crop	2,313	1,584	777

Financial results.

35. The gross revenue exclusive of that due to old irrigation amounted to Rs. 7,228 and the working expenses to Rs. 7,590. The net deficit including interest charges was Rs. 14,964, which is 3·38 per cent on the capital outlay, against 0·17 per cent in the previous year and 1·11 per cent in 1916–17.

General.

36. The highest flood of the year in the Ponniar was 1·40 feet over the crest of the Nedungal anicut, against the maximum recorded flood of 11·78 feet in 1903. The rainfall during the year was 25·13 inches.

No. 8. Poiney Anicut System.

Capital outlay.

37. The expenditure under this head amounted to Rs. 7,349, which was incurred on the following works :—

Works in progress.

(1) *Improvements to the Nellikuppam jungle stream and the southern channel of the Poiney anicut system.*—The outlay to the end of the year was Rs. 3,855 against the estimate of Rs. 13,160.

(2) *Improvements to the Perumutchi tank.*—The work was completed at a cost of Rs. 2,178 against the estimate of Rs. 2,200.

Working expenses.

38. The outlay under 'Extensions and improvements' was Rs. 2,503 and under 'Maintenance and repairs,' Rs. 11,004, against Rs. 2,225 and Rs. 9,393 respectively, the averages of the previous triennium.

Area irrigated.

39. The area irrigated compares as shown below :—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	24,068	23,657	15,000
Second crop	8,151	7,014	1,989

The decrease under both the first and the second crop was due to the unfavourable character of the season. The extent of sugarcane cultivation was 31 acres.

Financial results.

40. The gross revenue amounted to Rs. 27,900, and this fell short of the amount to be credited to old irrigation by Rs. 10,100. The working expenses came to

Rs. 14,582. The net deficit including interest charges was Rs. 33,130, which is 13·10 per cent on the capital outlay, against a net profit of 19·81 per cent in the previous year and 21·88 per cent in 1916-17.

General. 41. There was no flood in the Poiney river during the year and water did not pass over the crest of the anicut. The rainfall during the year was also insufficient and consequently a large extent of wet land was left uncultivated.

No. 9. Cheyyar Anicut System.

Capital outlay. 42. There was no expenditure under this head.

Working expenses. 43. The expenditure under 'Extensions and improvements' was Rs. 6,651 and under 'Maintenance and repairs' Rs. 31,753, against Rs. 3,333 and Rs. 29,674 respectively, the averages of the triennium ending 1917-18. The increased outlay during the year was due to the execution of a large number of works owing to the favourable condition of the working season.

Area irrigated. 44. The area irrigated under the system was as shown below :—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	20,873	20,870	19,380
Second crop	13,006	11,480	5,598

The decrease was due to the unfavourable character of the season. The extent of sugarcane cultivation was 60 acres.

Financial results. 45. The gross revenue and working expenses amounted to Rs. 47,803 and Rs. 53,520, respectively. The net deficit including interest charges paid during the year was Rs. 21,039, equivalent to 4·81 per cent of the capital outlay, against 1·88 per cent in 1917-18.

General. 46. The highest flood for the year occurred on the 10th August 1918, when 2·80 feet of water passed over the crest of the anicut, the maximum recorded being 12·90 feet on the 31st December 1903.

No. 10. Tirukkoyilur Anicut System.

Capital outlay. 47. No expenditure was incurred under this head.

Working expenses. 48. The outlay under 'Extensions and improvements' was Rs. 1,983 and under 'Maintenance and repairs' Rs. 19,660, against Rs. 764 and Rs. 13,184 respectively, the averages of the previous triennium. The increase under the latter head was due to larger repairs done to tanks affected by cyclone.

Area irrigated. 49. The area irrigated is as shown below :—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	26,420	26,671	23,772
Second crop	4,892	5,168	4,154

The decrease was due to inadequate rainfall. The extent of sugarcane cultivation was 524 acres against 411 acres in the previous year.

Financial results. 50. The gross revenue and working expenses amounted to Rs. 40,585 and Rs. 26,307, respectively. The profit after paying interest charges was Rs. 1,608, which is 0·40 per cent on the capital outlay, against 6·45 per cent in the previous year.

General. 51. There were no floods during the year. Although there were heavy rains along the coast during the north-east monsoon, the rainfall over the Penner basin was scanty and consequently the outturn of crops was poor.

No. 11. Shatiatope Anicut System.

Capital outlay. 52. There was no outlay under this head.

Working expenses. 53. The expenditure under 'Extensions and Improvements' and 'Maintenance and Repairs' was Rs. 1,565, and Rs. 16,896, against Rs. 688 and Rs. 17,453 respectively, the averages of the previous triennium.

Area irrigated. 54. The area irrigated was as follows :—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	31,360	31,439	30,304
Second crop	4,502	5,337	5,252

The extent of sugarcane cultivation was 356 acres.

Financial results. 55. The gross revenue and working expenses amounted to Rs. 1,22,287 and Rs. 30,565, respectively. The profit after deducting interest charges was Rs. 59,855, equivalent to a return of 6·15 per cent on the capital outlay, against 5·66 per cent in the previous year and 4·93 per cent in 1916-17.

General. 56. The floods were normal. The highest flood level during the year was 8·30 feet over the crest of the anicut on the 22nd November 1918, against the recorded maximum of 19·50 feet in 1880. The rainfall was heavy but untimely, and difficulty was therefore experienced in the giving of an adequate supply of water for irrigation throughout the year.

No. 12. Lower Coleroon Anicut System.

Capital outlay. 57. The expenditure during the year amounted to Rs. 2,021 which was incurred on the construction of a drainage sluice in the Coleroon left bank at mileage 98—6—7.

Working expenses. 58. (*a*) *Extensions and Improvements.*—The outlay was Rs. 1,553 against Rs. 4,544 in the previous year and Rs. 5,444 the average of the previous triennium.

(*b*) *Maintenance and Repairs.*—The expenditure amounted to Rs. 73,255 against Rs. 48,428 in 1917-18 and Rs. 41,521 the average of the previous triennium. The large outlay was due to urgent protective works carried out during the year.

Area irrigated. 59. The area irrigated was as shown below :—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	109,442	110,178	107,691
Second crop	4,539	5,014	5,558

The extent of sugarcane cultivation was 116 acres against 326 acres in 1917-18.

Financial results. 60. The gross revenue and working expenses amounted to Rs. 2,95,064 and Rs. 1,12,842, respectively, against Rs. 3,02,313 and Rs. 80,307, the averages of the previous triennium. The profit after deducting interest charges was Rs. 1,17,095, representing a return of 6·03 per cent on the capital outlay, against 7·88 per cent in 1917-18 and 8·21 per cent in 1916-17.

General. 61. The maximum flood level at the Lower Anicut was 9·1 feet on the 24th August 1918, against the recorded maximum of 17·10 feet in 1896. The season was unfavourable for irrigation owing to absence of timely supply in the rivers.

No. 13. Toludur Project.

Project under construction. 62. Details regarding this project are given under paragraph 4 of Chapter I.

No. 14. Cauvery Delta System.

Capital outlay. 63. The expenditure under this head amounted to Rs. 32,772, which was incurred chiefly on the following works :—

Works in progress. (1) *Improvements to the Vellapalem Uppanar.*—The work was completed at a cost of Rs. 43,330 against the estimate of Rs. 46,900.

(2) *Improvements to the tail end of the Vellapar.*—The outlay during the year was Rs. 5,002 and to the end of the year Rs. 15,581 against the estimate of Rs. 16,000.

(3) *Improvements to the Vali odai.*—The work was completed at a cost of Rs. 10,777 against the estimate of Rs. 12,300.

(4) *Constructing a permanent gauging station at the Upper Anicut.*—The work was completed at a cost of Rs. 8,950 against the estimate of Rs. 10,800.

(5) *Improvements to the Eravanjeri dam across the South Puthar.*—The work was completed at a cost of Rs. 6,960 against the estimate of Rs. 7,500.

(6) *Excavating a new side channel from above the Pandi regulator across the Marakkakorayar.*—The work was completed at a cost of Rs. 10,985 against the estimate of Rs. 12,500.

Working expenses. 64. (*a*) *Extensions and Improvements.*—The expenditure was Rs. 13,286 against Rs. 23,491 in 1917–18 and Rs. 32,961 the average of the previous triennium.

(*b*) *Maintenance and Repairs.*—The outlay was Rs. 1,90,356 against Rs. 1,49,921 in the previous year and Rs. 1,38,258 the average of the past three years. The increase was due to protective works to river embankments carried out on a larger scale.

Area irrigated. 65. The area irrigated compares as shown below :—

Crop.	Average of the triennium ending 1917–18.	During 1917–18.	During 1918–19.
	ACS.	ACS.	ACS.
First crop	892,478	892,651	840,985
Second crop	84,780	86,931	84,796

The decrease was due to the unfavourable character of the season. The extent of sugarcane cultivation was 673 acres against 872 acres in 1917–18.

Financial results. 66. The gross revenue exclusive of that due to old irrigation was Rs. 6,39,362, against Rs. 10,00,208 in 1917–18 and Rs. 9,81,411, the average of the previous triennium. The working expenses amounted to Rs. 1,75,384, against Rs. 1,84,021 in the previous year and Rs. 1,79,009, the average of the past three years. The net revenue of the year was Rs. 4,63,978, against Rs. 8,02,432, the average of the previous triennium. The profit after deducting interest charges amounted to Rs. 5,17,264, which is 7·17 per cent on the capital outlay, against 15·21 per cent in 1917–18 and 14·85 per cent in 1916–17.

General. 67. The season was unfavourable for irrigation and there was untimely supply in the rivers.

No. 15. Periyar System.

Capital outlay. 68. The capital outlay during the year amounted to Rs. 9,295, which was incurred on the following works :—

(1) *Raising the platform, altering the gearing and roller arrangements and shifting the head of the Periyar regulator.*—The work was completed at a cost of Rs. 68,379, against the estimate of Rs. 66,200.

(2) *Improvements to the Anaiyur distributary.*—The work was completed at a cost of Rs. 17,724, against the estimate of Rs. 17,183.

Working expenses 69. (*a*) *Extensions and improvements.*—The expenditure amounted to Rs. 4,558 against Rs 4,491 in the previous year and Rs. 7,317 the average of the previous triennium.

Area irrigated. (*b*) *Maintenance and repairs.*—The outlay was Rs. 94,052 against Rs. 93,551 in 1917–18 and Rs. 94,958, the average of the previous triennium. The amount included Rs. 42,965, the rent paid annually to the Travancore Darbar for the land occupied by the Periyar lake.

70. The area irrigated was as shown below :—

Crop.	Average of the triennium ending 1917–18.	During 1917–18.	During 1918–19.
	ACS.	ACS.	ACS.
First crop	128,872	128,745	128,536
Second crop	45,022	44,736	44,570

Financial results. 71. The gross revenue excluding that due to old irrigation amounted to Rs. 7,51,802 and the working expenses to Rs. 1,45,883. The net revenue was thus Rs. 6,05,919, against Rs. 4,64,445 in 1917–18 and Rs. 4,46,312 the average of the previous triennium. The profit after deducting interest charges was Rs. 2,47,234, which is 2·32 per cent on the capital outlay against 1·00 per cent in the previous year and 0·70 per cent in 1916–17.

General. 72. The rainfall was below the average, but it was sufficient for agricultural purposes. The highest flood during the year in the Vaigai at Peranai was recorded on the 17th October 1918. The front reading at the regulator with ten shutters raised 5 feet was 10·5 feet above the sill and the rear reading was 9·1 feet.

The highest level in the Periyar lake was 152·05 on the 1st June 1918. The head sluice was opened for irrigation with the lake full on the 13th June 1918. Owing to the backward state of cultivation in consequence of late rains and influenza the head sluice was not closed till the 1st April 1919.

No. 16. Srivaikuntam Anicut System.

Capital outlay. 73. The expenditure under this head amounted to Rs. 6,813 which was incurred on the work of 'Improvements to the Attur and Kiranur tanks and supply channel.' The outlay to the end of the year was Rs. 42,159, against the estimate of Rs. 56,800.

Working expenses. 74. (*a*) *Extensions and improvements.*—The expenditure amounted to Rupees 1,983 against a minus outlay of Rs. 1,070 in 1917–18 and Rs. 2,140, the average of previous triennium.

(*b*) *Maintenance and repairs.*—The outlay under the head was Rs. 15,748 against Rs. 32,406, in 1917–18 and Rs. 59,306, the average of the past three years.

Area irrigated. 75. The area irrigated compares as shown below :—

Crop.	Average of the triennium ending 1917–18.	During 1917–18.	During 1918–19.
	ACS.	ACS.	ACS.
First crop	24,944	25,259	24,914
Second crop	18,901	18,328	12,146

The decrease under second crop was due to want of timely rains

Financial results. 76. The gross revenue and working expenses amounted to Rs. 1,47,764 and Rs. 25,606 respectively, against Rs. 1,53,670 and Rs. 87,447, the averages of the previous triennium. The net revenue for the year amounted to Rs. 1,22,158. The profit after deducting interest charges was Rs. 65,408, representing a return of 3·76 per cent on the capital outlay against 2·96 per cent in 1917–18.

General. 77. The rainfall was below the average. The highest flood in the Tambraparni was recorded on the 27th January 1919, the depth on the Srivaikuntam anicut crest being 4·47 feet. The highest recorded depth was 12·50 feet on the 4th December 1914.

PROTECTIVE WORKS.

No. 17. Rushikulya System.

Capital outlay. 78. The expenditure under this head amounted to Rs. 12,549, which was incurred on the following works :—

Works in progress (1) *Improvements to the apron in rear of the scouring sluice of the Gumsur anicut.*—The work was completed at a cost of Rs. 3,181, against the estimate of Rs. 3,100.

(2) *Improvements to the Russelkonda reservoir surplus channel.*—The outlay during the year was Rs. 2,804 and to the end of the year Rs. 4,015 against the estimate of Rs. 7,180.

(3) *Improvements to the outfall nullah below the aqueduct at 1 mile 6 furlongs of the Mahanadi canal.*—The work was completed at a cost of Rs. 6,025 against the estimate of Rs. 9,000.

(4) *Constructing a weir at the right flank of the Bogala tank of Bombalapatti.*—The work was started during the year under an estimate of Rs. 1,310 and the outlay was Rs. 852.

Working expenses.

79. (*a*) *Extensions and improvements.*—The expenditure amounted to Rs. 1,536 against Rs. 4,630, the average of the previous triennium.

(*b*) *Maintenance and repairs.*—The outlay was Rs. 43,690 against Rs. 41,128 in 1917–18 and Rs. 48,549, the average of the past three years.

Area irrigated.

80. The area irrigated was as shown below:—

Crop.	Average of the triennium ending 1917-18.	During 1917-18.	During 1918-19.
	ACS.	ACS.	ACS.
First crop	104,721	105,112	105,849
Second crop	2,555	1,784	1,996

The extent of sugarcane cultivation was 1,057 acres against 1,083 acres in the previous year.

Financial results.

81. The gross revenue and working expenses, excluding those relating to old irrigation, amounted to Rs. 1,76,731 and Rs. 66,127 respectively. The net revenue, viz., Rs. 1,10,604, fell short of the interest paid during the year by Rs. 52,511, equivalent to 1·03 per cent of the capital outlay, against 0·55 per cent in the previous year and 1·13 per cent in 1916–17.

General.

82. The average rainfall over the system was 46·75 inches against 55·84 inches in the previous year. There were no heavy floods during the year. Owing to the failure of the rains, there was a heavy demand on the reservoir.

No. 18. Bhavanasi Tank Project.

Capital outlay and area irrigated.

83. The project was completed during the year. The expenditure to the end of the year was Rs. 2,60,439 against the estimate of Rs. 2,09,000. The area irrigated was 347 acres.

No. 19. Mopad Reservoir Project.

Projects under construction.

84. Details regarding this project are given in paragraph 5 of Chapter I.

No. 20. Venkatapuram Tank Project.

Capital outlay.

85. The project was completed at a cost of Rs. 3,81,586 against the estimate of Rs. 3,46,600.

Working expenses.

86. A small sum of Rs. 877 was spent under this head.

Area irrigated and General.

87. The tank did not get an appreciable supply during the year owing to poor rainfall, and the area of wet cultivation under it was only 34 acres, against 182 acres in the previous year.

CHAPTER III.—CLASS II, MINOR WORKS AND NAVIGATION FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

No. 21. Ganjam Minor Rivers System.

Capital outlay.

There was no expenditure under this head.

Working expenses.

2. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 727 and Rs. 15,806 respectively, against Rs. 3,650 and Rs. 16,242 in the previous year.

Area irrigated.

3. The area irrigated was 63,346 acres under first crop and 6,669 acres under second crop, against 62,703 acres and 12,232 acres respectively in the previous year. The decrease under second crop was due to the unfavourable character of the season. The extent of sugarcane cultivation was 583 acres.

Financial results.

4. The gross revenue exclusive of that due to old irrigation amounted to Rs. 51,302 and the working expenses to Rs. 19,627. The net revenue, viz., Rs. 31,675, represents a return of 11·80 per cent on the capital outlay, against Rs. 41,892, or 15·61 per cent, in the previous year.

No. 22, Muniyeru System.

Capital outlay.

5. No expenditure was incurred under this head.

Working expenses.

6. The outlay under 'Extensions and Improvements' was Rs. 233 and under 'Maintenance and Repairs', Rs. 5,942, against Rs. 503 and Rs. 6,616 respectively in 1917–18.

Area irrigated.

7. The area irrigated under first crop was 6,403 acres and under second crop 19 acres, against 6,261 acres and 19 acres respectively in the previous year.

Financial results.

8. The gross revenue and working expenses amounted to Rs. 21,849 and Rs. 10,476 respectively. The net revenue was therefore Rs. 11,373, or 1·89 per cent of the capital outlay, against Rs. 13,953 or 2·33 per cent in 1917–18.

No. 23, Peddanayudu Tank of Chinnaraopalem.

Capital outlay.

9. There was no outlay under this head

Working expenses.

10. A small sum of Rs. 70 was spent under 'Maintenance and Repairs', while there was no expenditure under 'Extensions and Improvements.'

Area irrigated.

11. The area irrigated was 41 acres under first crop, against 129 acres in the previous year.

Financial results.

12. The net revenue after deducting working expenses amounted to Rs. 834 or 1·31 per cent of the capital outlay, against Rs. 386, or 0·61 per cent in the preceding year.

No. 24, Bhrugubhanda Project.

Project in abeyance.

13. This work has been ordered to be taken up only when necessity for famine relief arises and has therefore not been commenced.

No. 25, Jangamaheswarapuram Tank.

Capital outlay.

14. There was no expenditure under this head.

Working expenses.

15. An expenditure of Rs. 159 was incurred under 'Maintenance and Repairs' against Rs. 101 in 1917–18.

Area irrigated.

16. The area irrigated was 785 acres under first crop and 18 acres under second crop, against 785 acres and 67 acres respectively in the previous year.

Financial results.

17. The net revenue after deducting working expenses amounted to Rs. 1,086 or 1·52 per cent on the capital outlay, against Rs. 1,547 or 2·16 per cent in the previous year.

No. 26, Atmakur Tank.

Capital outlay.

18. There was no outlay under this head.

Working expenses.

19. The expenditure under 'Maintenance and Repairs' amounted to Rs. 71 against Rs. 101 in 1917–18.

Area irrigated.

20. The area irrigated was 757 acres under first crop and 182 acres under second crop, against 671 acres and 1 acre respectively in the previous year.

Financial results.

21. The net revenue after deducting working expenses was Rs. 3,129, representing a return of 2·54 per cent on the capital outlay, against Rs. 2,577 or 2·09 per cent in the previous year.

No. 27, Dondapad Tank.

Capital outlay. 22. No expenditure was incurred under this head.

Working expenses. 23. An expenditure of Rs. 1,863 was incurred under 'Maintenance and Repairs,' against Rs. 403 in the previous year.

Area irrigated. 24. The area irrigated was 186 acres first crop against 403 acres first crop and 96 acres second crop, in 1917–18. The decrease was due to the deficiency of rainfall during the south-west monsoon.

Financial results. 25. The gross revenue amounted to Rs. 725 and the working expenses to Rs. 2,979. There was thus a deficit of Rs. 2,254 or 1·60 per cent of the capital outlay, against a net revenue of Rs. 1,393 or 0·99 per cent in the previous year.

No. 28, Hajipuram Tank.

Capital outlay and working expenses. 26. There was no expenditure under these heads.

Area irrigated. 27. The area irrigated was 639 acres first crop and 27 acres second crop, against 679 acres and 487 acres respectively in the previous year. The decrease under the second crop was due to the unfavourable character of the season.

Financial results. 28. The net revenue amounted to Rs. 3,061 or 0·98 per cent, on the capital outlay, against Rs. 5,390 or 1·73 per cent in 1917–18.

No. 29, Ponnalur Tank.

Capital outlay. 29. The expenditure under the head amounted to Rs. 5,674, which was incurred on improvements to the Ponnalur tank and supply channel and excavating distributaries from No. 2 channel of the tank.

Working expenses. 30 A sum of Rs. 3,500 was spent under 'Maintenance and Repairs,' against Rs. 28 in the previous year.

Area irrigated. 31. The area irrigated was 821 acres first crop and 103 acres second crop, against 807 acres and 376 acres respectively in 1917–18. The decrease under second crop was due to the unfavourable character of the season.

Financial results. 32. There was a deficit of Rs. 235 or 0·11 per cent of the capital outlay, against a net revenue amounting to Rs. 4,486 or 2·16 per cent in the previous year.

No. 30, Anamasamudram-Beraperu Tank.

Capital outlay and working expenses. 33. There was no expenditure under these heads.

Area irrigated. 34. The area irrigated was 998 acres first crop and 2 acres second crop, against 999 acres and 438 acres, respectively, in 1917–18. The decrease under second crop was due to the unfavourable character of the season.

Financial results. 35. The net revenue amounted to Rs. 1,332, which is 1·81 per cent on the capital outlay, against Rs. 2,251 or 3·06 per cent in the previous year.

No. 31, Yerur Tank.

Capital outlay. 36. No expenditure was incurred under this head.

Working expenses. 37. An expenditure of Rs. 3,459 was incurred under 'Maintenance and Repairs.'

Area irrigated. 38. The area irrigated was 1,346 acres under first crop, against 1,352 acres first crop and 1 acre second crop in the previous year.

Financial results. 39. There was a deficit of Rs. 1,196 or 1·89 per cent of the capital outlay, against a net revenue of Rs. 3,000 or 4·74 per cent in 1917–18.

No. 32, Sagileru System.

Capital outlay. 40. There was no expenditure under this head.

Working expenses. 41. The expenditure under 'Extensions and Improvements' and 'Maintenance and Repairs' amounted to Rs. 83 and Rs. 1,226 respectively, against Rs. 1,953 and Rs. 2,853 in the previous year.

Area irrigated. 42. The area irrigated was 3,822 acres first crop and 315 acres second crop, against 4,357 acres and 2,994 acres respectively in 1917–18. The decrease was due to the deficient rainfall during the year.

Financial results. 43. There was a deficit of Rs. 8,015 or 1·72 per cent of the capital outlay, against a net revenue of Rs. 7,185 or 1·55 per cent in the previous year.

No. 33, Nagavaram Anicut and Supply Channel.

Capital outlay and working expenses. 44. No expenditure was incurred under these heads.

Area irrigated. 45. The area irrigated was 904 acres against 942 acres in 1917–18.

No. 34, Kocheruvu Tank Project.

Capital outlay. 46. An expenditure of Rs. 5,248 was incurred on the excavation of distributaries. The total expenditure on the project to the end of the year was Rs. 1,34,393.

Area irrigated. 47. The area irrigated was 30 acres against 94 acres in the previous year.

No. 35, Siddapur Tank Project.

Progress of work. 48. The reservoir bund was completed except for a gap of 400 feet which was left to act as a temporary escape. The major portion of the excavation of distributaries was pushed through and completed during the year. No water however surplused from the tank on account of scanty rainfall. An extent of about 660 acres was irrigated during the year against 53 acres in the previous year.

Area irrigated.

Capital outlay. The expenditure on the project to the end of the year amounted to Rs. 8,44,891, against the estimate of Rs. 9,48,600.

No. 36, Cumbum Tank.

Capital outlay. 49. There was no expenditure under this head.

Working expenses. 50. The outlay under 'Extensions and Improvements' and 'Maintenance and Repairs' amounted to Rs. 422 and Rs. 6,197 against Rs. 20 and Rs. 2,020 respectively in the previous year.

Area irrigated. 51. The area irrigated was 5,621 acres first crop and 2,901 acres second crop, against 5,581 acres and 4,723 acres respectively in 1917–18. The decrease under second crop was due to the unfavourable character of the season. The extent of sugarcane cultivation was 799 acres against 1,230 acres in the previous year.

Financial results. 52. The net revenue amounted to Rs. 7,560, which is 8·75 per cent on the capital outlay against Rs. 21,275 or 24·63 per cent in the preceding year.

No. 37, Markapur Tank.

Capital outlay. 53. No expenditure was incurred under this head.

Working expenses. 54. The outlay under 'Extensions and Improvements' was Rs. 2,395 and under 'Maintenance and Repairs' Rs. 916, against Rs. 3,053 under the latter head in 1917–18.

Area irrigated. 55. The area irrigated was 1,392 acres first crop and 752 acres second crop, against 1,126 acres and 610 acres respectively in the previous year.

Financial results. 56. The net revenue amounted to Rs. 490 or 0·41 per cent on the capital outlay, against Rs. 1,672 or 1·39 per cent in the preceding year.

No. 38, Yellanur Tank Project.

Progress of work. 57. During the year under review the excavation of distributaries and the construction of masonry works connected therewith were practically completed.

Capital outlay. The expenditure during and to the end of the year was Rs. 13,405 and Rs. 2,67,457 respectively, against the estimate of Rs. 2,65,800.

Area irrigated. The area irrigated during the year was 70 acres against 110 acres in 1917–18.

No. 39, Arkenkota Channel.

Capital outlay. 58. There was no expenditure under this head.

Working expenses. 59. The expenditure under 'Extensions and Improvements' and 'Maintenance and Repairs' amounted to Rs. 152 and Rs. 3,596 respectively, against Rs. 400 and Rs. 10,023 in the previous year.

Area irrigated. 60. The area irrigated was 4,635 acres first crop and 506 acres second crop, against 4,694 acres and 529 acres respectively in 1917–18.

Financial results. 61. The net revenue was Rs. 14,879 or 10·30 per cent on the capital outlay, as compared with Rs. 13,903 or 9·63 per cent in the preceding year.

No. 40, Thadapalli Channel.

Capital outlay. 62. There was no outlay under this head.

Working expenses. 63. The expenditure under 'Extensions and Improvements' was Rs. 219 and under 'Maintenance and Repairs' Rs. 10,564, against Rs. 400 and Rs. 10,023 respectively in the previous year.

Area irrigated. 64. The area irrigated was 14,865 acres first crop and 1,687 acres second crop, against 14,811 acres and 1,756 acres respectively in 1917–18.

Financial results. 65. The net revenue due to improvements was Rs. 53,436 or 30·39 per cent on the capital outlay, against Rs. 50,011 or 28·45 per cent in the previous year.

No. 41, Kalingarayan Channel.

Capital outlay. 66. No expenditure was incurred under this head.

Working expenses. 67. The outlay under 'Extensions and Improvements' and 'Maintenance and Repairs' amounted to Rs. 1,021 and Rs. 15,557, respectively, against Rs. 2,559 and Rs. 9,915 in the previous year.

Area irrigated. 68. The area irrigated was 11,942 acres first crop and 7,863 acres second crop, against 11,966 acres and 8,460 acres respectively in 1917–18. The decrease under second crop was due to the unfavourable character of the season.

Financial results. 69. The net revenue amounted to Rs. 20,466, or 11·34 per cent on the capital outlay, against Rs. 35,433 or 19·63 per cent in the preceding year.

No. 42, Kaniyampalaiyam Anicut Project.

Project under construction. 70. Details regarding this project are given under paragraph 6 of Chapter I.

No. 43, Palar Anicut System.

Capital outlay. 71. The expenditure under this head was Rs. 1,038 and was incurred on the work of 'Improvements to drop No. 5 of Kambakal.'

Working expenses. 72. The expenditure under 'Extensions and Improvements' was Rs. 5,480 and under 'Maintenance and Repairs' Rs. 50,894, against Rs. 11,550 and Rs. 53,235 respectively in the previous year and Rs. 8,468 and Rs. 38,879 the averages of the previous triennium.

Area irrigated. 73. The area irrigated was 66,951 acres first crop and 15,896 acres second crop, against 80,666 acres and 36,766 acres respectively in the preceding year. The decrease was due to seriously deficient rainfall during the year.

Financial results. 74. The net revenue was Rs. 1,678 or 0·06 per cent of the capital outlay, against Rs. 1,47,616 or 6·04 per cent in the previous year.

General. 75. There were no floods during the year and water did not pass over the crest of the anicut.

No. 44, Valluru Anicut System.

Capital outlay. 76. The expenditure under this head amounted to Rs. 5,800, which was incurred on certain improvements to the anicut.

Working expenses. 77. The outlay under 'Extensions and Improvements' and 'Maintenance and Repairs' amounted to Rs. 122 and Rs. 1,221, against Rs. 1,272 and Rs. 5,218 respectively in the previous year.

Area irrigated. 78. The area irrigated was 5,178 acres first crop and 179 acres second crop, against 5,147 acres and 250 acres respectively in 1917–18

Financial results. 79. The net revenue amounted to Rs. 3,662, or 4·79 per cent on the capital outlay, against Rs. 1,332 or 1·89 per cent in the preceding year.

No. 45. Madras Water-supply and Irrigation System.

Capital outlay. 80. There was no expenditure under this head.

Working expenses. 81. The outlay under 'Extensions and Improvements' and 'Maintenance and Repairs' amounted to Rs. 1,432 and Rs. 12,564, respectively, against Rs. 1,272 and Rs. 5,218 in the previous year.

Area irrigated. 82. The area irrigated was 7,515 acres first crop and 3,725 acres second crop, against 7,438 acres and 3,603 acres respectively in 1917–18.

Financial results. 83. The net revenue amounted to Rs. 37,485, which is 2·1 per cent on the capital outlay, as compared with Rs. 40,203, or 2·25 per cent, in the previous year. The miscellaneous revenue, including that from the water-supply to the town, amounted to Rs. 32,871 against Rs. 30,164 in 1917–18.

No. 46. Chembrambakkam Tank.

Capital outlay. 84. The expenditure under this head amounted to Rs. 2,495 which was incurred on the following works:—

(*i*) *Improvements to sluice No.* 4 *of Chembrambakkam tank.*—The work was started during the year under an estimate of Rs. 1,600 and the outlay was Rs. 922.

(*ii*) *Improvements to the channel from sluice No.* 1 *of the Chembrambakkam tank.*—The work was started during the year under an estimate of Rs. 2,700 and the outlay was Rs. 755.

Working expenses. 85. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 1,993 and Rs. 8,369, respectively, against Rs. 502 and Rs. 11,905 in the previous year and Rs. 740 and Rs. 12,560, the averages of the previous triennium.

Area irrigated. 86. The area irrigated was 13,240 acres first crop and 6,873 acres second crop against 13,327 acres and 8,525 acres respectively in 1917–18 and 13,302 acres and 6,741 acres, the averages of the previous triennium.

Financial results. 87. The net revenue amounted to Rs. 42,809 or 5·68 per cent on the capital outlay against Rs. 43,207 or 5·75 per cent in the preceding year.

No. 47. Mehamatur Anicut System.

Capital outlay. 88. There was no outlay under this head.

Working expenses. 89. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 2 and Rs. 2,117, respectively, against Rs. 157 and Rs. 3,365 in the previous year.

Area irrigated. 90. The area irrigated was 4,152 acres first crop and 331 acres second crop, against 4,430 acres and 158 acres, respectively, in 1917–18. The extent of sugarcane cultivation was 218 acres.

Financial results. 91. The net revenue was Rs. 12,625, which is 17·33 per cent on the capital outlay, against Rs. 11,804 or 16·25 per cent in the previous year.

General. 92. The highest flood was on the 22nd November 1918, when it rose to 3·70 feet over the crest of the anicut, against the recorded maximum of 6·40 feet on the 10th November 1913. Owing to the failure of the south-west monsoon and want of timely rains there was a severe drought throughout the system.

No. 48. Vriddhachalam Anicut System.

Capital outlay. 93. No expenditure was incurred under this head.

Working expenses. 94. The expenditure under 'Maintenance and repairs' amounted to Rs. 3,234 against Rs. 8,411 in the previous year. There was no outlay under 'Extensions and improvements.'

Area irrigated. 95. The area irrigated was 8,035 acres first crop and 337 acres second crop, against 8,258 acres and 309 acres, respectively, in 1917–18. The extent of sugarcane cultivation was 105 acres.

Financial results. 96. The net revenue amounted to Rs. 18,451, which is 21·39 per cent on the capital outlay, against Rs. 13,037 or 15·04 per cent in the preceding year.

General. 97. The floods were normal. The highest flood level was 3·10 feet on the 26th November 1918, the maximum recorded level being 13·25 feet on the 10th November 1913. The season was not favourable for irrigation. For want of timely rains, the outturn of crops was poor.

No. 49. Pelandorai Anicut System.

Capital outlay. 98. The expenditure under the head was Rs. 9,342, which was incurred chiefly on the work of providing cross drainage works across the Pelandorai main channel.

Working expenses. 99. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 2,002 and Rs. 11,834, respectively, against Rs. 460 and Rs. 24,127 in the previous year.

Area irrigated. 100. The area irrigated was 11,528 acres first crop and 313 acres second crop, against 11,952 acres and 390 acres respectively in 1917–18. The extent of sugarcane cultivation was 40 acres.

Financial results. 101. The net revenue amounted to Rs. 19,324, which represents a return of 2·92 per cent on the capital outlay, against Rs. 11,603 or 1·73 per cent in the preceding year.

General. 102. The highest flood level was 6 feet over the crest of the anicut on the 22nd to 24th November 1918, against the maximum of 22·50 feet recorded on the 10th November 1913. For want of timely rains, the agricultural operations commenced late. The yield was, however, only a little below normal.

No. 50. Nandyar Channel System.

Capital outlay. 103. There was no outlay under this head.

Working expenses. 104. The expenditure on 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 201 and Rs. 1,752, respectively, against Rs. 2,466 under the latter head in 1917–18.

Area irrigated. 105. The area irrigated was 6,316 acres first crop and 2,116 acres second crop, against 6,108 acres and 1,759 acres respectively in the previous year.

Financial results. 106. The net revenue amounted to Rs. 7,810, which is 11·88 per cent of the capital outlay, against Rs. 5,788 or 8·81 per cent in the preceding year.

No. 51. Panjapatti Reservoir Project.

Project under construction. 107. Details regarding this project are given under paragraph 6 of chapter I.

No. 52. Marudur Anicut System.

Capital outlay. 108. No expenditure was incurred under this head.

Working expenses. 109. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 99 and Rs. 4,035 respectively, against Rs. 1,662 and Rs. 10,617 in the previous year.

Area irrigated. 110. The area irrigated was 17,422 acres first crop and 14,025 acres second crop, against 17,409 acres and 13,888 acres respectively in 1917–18.

Financial results. 111. The net revenue was Rs. 90,156, representing a return of 174·02 per cent on the capital outlay, against Rs. 78,051 or 150·06 per cent in the preceding year.

No. 53. Mahadevapuram Project.

No. 54. Baguva Project.

No. 55. Chinna Tekur Project.

No. 56. Rayapuram Tank Project.

Projects in abeyance. 112. These have been sanctioned as famine-relief works, i.e., works to be undertaken only when necessity for relief measures arises.

No. 57. Chilka Lake Canal.

113. The canal is 8 miles long. Orders transferring the canal to the control of the Salt Department with effect from 1st April 1919 were issued.

No. 58. Ganjam-Gopalpur Canal.

114. The gross receipts amounted to Rs. 56 and the working expenses to Rs. 233. The canal therefore worked at a loss of Rs. 177, the average loss of the triennium ending 1917–18 being Rs. 108.

No. 59. Buckingham Canal.

Capital outlay. 115. The canal which is 262 miles long is intended solely for navigation. The capital expenditure amounted to Rs. 15,564, which was incurred on the following works:—

(1) *Improvements to the Buckingham canal from Adyar to Papanchavadi.*—The outlay was Rs. 11,266 and to the end of the year Rs. 13,209 against the estimate of Rs. 24,000.

(2) *Extending the revetment in the Chippaleru south lock.*—The work was started during the year under an estimate of Rs. 2,230, and the outlay was Rupees 1,500.

Working expenses. 116. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 7,802 and Rs. 1,53,564 against Rs. 404 and Rupees 1,02,577, respectively, in the previous year and Rs. 460 and Rs. 1,00,623, the averages of the previous triennium. The increase in the expenditure was due to a large amount of silt clearance work done during the year.

Navigation. 117. The 'navigation receipts', 'ton-mileage' and 'number of passengers' carried compare as shown below with those of the previous year:—

	1918–19.	1917–18.
Receipts	Rs. 87,428	79,154
Ton-mileage	9,981,948	8,692,870
Value of goods	Rs. 1,66,39,436	84,27,206
Number of passengers	188,192	92,561

The rates adopted for appraising the value of goods are those used for rail-borne traffic.

Financial results. 118. The gross receipts and working expenses are compared below with those of the previous year and the averages of the previous triennium:—

—	Average of the triennium ending 1917–18.	During 1917–18.	During 1918–19.
	Rs.	Rs.	Rs.
Gross receipts	71,605	78,798	97,457
Working expenses	1,37,106	1,42,323	1,96,751
Net revenue	— 65,501	— 63,525	— 1,09,294

No. 60. Vedaranniyam Canal.

119. This canal is 34½ miles long and is maintained partly in the interests of salt traffic. The gross receipts amounted to Rs. 638 and the working expenses to Rs. 9,498. There was thus a loss of Rs. 8,860 to Government on the working of the canal during the year, against Rs. 7,951 during the previous year. The canal being valuable as a means of communication, the District Board contributes equally with Provincial funds towards its maintenance. The loss to the District Board on the maintenance of the canal during the year was Rs. 6,544 (receipts Rs. 638 and expenditure Rs. 7,182). The increase in the expenditure is due to the large amount of silt clearance done during the year.

CHAPTER IV.—CLASSES III AND IV—MINOR WORKS AND NAVIGATION FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT AND AGRICULTURAL WORKS.

CLASS III WORKS.

Number of works.

The number of works in this class during the year was 37,350 as shown in the table below :—

—	Channels.	Tanks.	Other works.	Total.
Class III (a)	623	2,728	112	3,463
Do. (b)	5,637	25,035	3,215	33,887
Total ..	6,260	27,763	3,327	37,350

Area irrigated and Financial results.

2. The area irrigated by, the outlay incurred on and the revenue derived from, works of this class are dealt with in paragraph 8 of chapter I.

Outlay.

3. The subjoined statements show the details of the outlay during the year :—

(i)

Statement showing the outlay incurred in 1918–19 on class III works by departmental heads.

—	Ordinary minor works.			Old maintenance charges.	Tank Restoration works.	Total.
	Public Works Department.	Revenue Department.				
		Works in charge of Public Works officers.	Works in charge of Civil officers acting as Public Works disbursers.			
	RS.	RS.	RS.	RS.	RS.	RS.
Original works	1,56,593	19,697	10,756	41,967	..	2,30,013
Repairs	6,43,292	13,264	28,752	2,08,038	4,31,742	13,25,088
Establishment	3,00,966	13,459	..	91,184	1,80,971	5,86,580
Tools and plant	8,358	495	..	3,014	5,219	17,086
Refunds of revenue	60	..	..	..	..	60
Total ..	11,09,269	46,915	39,508	3,44,193	6,17,932	21,57,817
Add outlay incurred by Civil officers on minor irrigation works.	..	..	..	..	..	7,61,133
Grand total ..	11,09,269	46,915	39,508	3,44,193	6,17,932	29,18,950

(ii)

Statement showing by districts the expenditure incurred by Civil officers acting as Public Works disbursers during 1918–19.

Districts.	Original works.	Repairs.	Total.
	RS.	RS.	RS.
Collector of South Arcot	1,637	6,117	7,754
" North Arcot	3,829	6,387	10,216
" Trichinopoly	— 760	4,463	3,703
" Ganjam	3,010	1,691	4,701
" Kistna	3,040	..	3,040
" Madura	..	3,000	3,000
" Chingleput	..	690	690
" Cuddapah	..	2,230	2,230
" Kurnool	..	2,801	2,801
" Salem	..	1,373	1,373
Total ..	10,756	28,752	39,508

Progress of works.

4. The following important works were carried out during the year :—

VIZAGAPATAM DIVISION.

(1) *Improvements to the Narasapur channel.*—The outlay to the end of the year was Rs. 8,801 against the estimate of Rs. 9,700. The work was practically completed.

(2) *Improvements to the Yedumulla dam and its channel.*—The work was started during the year under an estimate of Rs. 6,100 and the outlay was Rs. 1,884.

GODAVARI NORTHERN DIVISION.

(3) *Restoration of the Edira tank.*—The outlay to the end of the year was Rs. 5,778 against the estimate of Rs. 7,850.

(4) *Restoration of the Venkatareddi Dora tank.*—The expenditure to the end of the year was Rs. 9,855 against the estimate of Rs. 14,250.

(5) *Restoration of the Chinna Gangaram tank.*—The work was started during the year under an estimate of Rs. 13,800 and the outlay was Rs. 1,758.

GUNTUR DIVISION.

(6) *Improvements to the Tummalacheruvu.*—The work was completed at a cost of Rs. 4,447 against the estimate of Rs. 4,548.

(7) *Improvements to the Mukkalapad Sharakath tank.*—The work was started during the year under an estimate of Rs. 18,020 and the outlay was Rs. 6,999.

NELLORE DIVISION.

(8) *Providing a regulating dam across the Pulikalva taking off from the Swarnamukhi river.*—The outlay during the year was Rs. 11,083 and to the end of the year Rs. 12,289 against the estimate of Rs. 19,600.

NORTH ARCOT DIVISION.

(9) *Improvements to the Siruvallur and Arunagirimangalam tanks and supply channel.*—The outlay to the end of the year was Rs. 7,014 against the estimate of Rs. 7,730. The accounts of the work were closed during the year, leaving the construction of the regulating dam to be taken up separately after the question was settled.

SOUTH ARCOT DIVISION.

(10) *Reconstructing and extending the Kothambakkam anicut.*—The work was completed at a cost of Rs. 15,090 against the estimate of Rs. 15,800.

TANK RESTORATION SCHEME DIVISION, VII CIRCLE.

(11) *Reconstructing the Chenpalai anicut.*—The work was completed at a cost of Rs. 10,660 against the estimate of Rs. 14,640.

TRICHINOPOLY DIVISION.

(12) *Improvements to the Nangavaram kattuvari.*—The outlay to the end of the year was Rs. 33,965 against the estimate of Rs. 46,550.

(13) *Constructing a new head and leading channel to the Ponneri channel.*—The work was started during the year under an estimate of Rs. 1,85,000 and the outlay was Rs. 12,766.

TINNEVELLY DIVISION.

(14) *Improvements to the Vilattikulam Periyakulam tank and supply channel.*—The work was completed at a cost of Rs. 39,368 against the estimate of Rs. 40,850.

(15) *Improvements to the Vadamalayam channel.*—The work was started during the year under an estimate of Rs. 6,780 and the outlay was Rs. 1,000.

Particulars of revenue.

5. The particulars of revenue derived from the works during the year are compared below with those of the previous year : —

	1918–19.	1917–18.
	RS.	RS.
Irrigation revenue	76,47,980	95,15,706
Receipts collected by Public Works Department ...	44,092	61,041
Total ...	76,92,072	95,76,747

Financial results.

6. The net revenue of the year after meeting the charges amounted to Rs. 47,68,154 against Rs. 67,25,195 of the proceding year.

Tank Restoration Scheme works.

7. The progress made in the investigation and execution of Tank Restoration Scheme works is dealt with in paragraph 9 of chapter I. The following table shows by districts the work done during and up to the end of 1918-19 :—

Statement showing the area investigated and the number and amount of estimates sanctioned during and up to the end of the year 1918-19 by districts.

Circle.	Districts.	Approximate area investigated in square miles		Number of estimates sanctioned		Amount of estimates sanctioned in rupees	
		During the year 1918-19.	To the end of the year 1918-19.	During the year 1918-19.	To the end of the year 1918-19.	During the year 1918-19.	To the end of the year 1918-19.
I Circle ..	Godavari	90	908	56	506	78,641	3,99,334
	Vizagapatam	..	525	..	141	..	1,49,658
II Circle ..	Kistna	..	300	..	69	..	51,451
	Guntur	..	4,411	..	257	..	2,04,727
	Kurnool	..	7,848	..	340		3,38,862
III Circle ..	Cuddapah	190	3,656	12	1,123	17,945	8,09,316
	Bellary	144	9,052	34	106	28,370	88,865
	Anantapur	..	7,626	20	705	24,750	9,28,964
IV Circle ..	Coimbatore	..	8,097	..	149	..	3,10,079
	Salem	328	5,605	1	1,108	10,587	8,17,967
V Circle ..	Chingleput	19	1,983	48	1,889	89,121	22,50,288
	Nellore	..	7,800	..	471	..	6,13,994
VI Circle ..	Trichinopoly	146	2,954	11	298	84,370	6,20,504
	Madura	..	4,836	..	1,042		14,88,614
	Tinnevelly	..	1,712	9	701	39,200	9,64,170
	Ramnad	..	1,643	..	..	..	..
VII Circle ..	North Arcot	1[illegible]	4,388	17	1,757	33,145	20,65,040
	South Arcot	6	573	4	542	15,425	12,77,745
	Chittoor	28	4,582	29	209	26,823	2,97,829
	Tanjore	..	1,140	..	610	751	7,94,686
	Total ..	965	78,980	244	12,469	3,92,128	1,44,67,048

CLASS IV.—AGRICULTURAL WORKS.

Receipts.

8. The receipts which were realized mainly by the sale of plantations and produce of trees along river embankments amounted to Rs. 91,963, against Rs. 1,05,148 in 1917-18.

Expenditure.

9. The expenditure incurred amounted to Rs. 8,31,413, against Rs. 6,69,695 in the previous year as shown below :—

	1918-19.	1917-18.
	RS.	RS.
Works	1,08,045	1,05,224
Repairs	4,74,605	4,32,981
Establishment	2,36,962	1,18,149
Tools and plant	10,366	11,614
Refunds of revenue	1,435	1,727
Total ...	8,31,413	6,69,695

THE GODAVARI RIVER.

Progress of works.

10. (1) *Fixing permanent stations on the lankas of the Godāvari river.*—The expenditure to the end of the year was Rs. 11,708 against the estimate of Rs. 20,250.

THE KISTNA RIVER.

(2) *Improvements to the Divi right flood bank from head to 14/0 mile.*—The work was completed at a cost of Rs. 37,600 against the estimate of Rs. 55,000.

(3) *Forming the new diversion of the Kistna left flood bank from 37/0 to 40/4 and raising and strengthening the existing banks.*—The work was started during the year under an estimate of Rs. 36,000 and the outlay was Rs. 25,115.

THE CAUVERY RIVER.

(4) *Diverting the Cauvery right bank at 45/0 mile.*—The expenditure to the end of the year was Rs. 4,710 against the estimate of Rs. 5,920.

(5) *Training the river Korayar from 69/3 to 72/0 mile.*—The work was completed at a cost of Rs. 7,442 against the estimate of Rs. 9,500.

(6) *Improvements to the Cauvery right bank from the Pugalore channel head at 0/6 to 12/0 mile and from the Nerur channel head at 19/3 to 20/2.*—The outlay to the end of the year was Rs. 10,036 against the estimate of Rs. 1,06,600.

(7) *Protective works at the Panayapuram set.*—The work was completed at a cost of Rs. 10,724 against the estimate of Rs. 14,500.

31st December 1919.

W. J. J. HOWLEY,
Chief Engineer for Irrigation.

Appendix I.

STATISTICAL STATEMENTS—(*Prescribed by the Secretary of State*).

A-I.—STATEMENT of Canals in the Madras Presidency for the year 1918-1919

—	Nagavalli river system.	Gōdāvari delta system.	Kistna delta system.	Divi pumping system.	Penner river canals system.	Kurnool-Cuddapah canal.	Poiney anicut system.	Cheyyar anicut system.	Tirukkōyilūr anicut system.	Shatiatope anicut system.	Lower Coleroon anicut system.	Cauvery delta system.	Srivaikuntam anicut system.	Ganjām minor rivers system.	Muniyeru project.	Sagilēru system.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Source of supply of water	River Nagavalli.	River Gōdāvari.	River Kistna.	Pumping from river Kistna.	River Penner.	River Tungabhadra.	River Poiney.	River Cheyyar.	River Ponniar.	River Vellār.	River Coleroon.	River Cauvery.	River Tāmbraparni.	Rivers Langulya Vamsadhara and Garibulagodda drain.	River Muniyeru.	River Sagilēru
Minimum discharge of river .. c. ft. per sec.	54	714,612	19	..	..	2,000	..	..	269,843	234,326	Not known.	..	..	..	..	19,200
Maximum discharge of main canals, as designed. ,,	615	13,165	13,284	718	8,392	1,931	3,974	1,348	1,271	850	Not available	43,750	1,860	Not known.	300	477
Maximum discharge during the year. ,,	360	13,550	13,227	517	5,834	..	1,020	654	588	940	Do.	28,170	1,392	..	267	Not available
Average rainfall for the year. Inches.	42·59	29·08	26·68	35·04	51·55	..	19·21	27·52	33·35	53·32	Do.	25·13	27·93	38·64	28·85	0·55
Gross area commanded .. Acres.	49,920	1,267,200	1,350,400	100,000	268,600	381,515	42,560	29,461	54,895	108,069	158,526	17,06,628	80,000	64,000	14,471	33,576
Culturable area commanded .. ,,	31,200	961,253	900,000	60,000	190,000	357,470	23,824	29,461	45,977	43,965	117,233	9,09,034	33,500	64,000	13,024	26,576
Area irrigable by complete project ,,	27,658	840,000	†.725,000	50,000	165,385	124,622	23,824	23,629	45,977	43,965	110,308	9,08,375	23,014	63,000	10,580	4,664
Area irrigable at present .. ,,	25,000	745,929	734,053	40,000	147,274	121,998	22,462	22,463	30,954	34,025	107,929	9,00,924	23,014	59,000	10,000	4,664
Sanctioned estimate—																
Direct charges .. .. Rs.	17,47,770	1,10,89,232	1,42,13,010	19,60,600	47,80,289	1,76,25,000	2,67,178	4,42,925	3,66,759	9,15,245	18,69,597	16,62,925	13,61,520	2,58,182	6,71,434	4,47,108
Indirect do. .. .. ,,	68,580	19,34,864	9,81,160	48,000	10,06,096		6,379	11,754	9,189	57,271	71,259	1,66,767	1,15,286	10,203	28,000	17,619
Interest during construction .. ,,	2,93,217	1,11,38,052	1,28,54,715	2,22,617	22,88,418		..	..	..	..		..	7,49,577	..	..	..
Total, Estimate .. ,,	21,09,517	2,41,62,248	2,80,18,885	23,21,617	20,74,803	1,76,25,000	2,73,557	4,54,679	3,75,948	9,72,516	19,40,856	18,29,692	22,26,383	2,68,385	6,99,434	4,64,727
Expenditure to end of 1918-1919—																
Direct charges .. .. ,,	16,50,890	1,32,90,877	1,54,62,089	19,46,259	57,12,940	2,10,97,480	2,46,164	4,25,706	3,66,759	9,15,245	18,71,543	42,29,468	16,33,163	2,58,182	5,68,966	4,47,108
Indirect do. .. .. ,,	40,596	19,72,878	10,68,607	31,850	10,12,062	60,236	6,683	11,754	9,189	57,271	71,334	1,93,660	1,05,899	10,203	29,536	17,619
Interest during construction* ,,	2,04,627	99,82,397	96,15,269	3,09,819	25,84,125	..	..	..	..	..	..	13,37,765	8,67,827	..	..	..
Total, Expenditure .. ,,	18,96,103	2,52,77,152	2,61,45,915	22,86,928	93,10,228	2,31,57,716	2,52,847	4,37,459	3,75,948	9,72,516	19,42,877	57,60,893	26,06,891	2,68,385	5,98,602	4,64,727
Works as now sanctioned—																
Main canals, irrigation .. Miles.	28½	511	349	50	31	413½	55	21	57	3	194	1,507	28	119	26½	12
Branch canals do. .. ,,							49	40	80	38	292				34	
Distributaries .. .. ,,	90	1,993½	2,185½	115½	477	304	78	120	28½	149	620	1,971	46	225	6½	..
Of above—																
Navigable .. .. ,,	..	499	334	..	..	190	..	..	..	..	..	..	..	..	..	..
Works completed at end of 1918-1919—																
Main canals, irrigation .. ,,	28½	511	349	50	31	413½	55	21	57	3	194	1,507	28	119	26½	12
Branch canals do. .. ,,							49	40	80	38	292				34	
Distributaries .. .. ,,	78	1,993½	2,185½	115½	477	289½	78	120	28½	149	620	1,971	46	225	6½	..
Of above—																
Navigable .. .. .. ,,	..	497·53	334	..	..	190	..	..	..	..	..	..	..	..	..	..

* Represent interest charges up to the date of closure of construction estimates of the works—vide Government of India orders communicated with their Endorsement No. 1308 I., dated 6th August 1907.
† This area having been exceeded, a revised ultimate area will be fixed shortly.

A-I.—Statement of Canals in the Madras Presidency for the year 1918-1919—*cont.*

—	Arkenkōta channel.	Thadapalli channel.	Kalingarayan channel.	Palar anicut system.	Vallūru anicut system.	Mehamattur anicut system.	Vriddhachalam anicut system.	Pelandorai anicut system.	Nandyar channel system.	Marudur anicut system.	Chilka lake canal.	Ganjām-Gopalpur canal.	Buckingham canal.	Vēdaranniyam canal.
	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Source of supply of water	River Bhavāni.	River Bhavāni.	River Bhavāni.	River Palar.	River Kortalyār.	River Manimuktanadi.	River Manimuktanadi.	River Vellār.	River Nandyar.	River Tāmbraparni.				
Minimum discharge of river .. c. ft. per sec.	..	..	..	..	..	23,291	53,954	159,392	..	..	..	..	..	..
Maximum discharge of main canals, as designed. ,,	552	725	893	7,698	113	263	328	563	273	..	..	..	..	..
Maximum discharge during the year .. ,,	681	1,031	1,159	..	36	161	297	338	368	1,074	..	..	..	..
Average rainfall for the year .. Inches.	21·06	21·06	27·64	26·85	56·97	37·43	40·77	39·86	33·40	33·39	..	..	..	..
Gross area commanded .. .. Acres.	8,000	16,125	15,875	141,031	10,124	13,792	19,993	60,670	9,480	35,840	..	..	..	..
Culturable area commanded .. .. ,,	6,000	16,000	15,000	105,032	6,794	10,651	16,359	16,677	9,480	17,920	..	..	..	..
Area irrigable by complete project .. ,,	5,000	16,000	12,500	82,718	5,216	10,651	15,559	16,000	9,480	17,920	..	..	..	..
Area irrigable at present .. .. ,,	4,750	15,000	12,000	78,668	5,216	4,555	8,828	12,837	6,620	17,920	..	..	..	..
Sanctioned estimate—														
Direct charges .. .. .. Rs.	1,47,006	1,70,380	1,78,780	23,28,492	74,535	70,761	84,191	6,42,823	63,231	50,541	30,240	1,43,100	85,56,015	1,32,699
Indirect do. .. .. .. ,,	3,676	11,050	4,506	1,16,752	1,666	1,897	2,494	47,800	2,484	1,265	787	12,393	4,88,256	3,733
Interest during construction .. ,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Estimate ,,	1,50,682	1,81,430	1,83,286	24,45,244	76,201	72,658	86,685	6,90,623	65,715	51,806	31,027	1,55,493	90,44,271	1,36,432
Expenditure to end of 1918-1919—														
Direct charges .. .. .. ,,	1,40,769	1,64,755	1,75,980	23,27,176	74,498	70,761	84,191	6,31,456	63,231	50,541	30,240	1,43,100	85,35,684	1,32,699
Indirect do. .. .. .. ,,	3,676	11,050	4,506	1,16,780	1,918	1,897	2,494	48,301	2,484	1,265	787	12,393	4,88,650	3,733
Interest during construction* .. ,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Expenditure ,,	1,44,445	1,75,805	1,80,486	24,43,978	76,416	72,658	86,685	6,79,736	65,715	51,806	31,027	1,55,493	90,24,334	1,36,432
Works as now sanctioned—														
Main canals, irrigation .. .. Miles.	20	48	57	196	5¾	7	17	15	7½	29	8	..	262	34½
Branch canals do. .. .. ,,	4	35	4		..	8	16	24	23⅝					
Distributaries .. .. .. ,,	..	..	..	156	8	9¼	16	25	..	7¼	..	..	..	..
Of above—														
Navigable canals .. .. .. ,,	..	..	..	..	..	..	..	..	..	..	8	..	262	34½
Works completed at end of 1918-1919—														
Main canals, irrigation .. .. ,,	20	48	57	156	5¾	7	17	15	7½	29	8	..	262	34½
Branch canals do. .. .. ,,	4	35	4			8	16	24	23⅝					
Distributaries .. .. .. ,,	..	..	..	139	8	9¼	16	25	..	7¼	..	..	..	
Of above—														
Navigable .. .. .. ,,	..	..	..	..	..	..	..	..	..	..	8	..	262	34½

* Represent interest charges up to date of closure of construction estimates of the works.

W. J. J. HOWLEY,
Chief Engineer for Irrigation.

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1918–1919

—	Barur tank.	Periyar system.	Rushikulya system.	Jangamaheswarapuram tank.	Atmakur tank.	Dondapad tank.	Peddanaidu tank of Chinnaraopalem.	Hajipuram tank.	Ponnalur tank.	Anamasamudram tank.	Yerur tank.	Cumbum tank.	Markapur tank.	Madras water-supply and irrigation system.	Chembrambakam tank.	Bhavanasi tank.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Source of supply of water	Ponniar river and local rains.	Periyar and Vaigai rivers.	Mahanadi and Rushikulya rivers.	Catchment of Dondivagu.	Catchment of Chandravanka and Kolagutla vagus.	Rainfall.	Rainfall.	Domalern diverted into the tank.	Indiseleru diverted into the tank.	Beraperu river.	Rainfall and surplus of upper tanks	Gundlakamma and Jampeleru rivers.	Gundlakamma river.	Kortalyar river.	Ocoum river.	Rainfall.
											and also spill from Challakalva branch of Swarnamuki.					
If supplied by rainfall. Area of catchment. Sq. miles	2,682	239	1,750	60	105	56	26·64	100	39·14	23·62	60·5	430	270·25	34	100	43
Average annual rainfall. Inches.	..	8·028	46·75	21·06	15·47	22·62	..	24·49	32·55	29·17	33·78	..	13·29	54·42	43·44	30·95
Contents of tank between levels of surface of full supply and sill of canal head sluice. Mills. c. ft.	313·33	9,605	3,500	79	164	227	81	309	181	90·57	318	2,942	124·52	2,729·364	3,146	174·64
Area of surface at full supply. Acres.	688	7,167	4,948	619	575	705	301	1,600	719	474	3,285	5,695	811	5,361	5,729	659
Gross area commanded .. ,,	6,887	768,000	230,880	960	1,700	3,240	784	2,900	1,973	1,000	1,236	7,860	1,931	16,129	32,554	2,700
Culturable area commanded ,,	6,887	Not known	142,000	960	1,160	2,880	726	2,900	1,973	1,000	1,236	6,000	1,700	10,165	24,478	2,448
Area irrigable by complete project. ,,	6,887	143,000	120,000	960	1,160	1,930	726	1,420	1,000	1,000	1,236	6,000	1,700	9,852	18,000	841
Do. at present .. ,,	6,887	143,000	106,000	960	1,160	1,930	210	700	1,000	961	1,143	5,980	1,583	9,852	18,000	841
Wells supplied by tanks ,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sanctioned estimate—																
Direct charges .. Rs.	4,00,000	84,71,000	45,53,600	61,253	1,09,951	1,24,786	68,234	2,78,774	1,90,887	71,687	61,741	83,985	1,16,657	15,47,123	6,48,970	..
Indirect do. .. ,,	25,300	2,79,000	3,92,320	10,411	13,428	15,218	20,796	33,109	25,011	1,886	1,612	2,388	4,001	2,38,945	1,12,647	..
Interest during construction ,,	41,439	16,23,606	14,91,004	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Estimate ,,	4,66,739	1,03,73,606	64,36,924	71,664	1,23,379	1,40,004	88,960	3,11,883	2,15,898	73,573	63,353	86,373	1,20,658	17,86,068	7,61,617	..
Expenditure to end of 1917–18—																
Direct charges .. .. Rs.	4,19,375	1,03,06,051	46,94,555	61,253	1,09,951	1,24,786	62,095	2,78,774	1,87,693	71,687	61,741	83,985	1,16,657	15,47,123	6,41,094	2,49,581
Indirect do. .. .. ,,	23,738	3,67,150	4,13,327	10,411	13,428	15,218	1,397	33,109	25,524	1,886	1,612	2,388	4,001	2,38,945	1,12,501	10,858
Interest during construction.* ,,	80,175	16,06,402	16,69,901	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Expenditure ,,	5,23,288	1,22,79,603	67,77,783	71,664	1,23,379	1,40,004	63,496	3,11,883	2,13,217	73,573	63,353	86,373	1,20,658	17,86,068	7,54,293	..
Works as now sanctioned—																
Dam (earth or masonry) total height. Feet.	28 (earth).	173 (earth).	(earth). (a) 57·7 (b) 44·0	24 (partly earth and partly masonry.)	23 (partly earth and partly masonry.)	22 (partly earth and partly masonry.)	..	6 (masonry).	21½	..	..	56 (earth).	22 (earth).	30 (earth).	25 (earth).	20 (earth.)
Canals .. .. Miles.	11	145	80	..	..	..	2½	..	..	..	..	..	7½	11½	10½	6½
Distributaries .. .. ,,	26	106	219	5½	4½	6½	..	7½	9½	2½	..	23½	..	..	1½	..
Works completed to end of 1918–19—																
Dam (height completed). Feet.	28	173	(a) 57·7 (b) 44·0	24	23	22	..	6	21½	..	..	56	22	30	25	20
Canals .. .. Miles.	11	145	80	..	..	..	2½	..	..	..	..	..	7½	11½	10½	6½
Distributaries .. ,,	26	106	151	5½	4½	6½	..	6½	7	2½	..	23½	..	..	1½	..

* Represent interest charges up to date of closure of construction estimates of the works.
(a) Mettallbunda reservoir. (b) Sunda reservoir.

B-I.—Capital Accounts of Irrigation and Navigation Works, Class I, "Major" (Productive and Protective) and Class II, "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for and to the end of 1918–1919.

Works or systems.		Direct charges (net expenditure). Works.	Establishment.	Tools and plant.	Deduct receipts on capital account.	Total.	Indirect charges.	Total excluding interest.	Simple interest.
1		2	3	4	5	6	7	8	9
CLASS I.—MAJOR PRODUCTIVE WORKS.		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Nagavalli river system	To end of previous year	12,99,721	2,57,935	92,719	1,377	16,48,998	39,912	16,88,910	5,31,962
	During 1918–1919	2,794	1,040	– 67	2,019	1,882	684	2,566	57,448
Godavari delta system	To end of previous year	99,16,601	23,12,468	9,24,272	1,526	1,31,51,815	19,66,696	1,51,18,511	2,22,42,349
	During 1918–1919	1,15,515	51,303	2,244	..	1,69,062	7,182	1,76,244	4,60,868
Kistna do.	To end of previous year	1,20,28,627	26,69,788	7,00,074	18,540	1,53,79,949	10,57,373	1,64,37,322	1,99,89,111
	During 1918–1919	53,989	27,265	836	..	82,090	11,234	93,324	5,36,928
Divi pumping system	To end of previous year	10,48,187	1,99,200	6,73,427	377	19,20,437	29,710	19,50,147	6,94,692
	During 1918–1919	16,325	8,244	253	..	24,822	2,140	26,962	67,298
Pennar river canals system	To end of previous year	46,05,651	9,55,222	1,44,158	2,858	57,02,173	10,12,813	67,14,986	74,84,453
	During 1918–1919	9,035	1,785	47	..	10,867	250	11,117	1,98,728
Kurnool-Cuddapah canal	To end of previous year	1,88,57,188	2,21,784	40,81,612	2,26,747	2,29,38,837	51,051	2,29,84,888	2,97,57,296
	During 1918–1919	1,02,224	65,604	1,045	5,230	1,63,643	9,185	1,72,828	8,01,359
Barur tank	To end of previous year	3,35,765	76,701	6,931	22	4,19,375	23,738	4,43,113	4,92,983
	During 1918–1919	..	..	..	..	..	..	..	14,602
Poiney anicut system	To end of previous year	1,94,445	44,596	38	..	2,39,079	6,409	2,45,488	4,28,189
	During 1918–1919	5,047	1,955	73	..	7,075	274	7,349	8,448
Cheyar do.	To end of previous year	3,47,059	78,646	..	..	4,25,705	11,754	4,37,459	6,29,959
	During 1918–1919	..	..	..	..	..	..	..	14,822
Tirukkoyilur anicut system	To end of previous year	3,01,870	64,889	..	..	3,66,759	9,189	3,75,948	4,85,120
	During 1918–1919	..	..	..	..	..	..	..	12,770
Shatiatope do.	To end of previous year	8,10,406	1,04,724	115	..	9,15,245	57,271	9,72,516	4,67,133
	During 1918–1919	..	..	..	..	..	..	..	31,867
Lower Coleroon do.	To end of previous year	15,47,017	3,08,521	14,059	..	18,69,597	71,259	19,40,856	18,77,473
	During 1918–1919	1,388	538	20	..	1,946	75	2,021	65,127
Toludur project	To end of previous year	5,84,835	79,519	2,96,885	2,011	9,59,228	1,81,971	11,41,199	77,534
	During 1918–1919	1,60,990	62,362	2,332	678	2,25,006	16,701	2,41,707	37,316
Cauvery delta system	To end of previous year	33,95,286	7,08,810	95,901	1,985	41,98,012	1,92,344	43,90,356	43,37,595
	During 1918–1919	22,439	8,692	325	..	31,456	1,316	32,772	1,46,714
Periyar system	To end of previous year	79,02,705	16,45,827	7,66,782	17,936	1,02,97,378	3,66,528	1,06,63,906	88,25,824
	During 1918–1919	5,940	2,686	47	..	8,673	622	9,295	3,58,685
Srivaikuntam anicut system	To end of previous year	12,96,787	3,19,693	10,524	369	16,26,635	1,05,616	17,32,251	24,44,152
	During 1918–1919	4,472	2,022	36	..	6,530	283	6,813	56,750
Total ..	To end of previous year	6,44,72,150	1,00,48,323	78,07,497	2,73,748	8,20,54,222	51,83,684	8,72,37,856	10,07,56,825
	During 1918–1919	5,00,158	2,33,496	7,325	7,927	7,33,052	49,946	7,82,998	28,69,725

B-I.—Capital Accounts of Irrigation and Navigation Works, Class I, "Major" (Productive and Protective) and Class II, "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for and to the end of 1918–1919—*cont.*

Works or systems.		Direct charges (net expenditure).					Indirect charges.	Total excluding interest.	Simple interest.
		Works.	Establishment.	Tools and plant.	Deduct receipts on capital account.	Total.			
1		2	3	4	5	6	7	8	9
CLASS I.—MAJOR PROTECTIVE WORKS.		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Rushikulya system	To end of previous year	38,15,896	8,05,098	1,27,321	65,853	46,82,457	4,12,876	50,95,333	44,77,786
	During 1918–1919	8,665	3,234	209	..	12,098	451	12,549	1,63,245
Bhavanasi tank project	To end of previous year	1,64,707	33,701	25,386	145	2,22,649	9,578	2,32,227	21,685
	During 1918–1919	17,727	8,952	274	21	26,932	1,280	28,212	8,221
Mepad tank project	To end of previous year	13,49,662	2,65,129	2,32,577	12,859	18,34,509	88,694	19,23,203	3,33,944
	During 1918–1919	1,40,521	27,769	732	1,678	1,67,344	3,953	1,71,297	66,787
Venkatapuram tank project	To end of previous year	3,00,808	62,353	4,205	519	3,66,847	12,355	3,79,202	71,315
	During 1918–1919	1,390	906	14	..	2,310	127	2,437	12,813
Total ..	To end of previous year	56,31,073	11,65,276	3,89,489	79,376	71,06,462	5,23,503	76,29,965	49,04,620
	During 1918–1919	1,68,303	40,851	1,229	1,699	2,08,684	5,811	2,14,495	2,51,068
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.									
Ganjam minor rivers system	To end of previous year	2,14,343	43,700	139	..	2,58,182	10,203	2,68,385	..
	During 1918–1919	..	..	..	..	..	..	..	..
Muniyeru project	To end of previous year	4,62,179	1,02,806	3,713	1,732	5,68,956	29,636	5,98,602	..
	During 1918–1919	..	..	..	..	..	..	..	..
Peddanaidu tank of Chinnamsapalem ..	To end of previous year	52,319	9,779	..	..	62,098	1,397	63,495	..
	During 1918–1919	..	..	..	..	..	..	..	..
Jangamaheswarapuram tank	To end of previous year	52,564	8,689	..	..	61,253	10,411	71,664	..
	During 1918–1919	..	..	..	..	..	..	..	..
Atmakur tank	To end of previous year	91,202	18,749	..	..	1,09,951	13,428	1,23,379	..
	During 1918–1919	..	..	..	..	..	..	..	..
Doudaped tank	To end of previous year	1,05,848	18,948	..	..	1,24,796	15,218	1,40,004	..
	During 1918–1919	..	..	..	..	..	..	..	..
Hajipuram tank	To end of previous year	2,30,686	48,308	..	220	2,78,774	32,109	3,11,883	..
	During 1918–1919	..	..	..	..	..	..	..	..
Ponnalur tank	To end of previous year	1,82,239	29,803	..	..	1,92,141	25,402	2,07,543	..
	During 1918–1919	4,654	873	24	..	5,552	122	5,674	..
Anamamudram-Birapura tank	To end of previous year	58,421	12,266	..	..	71,687	1,886	73,573	..
	During 1918–1919	..	..	..	..	..	..	..	..
Yerur tank	To end of previous year	50,219	11,522	..	..	61,741	1,612	63,353	..
	During 1918–1919	..	..	..	..	..	..	..	..
Vamula tank	To end of previous year	50,961	11,225	..	..	62,186	1,571	63,757	..
	During 1918–1919	..	..	..	..	..	..	..	..

B-I.—Capital Accounts of Irrigation and Navigation Works, Class I, "Major" (Productive and Protective) and Class II, "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for and to the end of 1918–1919—*cont.*

Works or systems.		Direct charges (net expenditure).					Indirect charges.	Total excluding interest.	Simple interest.
		Works.	Establishment.	Tools and plant.	Deduct receipts on capital account.	Total.			
1		2	3	4	5	6	7	8	9
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—*cont.*		RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Sagiléru tank	To end of previous year	3,54,321	80,339	12,449	1	4,47,108	17,619	4,64,727	..
	During 1918–1919	..	..	..	..	..	..	..	..
Talapuluvanka tank	To end of previous year	54,348	11,204	731	..	66,283	2,541	68,824	..
	During 1918–1919	..	..	..	..	..	..	..	..
Cumbum tank	To end of previous year	68,701	15,284	..	..	83,985	2,388	86,373	..
	During 1918–1919	..	..	..	..	..	..	..	..
Markapur tank project	To end of previous year	95,492	21,165	..	..	1,16,657	4,001	1,20,658	..
	During 1918–1919	..	..	..	..	..	..	..	..
Yellanur do.	To end of previous year	1,82,164	35,211	6,994	..	2,24,369	29,683	2,54,052	..
	During 1918–1919	7,696	4,939	79	..	12,714	691	13,405	..
Kocheruvu do.	To end of previous year	97,775	19,751	1,008	4	1,18,530	10,615	1,29,145	..
	During 1918–1919	3,016	1,936	31	6	4,977	271	5,248	..
Siddapur do.	To end of previous year	5,54,780	1,18,380	1,72,810	217	8,46,203	16,642	8,62,845	..
	During 1918–1919	— 10,264	— 6,587	— 105	76	— 17,032	— 922	— 17,954	..
Nagavaram anicut and supply channel ..	To end of previous year	88,757	18,538	..	..	1,07,295	2,595	1,09,890	..
	During 1918–1919	..	..	..	..	..	..	..	..
Arkenkota channel	To end of previous year	1,14,505	26,264	..	..	1,40,769	3,676	1,44,445	..
	During 1918–1919	..	..	..	..	..	..	..	..
Thadapalli channel	To end of previous year	1,35,220	29,535	..	..	1,64,755	11,050	1,75,805	..
	During 1918–1919	..	..	..	..	..	..	..	..
Kalingaroyan channel	To end of previous year	1,43,789	32,191	..	..	1,75,980	4,506	1,80,486	..
	During 1918–1919	..	..	..	..	..	..	..	..
Kaniyampalayam anicut	To end of previous year	39,669	8,404	..	..	48,073	1,177	49,250	..
	During 1918–1919	23,120	7,407	173	..	30,700	1,037	31,737	..
Pálar anicut system	To end of previous year	18,31,188	4,65,097	29,875	..	23,26,160	1,16,780	24,42,940	..
	During 1918–1919	852	160	4	..	1,016	22	1,038	..
Vallur anicut system	To end of previous year	56,021	12,802	..	..	68,823	1,793	70,616	..
	During 1918–1919	4,757	893	25	..	5,675	125	5,800	..
Madras water-supply and irrigation system ..	To end of previous year	13,24,037	2,17,740	6,648	1,302	15,47,123	2,38,945	17,86,068	..
	During 1918–1919	..	..	..	..	..	..	..	..
Chembrambakkam tank	To end of previous year	5,03,890	1,27,271	8,204	114	6,39,251	1,12,547	7,51,798	..
	During 1918–1919	2,046	384	11	..	2,441	54	2,495	..
Mohamattur anicut system	To end of previous year	57,530	13,231	..	..	70,761	1,897	72,658	..
	During 1918–1919	..	..	..	..	..	..	..	..
Vriddhachalam anicut system	To end of previous year	68,616	15,575	..	..	84,191	2,494	86,685	..
	During 1918–1919	..	..	..	..	..	..	..	..

B-I.—Capital Accounts of Irrigation and Navigation Works, Class I, "Major" (Productive and Protective) and Class II, "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for and to the end of 1918–1919—*cont.*

Works or systems.		Direct charges (net expenditure). Works.	Establishment.	Tools and plant.	Deduct receipts on capital account.	Total.	Indirect charges.	Total excluding interest.	Simple interest.
1		2	3	4	5	6	7	8	9
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—*cont.*		RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Pelandorai anicut system	To end of previous year	5,05,556	1,11,739	5,938	798	6,22,435	47,959	6,70,394	..
	During 1918–1919	6,466	2,440	94	..	9,000	342	9,342	..
Nandyar channel system	To end of previous year	51,476	11,755	..	..	63,231	2,484	65,715	..
	During 1918–1919	..	..	..	..	..	..	..	..
Marudur anicut system	To end of previous year	41,500	9,041	..	..	50,541	1,265	51,806	..
	During 1918–1919	..	..	..	..	..	..	..	..
Panjapatti reservoir	To end of previous year	1,97,163	29,286	55,948	443	2,81,894	9,322	2,91,216	..
	During 1918–1919 .. .	33,090	14,604	261	88	47,807	2,219	50,026	..
NAVIGATION WORKS.									
Chilka lake canal	To end of previous year	24,450	5,624	166	..	30,240	787	31,027	..
	During 1918–1919	..	..	..	..	..	..	..	..
Ganjam-Gopalpur canal	To end of previous year .. .	1,02,675	37,799	2,723	107	1,43,100	12,393	1,55,493	..
	During 1918–1919	..	..	..	..	..	..	..	..
Buckingham canal	To end of previous year	67,61,490	16,02,529	1,80,762	24,326	85,20,455	4,88,315	90,08,770	..
	During 1918–1919	12,767	2,395	67	.	15,229	335	15,564	..
Vedaranniyam canal	To end of previous year	1,07,885	24,814	..	..	1,32,699	3,733	1,36,432	..
	During 1918–1919	..	..	..	..	..	.	..	..
Total ..	To end of previous year	1,50,84,968	34,18,861	4,88,118	29,271	1,89,62,676	12,91,080	2,02,53,756	..
	During 1918–1919	88,141	29,444	664	170	1,18,079	4,296	1,22,375	..

K. R. S. RAO,
Deputy Accountant-General.

C-I.—Statement showing the financial results of Irrigation and Navigation Works, Class I "Major" (Productive and Protective) and Class II "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending the 31st March 1919.

Works or systems.	Revenue (actual receipts). Irrigation. Irrigation revenue.	Share of land revenue.	Total.	Navigation.	Plantation.	Miscellaneous.	Total.	Less refunds of revenue.	Gross revenue less refunds.	Deduct share of old irrigation revenue.	Total revenue due to improvements.	Working expenses. Revenue management. Establishment. Direction.	Execution.	Civil officers.	Total revenue management.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CLASS I.—MAJOR PRODUCTIVE WORKS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Nagavalli river system	91,866	5,845	97,711	..	..	952	98,663	106	98,557	37,400	61,157	..	..	2,778	2,778
Godavari delta system	42,57,724	1,92,945	44,49,769	1,11,532	3,699	40,519	46,05,519	416	46,05,103	1,24,000	44,81,103	.	..	2,16,120	2,16,120
Kistna do.	34,00,101	1,34,851	35,34,952	74,680	7,151	36,365	36,53,148	922	36,52,226	71,000	35,81,226	..	..	1,72,242	1,72,242
Divi pumping system	1,54,222	23,621	1,77,843	.	8	1,313	1,79,164	..	1,79,164	20,300	1,58,864	..	..	7,008	7,008
Penner river canals system ..	8,25,107	59,660	8,84,767	..	..	2,548	8,87,315	..	8,87,315	2,56,000	6,31,315	..	..	30,810	30,810
Kurnool-Cuddapah canal ..	3,22,680	1,833	3,24,513	1,342	835	10,889	3,37,385	128	3,37,257	35,872	3,01,385	..	..	14,430	14,430
Barur tank	9,569	471	10,040	..	..	1,688	11,728	..	11,728	4,500	7,228	..	..	255	255
Poiney anicut system	21,819	5,451	27,270	..	616	14	27,900	..	27,900	38,000	— *10,100*	..	..	— *538*	— *538*
Cheyyar do.	81,087	3,314	84,401	..	1,856	46	86,303	..	86,303	39,000	47,303	..	..	2,269	2,269
Tirukkoyilur anicut system ..	96,123	3,362	99,485	..	1,006	94	1,00,585	..	1,00,585	60,000	40,585	..	..	1,974	1,974
Shatiatope do. ..	1,26,340	15,209	1,41,549	..	655	83	1,42,287	..	1,42,287	20,000	1,22,287	..	..	6,077	6,077
Lower Coleroon do. ..	3,93,698	51,510	4,45,208	..	2,336	2,520	4,50,064	6	4,50,058	1,55,000	2,95,058	..	..	14,510	14,510
Tolundar project	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..
Cauvery delta system	39,10,157	1,18,072	40,28,229	..	5,385	5,748	40,39,362	245	40,39,117	34,00,000	6,39,117	..	..	31,412	31,412
Periyar system	8,99,304	48,002	9,38,30	345	1,669	15,482	9,55,802	85	9,55,717	2,04,000	7,51,717	..	..	34,907	34,907
Srivaikuntam anicut system ..	2,20,326	1,490	2,21,816	..	516	4,432	2,26,764	..	2,26,764	79,000	1,47,764	..	..	7,141	7,141
Total ..	1,48,01,123	6,64,736	1,54,65,859	1,87,905	25,532	1,22,693	1,58,01,989	1,908	1,58,00,081	45,44,072	1,12,56,009	..	..	5,41,395	5,41,395
MAJOR PROTECTIVE WORKS.															
Rushikulya system	2,37,839	4,510	2,42,349	..	309	1,073	2,43,731	3	2,43,728	67,000	1,76,728	.		8,710	8,710
Bhavanasi tank project	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mopad tank project	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Venkatapuram tank project ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	2,37,839	4,510	2,42,349	..	309	1,073	2,43,731	3	2,43,728	67,000	1,76,728	..	..	8,710	8,710
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.															
Ganjam minor rivers system ..	1,38,869	7,324	1,46,193	..	32	77	1,46,302	..	1,46,302	95,000	51,302	..	..	2,560	2,560
Muniyeru project	23,838	60	23,898	..	.	451	24,349	..	24,349	2,500	21,849	..	..	1,070	1,070
Peddanaidu tank of Chennarowpalem	163	..	163	..	..	864	1,027	74	953	..	953	..	.	8	8
Jangamaheswarapuram tank ..	1,907	..	1,907	..	..	..	1,907	..	1,907	500	1,407	..	..	70	70
Atmakur tank	3,412	..	3,412	..	..	..	3,412	..	3,412	..	3,412	..	..	171	171
Dondapad tank	722	3	725	..	..	..	725	..	725	..	725	..	..	36	36
Hajipuram tank	3,129	15	3,144	..	..	74	3,218	..	3,218	..	3,218			157	157
Ponnalur tank	4,244	..	4,244	..	..	..	4,244	..	4,244	.	4,244	..	..	212	212

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C.-I.—Statement showing the financial results of Irrigation and Navigation Works, Class I "Major" (Productive and Protective) and Class II "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending the 31st March 1919—*cont.*

Works or systems.	Working expenses—*cont.* Maintenance of works. Establishment. Direction.	Execution.	Total.	Works.	Repairs.	Tools and plant.	Plantation.	Total cost of maintenance.	Indirect charges.	Grand total of working expenses.	Deduct old maintenance charges. Direct charges.	Indirect charges.	Total.	Total working expenses on improvements.	Net revenue. Total.	Due to improvements.
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
CLASS I.—MAJOR PRODUCTIVE WORKS.																
Nagavalli river system	2,143	8,575	10,718	14,100	14,704	694	..	40,216	1,501	44,495	4,041	151	4,192	40,303	54,062	20,854
Gödavari delta system	34,047	1,36,187	1,70,234	26,789	3,10,300	5,220	..	5,12,543	23,985	7,08,770	..	..	..	7,08,770	29,43,456	28,72,456
Kistna do.	7,933	31,730	39,663	1,806	76,734	1,216	..	1,19,419	5,887	1,32,314	18,520	861	19,381	1,12,933	46,850	45,931
Divi pumping system	2,511	10,043	12,554	2,970	60,554	330	..	76,408	1,758	1,08,976	35,667	820	36,487	72,489	7,78,339	5,58,826
Penner river canals system ..	17,236	68,943	86,179	46,368	85,855	1,353	..	2,19,755	12,242	2,46,427	4,968	273	5,241	2,41,186	90,830	60,199
Kurnool-Cuddapah canal ..	350	1,400	1,750	233	5,067	40	..	7,090	245	7,590	..	..	..	7,590	4,148	— 362
Barur tank	1,046	4,186	5,232	2,503	11,004	196	..	18,935	732	19,129	4,378	169	4,547	14,582	8,771	— 24,682
Poiney anicut system	2,975	11,901	14,876	6,651	31,753	556	..	53,836	2,083	58,198	4,494	174	4,668	53,520	28,115	— 6,317
Cheyyar do.	1,677	6,706	8,383	1,983	19,660	312	..	30,339	1,174	33,487	6,913	267	7,180	26,307	67,098	14,278
Tirukkoyilur anicut system ..	1,430	5,722	7,152	1,565	16,896	267	..	26,880	1,001	32,958	2,304	89	2,393	30,565	1,09,329	9,722
Shatiatope do. ..	5,796	23,182	28,978	1,553	73,265	1,088	..	1,04,869	4,057	1,23,436	10,205	395	10,600	1,12,836	3,26,622	1,82,222
Lower Coleroon do. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Toludur project	15,973	63,893	79,866	13,286	1,90,366	2,850	..	2,86,368	11,181	3,28,951	1,48,083	5,729	1,53,812	1,75,139	37,10,166	4,03,978
Cauvery delta system	8,917	35,668	44,585	4,558	94,052	780	..	1,43,975	6,365	1,56,247	37,810	1,639	39,449	1,45,798	7,70,476	6,05,919
Periyar system	1,599	6,396	7,995	1,938	16,748	140	..	25,816	1,119	34,676	8,118	352	8,470	26,696	1,92,088	1,22,158
Srivaikuntam anicut system .																
Total ..	1,38,860	5,55,441	6,94,301	2,18,116	13,54,792	24,868	..	22,92,077	97,589	29,31,461	2,85,501	10,919	2,96,420	26,35,041	1,28,48,626	66,20,968
MAJOR PROTECTIVE WORKS.																
Sushikulya system	3,366	13,462	16,828	1,536	43,690	1,090	..	63,144	2,356	74,210	7,795	291	8,086	66,124	1,69,518	1,10,004
Bhavanasi tank project	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mopad tank project	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Venkatapuram tank project ..	65	261	326	..	500	5	..	831	46	877	..	..	..	877	— 877	—877
Total ..	3,431	13,723	17,154	1,536	44,190	1,095	..	63,975	2,402	75,087	7,795	291	8,086	67,001	1,68,641	1,09,727
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.																
Ganjam minor rivers system ..	1,197	4,790	5,987	727	15,805	398	..	22,918	838	28,316	6,453	236	6,689	19,627	1,19,980	31,675
Maniyeru project	611	2,446	3,057	233	6,942	96	..	9,328	428	10,826	336	15	350	10,476	13,523	11,373
Peddanaidu tank of Chennarowpalem	7	28	35	..	70	1	..	106	5	119	..	..	..	119	834	834
Jangamaheswarapuram tank ..	16	63	79	..	159	2	..	240	11	321	..	..	..	321	1,586	1,086
Atmakur tank	7	28	35	..	72	1	..	107	5	233	..	..	..	233	3,129	3,129
Dondapad tank	184	738	922	..	1,857	29	..	2,814	129	2,979	..	..	..	2,979	— 2,254	— 2,254
Hajipuram tank	..	..	..	..	..	..	..	..	..	157	..	..	..	157	3,061	3,061
Ponnalur tank	131	526	657	..	3,500	18	..	4,175	92	4,479	..	..	..	4,479	— 235	— 235

C.-I.—Statement showing the financial results of Irrigation and Navigation Works, Class I "Major" (Productive and Protective) and Class II "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending the 31st March 1919—*cont.*

Works or systems.	Revenue (actual receipts). Irrigation. Irrigation revenue.	Share of land revenue.	Total.	Navigation.	Plantation.	Miscellaneous.	Total.	Less refunds of revenue.	Gross revenue less refunds.	Deduct share of old irrigation revenue.	Total revenue due to improvements.	Working expenses. Revenue management. Establishment. Direction.	Execution.	Civil officers.	Total revenue management.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—*cont.*	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Anamasamudram-Birapura tank ..	3,937	1	3,938	..	..	..	3,938	..	3,938	3,600	338	..	..	17	17
Yerur tank	3,541	64	3,605	..	..	..	3,605	..	3,605	425	3,180	..	..	159	159
Vamula tank	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sagileru tank	7,700	4	7,704	..	..	51	7,755	..	7,755	17,800	10,045	..	..	—505	—505
Talapulavanka tank	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cumbum tank	48,179	461	48,640	..	..	..	48,640	..	48,640	30,000	18,640	..	..	932	932
Markapur tank project	8,187	1	8,188	..	..	80	8,268	..	8,268	2,130	6,138	..	..	303	303
Yellanur do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kocheruvu do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Siddapur do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nagavaram anicut and supply channel	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Arkenkota channel	38,216	410	38,626	..	..	154	38,780	..	38,780	19,000	19,780	..	..	982	982
Thadapalli do.	1,38,382	2,900	1,41,282	..	..	1,321	1,42,603	..	1,42,603	76,000	66,603	..	..	3,264	3,264
Kalingaroyan do.	1,21,914	483	1,22,397	..	..	2,222	1,24,619	6	1,24,613	85,000	39,613	..	..	1,870	1,870
Kaniyampalayam anicut ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Palar anicut system	1,83,922	16,733	2,00,655	..	1,819	206	2,02,680	..	2,02,680	1,25,000	77,680	..	..	3,736	3,736
Valluru do.	7,247	1,074	8,321	..	54	501	8,876	..	8,876	5,000	3,876	..	..	166	166
Madras water-supply and irrigation system	28,058	462	28,520	..	409	32,871	61,791	..	61,791	11,000	50,791	..	..	876	876
Chembrambakam tank ..	66,151	908	67,059	..	9	366	67,434	..	67,434	16,000	51,434	..	..	2,553	2,553
Mahamatur anicut system ..	19,361	51	19,412	..	88	39	19,539	..	19,539	4,000	15,539	..	..	771	771
Vriddhachalam do. ..	32,305	294	32,599	..	308	12	32,919	..	32,919	8,500	24,419	..	..	1,205	1,205
Peiandorai do. ..	44,308	76	44,384	..	415	394	45,193	..	45,193	3,000	42,193	..	..	2,069	2,069
Nandyar channel system ..	22,216	54	22,270	..	..	907	23,177	..	23,177	17,000	6,177	..	..	263	263
Marudur anicut system	2,06,542	270	2,06,812	..	182	1,897	2,08,891	..	2,08,891	1,15,000	93,891	..	..	4,591	4,591
Panjapatti reservoir	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
NAVIGATION WORKS.															
Chilka Lake canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganjam-Gopalpur canal	..	..	..	..	56	..	56	..	56	..	56	..	..	..	..
Buckingham canal	..	..	..	80,328	760	6,369	87,457	29	87,428	..	87,428	..	..	..	..
Vedaranniyam canal (*a*)	..	..	..	607	..	32	639	1	638	..	638	..	..	..	..
Total, Minor Works and Navigation ..	11,56,450	31,648	11,88,098	80,935	4,123	48,888	13,22,044	110	13,21,934	6,36,455	6,85,479	..	..	27,536	27,536

(*a*) The District Board's share of the receipts from the canal amounted to Rs. 638 and that of the expenditure on the canal amounted to Rs. 7,182.

C-I.—Statement showing the financial results of Irrigation and Navigation Works, Class I "Major" (Productive and Protective) and Class II "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending the 31st March 1919—*cont.*

Works or systems	Working expenses—*cont.*															
	Maintenance of works.										Deduct old maintenance charges.					
	Establishment.															
	Direction.	Execution.	~~Total.~~	Works.	Repairs.	Tools and plant.	Plantation.	Total cost of maintenance.	Indirect charges.	Grand total of working expenses.	Direct charges.	Indirect charges.	Total.	Total working expenses on improvements.	Net revenue. Total.	Net revenue. Due to improvements.
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—*cont.*	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Anamasamudram-Biraperu tank ..	..	..	..	..	..	..	..	..	.	17	967	44	1,011	—994	3,221	1,332
Yerur tank	130	519	649	..	3,459	18	..	4,126	91	4,376	..	..	..	4,376	— 771	— 1,196
Vamala tank	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sagileru tank	168	672	840	53	1,226	13	..	2,162	118	1,775	3,609	196	3,805	— 2,030	5,980	— 3,015
Talapulavanka tank	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..
Cumbum tank	850	3,397	4,247	422	6,197	68	..	10,934	595	12,461	1,310	71	1,381	11,080	36,179	7,560
Markapur tank project	425	1,700	2,125	2,395	916	34	..	5,470	297	6,070	400	22	422	5,648	2,198	420
Yellanur do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kocheruvu do.	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..
Siddapur do.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nagavaram anicut and supply channel	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..
Arkenkota channel	240	961	1,201	152	3,596	28	..	4,977	168	6,127	1,156	40	1,326	4,901	32,563	14,879
Thadapalli do.	691	2,764	3,455	219	10,564	81	..	14,319	484	18,067	4,740	160	4,900	13,167	1,24,536	13,436
Kalingarayan do.	1,062	4,249	5,311	1,021	15,557	125	..	22,014	743	24,627	5,301	179	5,480	19,147	99,986	20,466
Kaniampalayam anicut	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Palar anicut system	3,344	13,376	16,720	5,480	50,894	594	..	73,688	2,341	79,765	3,684	81	3,765	76,002	1,22,916	1,678
Valluru do.	51	201	252	122	1,221	7	..	1,602	35	1,803	1,555	34	1,589	214	7,073	3,662
Madras water-supply and irrigation system	525	2,101	2,626	1,432	12,564	73	..	16,696	368	17,929	4,534	100	4,635	13,306	43,852	37,456
Chembrambakam tank	383	1,555	1,944	1,993	8,759	54	..	12,750	472	15,185	5,415	142	5,560	8,625	52,249	42,809
Mohamatur anicut system ..	160	640	800	2	2,117	31	..	2,950	112	3,835	885	34	919	2,914	15,706	12,625
Vriddhachalam do. ..	244	977	1,221	..	3,234	47	..	4,502	171	5,875	..	..	..	5,875	27,041	18,541
Pelandorai do. ..	1,044	4,177	5,221	2,002	11,434	200	..	19,257	1,212	22,538	163	6	169	22,369	22,635	19,824
Nandyar channel system ..	173	691	864	201	1,752	15	..	2,832	121	3,216	4,960	199	4,849	— 1,633	19,961	7,810
Marudur anicut system	366	1,462	1,828	99	4,035	32	..	5,994	250	10,841	6,815	291	7,106	3,735	1,98,050	90,156
Panjapatti reservoir	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
NAVIGATION WORKS.																
Chilka Lake canal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganjam-Gopalpur canal ..	12	47	59	..	162	4	..	225	8	233	..	..	..	233	— 177	— 177
Buckingham canal	6,065	24,221	30,276	7,902	1,52,564	841	..	1,52,483	4,239	1,96,722	..	.	..	1,96,722	1,09,294	— 1,09,294
Vedaraniyam canal	496	1,985	2,481	229	6,346	95	..	9,151	347	9,498	..	..	..	9,498	— 8,860	— 8,860
Total, Minor Works and Navigation ..	18,578	74,314	92,892	24,614	3,25,018	2,965	..	4,45,429	13,486	4,36,461	58,002	1,850	54,852	4,21,599	8,35,482	2,53,[illegible]

K. R. S. RAO,
Deputy Accountant-General.

C-II.—Statement showing the financial results of irrigation works for, and up to the end of, 1918–1919.

No.	Name of works.	General financial results to end of 1918–1919.								
		Mileage in operation.		Estimated cost of construction (direct and indirect).	Date of completion of work (P.W.D. Code II, 1918).	Date when system first came into operation.	Total capital outlay (direct and indirect).	Accumulated arrears of interest.	Accumulated surplus revenues.	Total sum-at-charge (column 7 + column 8).
		Main canals and branches.	Distributaries.							
1	2	3	4	5	6 (*a*)	6 (*b*)	7	8	9	10
	PRODUCTIVE WORKS—*Irrigation*	MILES.	MILES.	RS.			RS.	RS.	RS.	RS.
1	Nagavalli river project..	23⅔	78	18,45,569	..	1909–10	16,91,476	4,02,989	..	20,94,465
2	Gödāvari delta system	511	1,993½	1,57,15,185	1846–47	1877–78	1,52,94,755	..	8,49,71,403	1,52,94,755
3	Kistna do.	349	2,185½	1,66,10,360	1855–56	1876–77	1,65,30,646	..	6,04,93,452	1,65,30,646
4	Divi Pumping project	50	115⅔	20,34,051	31st Oct. 1913.	1907–08	19,77,109	2,89,516	..	22,66,625
5	Penner river canals system	31	477	67,38,362	1860–61	1860–61	67,26,103	..	47,42,870	67,26,103
6	Kurnool-Cuddapah canal	413⅔	289½	2,33,64,656	1882–83	1882–83	2,31,57,716	2,81,37,988	..	5,22,95,704
7	Barur tank	11	26	4,43,113	1887–88	1887–88	4,43,113	3,30,440	..	7,73,553
8	Poiney anicut system	104	78	2,79,704	1855–56	..	2,52,837	..	9,62,099	2,52,837
9	Cheyyar do.	61	120	4,54,679	1852–53	..	4,37,459	..	1,29,465	4,37,459
10	Tirukkōyilūr anicut system	137	28½	3,75,948	1861–62	..	3,75,948	..	3,07,395	3,75,948
11	Shatiatope do.	41	149	9,72,516	1847–48	..	9,72,516	..	32,17,567	9,72,516
12	Lower Coleroon do.	486	620	19,42,679	1848–49	..	19,42,877	..	1,16,78,040	19,42,877
13	Tolundur project	..	..	32,10,000	..	..	13,82,906	1,14,850	..	14,97,756
14	Cauvery delta system	1,507	1,971	*45,08,127	1836–37	..	44,23,128	..	3,72,21,231	44,23,128
15	Periyar system	145	106	1,06,80,194	1896–97	1896–97	1,06,73,201	11,08,395	..	1,17,81,596
16	Srivaikuntam anicut system	28	48	17,35,678	1870–71	..	17,39,064	..	10,22,302	17,39,064
	Total, Productive Works ..	3,598	8,283½	9,09,10,821	..	..	8,80,20,854	3,13,84,178	20,47,45,824	11,94,05,032
	PROTECTIVE WORKS—*Irrigation.*									
1	Kushikulya system	80	151	51,19,424	1891–92	1892–93	51,07,882	30,17,204	..	81,25,086
2	Bhavanasi project	6⅓	..	2,09,000	..	..	2,60,439	29,806	..	2,90,245
3	Mopad project	..	..	21,97,000	..	..	20,94,500	4,00,731	..	24,95,231
4	Venkatapuram tank	..	..	3,46,600	..	..	3,81,639	85,005	..	4,66,644
	Total, Protective Works ..	86⅓	151	78,72,024	..	..	78,44,460	35,32,746	..	1,13,77,206
	Grand total ..	3,984⅓	8,434½	9,87,82,845	..	..	9,58,65,314	3,49,16,924	..	13,07,82,238
	MINOR IRRIGATION WORKS.									
1	Ganjām minor rivers system	119	225	2,68,385	..	..	2,68,385	..	..	..
2	Muniyēru project	60¾	6½	6,99,434	..	..	5,98,602	..	..	..
3	Peddanayudu tank of Chinnarowpalem	2⅓	¾	83,960	..	..	63,495	..	..	..
4	Jangamaheswarapuram tank	..	5⅓	71,664	..	..	71,664	..	..	..
5	Atmakur tank	..	4½	1,23,379	..	..	1,23,379	..	..	..
6	Dondapad tank	..	6⅞	1,40,004	..	..	1,40,004	..	..	..
7	Hajipuram tank	..	4½	3,11,883	..	..	3,11,883	..	..	..

C-II.—Statement showing the financial results of irrigation works for, and up to the end of, 1918–1919—*cont.*

No.	Name of works.	Financial results of the year 1918–1919. Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay, column 7.	Percentage on sum-at-charge, column 10.	Interest at 3·4818 per cent on direct capital outlay to end of previous year plus half the outlay of the year.	Net profit.	Net loss.	Area irrigated.	Percentage of working expenses to receipts (column 11 to column 12).
		11	12	13	14	15	16	17	18	19	20
		RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS	RS.	ACS.	PER CENT.
	Productive Works—*Irrigation*—cont.										
1	Nagavalli river project ..	61,157	40,303	20,854	1·23	1·00	57,448	..	36,594	10,436	65·90
2	Godavari delta system ..	44,81,103	5,67,417	36,13,686	23·63	23·63	4,60,863	31,52,825	..	907,848	19·26
3	Kistna do. ..	35,81,226	7,08,770	28,72,456	17·38	17·38	5,36,928	23,35,528	..	653,457	19·79
4	Divi Pumping project ..	1,58,864	1,12,933	45,931	2·32	2·03	67,298	..	21,367	21,543	71·09
5	Penner river canals system ..	6,31,315	72,489	5,58,826	8·31	8·31	1,98,728	3,60,098	..	91,565	11·48
6	Kurnool-Cuddapah canal ..	3,01,385	2,41,186	60,199	0·26	0·12	8,01,359	..	7,41,160	74,819	80·03
7	Barur tank ..	7,228	7,590	— 362	— 0·08	— 0·05	14,602	..	14,964	1,816	105·01
8	Poiney anicut system ..	— 10,100	14,582	— 24,682	— 9·76	— 9·76	8,448	..	33,130	—1,061	..
9	Cheyyar do. ..	47,303	53,520	— 6,217	— 1·42	— 1·42	14,822	..	21,039	8,388	113·14
10	Tirukkoyilur anicut system ..	40,585	26,307	14,278	3·80	3·80	12,770	1,508	..	11,816	64·82
11	Shatiatope do. ..	1,22,287	30,565	91,722	9·42	9·43	31,867	59,855	..	28,396	24·99
12	Lower Coleroon do. ..	2,95,058	1,12,836	1,82,222	9·38	9·38	65,127	1,17,095	..	68,319	38·24
13	Toludur project ..	..	..	..	..	..	37,316	..	37,316	..	..
14	Cauvery delta systems ..	6,39,117	1,75,139	4,63,978	10·49	10·49	1,46,774	3,17,264	..	145,861	27·04
15	Periyar system ..	7,51,717	1,45,798	6,05,919	5·68	5·14	3,58,685	2,47,234	..	91,406	19·4
16	Srivaikuntam anicut system ..	1,47,764	25,606	1,22,158	7·02	7·02	56,750	65,408	..	16,630	17·3
	Total, Productive Works ..	1,12,56,009	26,35,041	86,20,968	9·79	7·22	28,69,725	57,51,243	..	2,131,029	23·41
	Protective Works—*Irrigation*—cont.										
1	Rushikulya system ..	1,76,728	66,124	1,10,604	2·17	1·35	1,63,245	..	52,641	49,745	37·42
2	Bhavanani project ..	..	..	..	..	..	8,221	..	8,221	..	..
3	Mopad project ..	..	..	..	..	..	66,787	..	66,787	..	..
4	Venkatapuram tank ..	..	877	— 877	— 0·33	0·19	12,813	..	13,690	..	..
	Total, Protective Works ..	1,76,728	67,001	1,09,727	1·40	0·96	2,51,066	..	1,41,339	49,745	37·21
	Grand total ..	1,14,32,737	27,02,042	87,30,695	9·11	6·68	31,20,791	56,09,904	..	2,180,774	23·63
	Minor Irrigation Works—*cont.*										
1	Ganjám minor rivers system ..	51,362	19,627	31,675	11·80	..	8,989	22,686	..	18,755	38·26
2	Muniyéru project ..	21,849	10,476	11,373	1·89	..	19,810	..	8,437	5,827	47·95
3	Peddapegudu tank of Chinnarowpalem ..	953	119	834	1·21	..	2,162	..	1,328	41	12·49
4	Jangamaheswarapéram tank ..	1,487	331	1,066	1·53	..	2,133	..	1,047	646	22·31
5	Atmakur tank ..	3,412	283	3,129	2·54	..	3,828	..	699	939	8·29
6	Doudapad tank ..	725	2,979	— 2,254	— 1·60	..	4,345	..	6,599	186	410·90
7	Hajipuram tank ..	3,218	157	3,061	0·96	..	9,706	..	6,645	666	4·88

C-II.—Statement showing the financial results of irrigation works for, and up to the end of, 1918–1919—*cont.*

No.	Name of work.	General financial results to end of 1918–1919—*cont.* Mileage in operation. Main canals and branches.	Distributaries.	Estimated cost of construction (direct and indirect).	Date of completion of work (P.W.D. Code II, 1918).	Date, when system first came into operation.	Total capital outlay (direct and indirect).	Accumulated arrears of interest.	Accumulated surplus revenues.	Total sum-at-charge (column 7 + column 8).
1	2	3	4	5	6 (*a*)	6 (*b*)	7	8	9	10
	Minor Irrigation Works—*cont.*									
8	Pornalur tank ..	..	7	RS. 2,22,383	..	..	RS. 2,13,217	..	..	..
9	Anamasamudram-Biraperu tank ..	..	2½	73,573	..	..	73,573	..	..	..
10	Yerur tank ..	..	..	63,353	..	..	63,353	..	..	..
11	Vamula tank ..	..	..	63,757	..	..	63,757	..	..	..
12	Sagileru tank ..	12	..	4,64,727	..	..	4,64,727	..	..	..
13	Talapulavanka tank ..	..	..	68,824	..	..	68,824	..	..	..
14	Cumbum tank ..	..	23¾	86,373	..	..	86,373	..	..	..
15	Markapur tank project ..	7½	..	1,20,658	..	..	1,20,658	..	..	..
16	Yellanur do. ..	..	..	2,65,800	..	..	2,67,457	..	..	..
17	Kocheruvu do. ..	..	..	1,31,500	..	..	1,34,393	..	..	..
18	Siddapur do. ..	..	..	9,48,600	..	..	8,44,891	..	..	..
19	Nagavaram anicut and supply channel ..	..	..	1,05,795	..	..	1,09,890	..	..	..
20	Arkenkota channel ..	24	..	1,50,682	..	..	1,44,445	..	..	..
21	Thadapalli do. ..	83	..	1,81,430	..	..	1,75,805	..	..	..
22	Kalingaroyan channel ..	61	..	1,81,886	..	..	1,80,486	..	..	..
23	Kaniyampalayam anicut ..	..	..	96,744	..	..	80,987	..	..	..
24	Palar anicut system ..	156	139	24,53,700	..	..	24,43,978	..	..	..
25	Valluru do. ..	5¾	8	76,201	..	..	76,416	..	..	..
26	Madras water-supply and irrigation system ..	11¼	..	18,00,878	..	..	17,86,068	..	..	..
27	Chembrambakkam tank ..	10¼	1⅝	7,61,517	..	..	7,54,293	..	..	..
28	Mehamattur anicut system ..	15	9¼	72,658	..	..	72,658	..	..	..
29	Vriddhachalam do. ..	33	16	86,685	..	..	86,685	..	..	..
30	Pelandorai do. ..	89	25	6,90,623	..	..	6,79,736	..	..	..
31	Nandyar channel system ..	31½	..	65,715	..	..	65,715	..	..	..
32	Marudur anicut do. ..	29	7½	51,806	..	..	51,806	..	..	..
33	Panjapatti reservoir ..	..	..	4,04,600	..	..	3,41,242	..	..	..
	Total ..	700¼	492½	1,13,94,177	..	..	1,10,28,845	..	..	..
	Minor Navigation Works.									
34	Chilka lake canal ..	9	..	31,027	..	..	31,027	..	..	..
35	Ganjám-Gopálpur canal ..	..	..	1,55,493	..	..	1,55,493	..	..	..
36	Buckingham canal ..	262	..	90,44,271	..	..	90,24,334	..	..	..
37	Vedaranniyam canal ..	34½	..	1,36,432	..	..	1,36,432	..	..	..
	Total ..	304½	..	93,67,223	..	..	93,47,286	..	..	..
	Grand total ..	1,004¾	492½	2,07,61,400	..	..	2,03,76,131	..	..	..

C-II.—Statement showing the financial results of irrigation works for, and up to the end of, 1918–1919—*cont.*

No.	Name of work.	Financial results of the year 1918–1919—*cont.* Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay, column 7.	Percentage on sum-at-charge, column 10.	Interest at 3·4730 per cent on direct capital outlay to end of previous year, plus half the outlay of the year.	Net profit.	Net loss.	Area irrigated.	Percentage of working expenses to receipts (column 11 to column 12).
		11	12	13	14	15	16	17	18	19	20
	Minor Irrigation Works—*cont.*	RS.	RS.	RS.	PER CENT.		RS.	RS.	RS.	ACS.	PER CENT.
8	Ponnalur tank	4,244	4,479	— 235	— 0·11	..	6,439	..	6,674	924	105·54
9	Anamasamudram-Biraperu tank	338	— 994	1,332	1·81	..	2,495	..	1,164	20	— 294·08
10	Yerur tank	2,180	4,376	— 1,196	— 1·89	..	2,150	..	3,346	1,264	187·61
11	Vamula tank	..	..	..	..	..	2,165	..	2,165	..	..
12	Sagileru tank	—10,045	— 2,030	— 8,015	— 1·72	..	15,567	..	2,3582	— 463	— 20·21
13	Talapulavanka tank	..	..	..	..	..	2,308	..	2,308	..	..
14	Cumbum tank	18,640	11,080	7,560	8·75	..	2,924	4,636	..	1,002	59·44
15	Markapur tank project	6,188	5,648	490	0·41	..	4,062	..	3,572	1,644	92·02
16	Yellanur do.	..	..	..	..	..	8,033	..	8,033	..	..
17	Kocheruvu do.	..	..	..	..	..	4,214	..	4,214	..	..
18	Siddapur do.	..	..	..	..	..	29,167	..	29,167	..	..
19	Nagaveram anicut and supply channel	..	..	..	..	..	3,736	..	3,736	..	..
20	Arkenhota channel	19,780	4,901	14,879	10·30	..	4,901	9,978	..	2,401	24·78
21	Thadapalli do.	66,603	13,167	53,436	30·39	..	5,736	47,700	..	6,292	19·77
22	Kalingarayan channel	39,613	19,147	20,466	11·34	..	6,127	14,339	..	3,155	48·34
23	Kaniyampalayam anicut	..	..	..	..	..	2,208	..	2,208	..	..
24	Palar anicut system	77,680	76,002	1,678	0·06	..	81,910	..	79,332	12,890	97·84
25	Velturu do.	2,876	314	2,562	4·79	..	2,495	1,167	..	1,217	5·52
26	Madras water-supply and irrigation system	50,791	13,303	37,488	2·1	..	53,868	..	16,388	4,630	26·20
27	Chembrambakkam tank	51,434	8,625	42,809	5·68	..	22,300	20,509	..	7,583	16·77
28	Meharnattur anicut system	15,539	2,914	12,625	17·38	..	2,464	10,161	..	3,498	18·75
29	Vriddhachalam do.	24,419	5,878	18,541	21·29	..	2,931	15,610	..	5,942	24·07
30	Pelandorai do.	42,193	22,369	19,824	2·93	..	21,629	..	2,005	9,621	53·02
31	Nandiyar channel system	6,177	— 1,633	7,810	11·88	..	2,202	5,608	..	2,182	— 26·44
32	Marudur anicut do.	93,891	3,735	90,156	174·02	..	1,760	88,295	..	15,537	3·98
33	Panjapatti reservoir	..	..	..	..	..	10,647	..	10,647	..	..
	Total	5,97,357	2,25,146	3,72,211	8·37	..	3,54,712	17,499	..	105,094	37·69
	Minor Navigation Works.										
34	Chilka lake canal	..	..	..	..	..	1,053	..	1,053	..	..
35	Ganjam-Gopalpur canal	56	233	— 177	— 0·11	..	4,943	..	5,120	..	416·07
36	Buckingham canal	57,428	1,96,722	— 1,09,294	— 1·21	..	2,96,930	..	4,06,224	..	225·01
37	Vedaranniyam canal	638	9,496	— 8,860	— 6·49	..	4,620	..	13,480	..	1,488·71
	Total	58,122	2,06,453	— 1,18,331	— 1·27	..	3,07,586	..	4,25,917	..	284·28
	Grand total	6,55,479	4,31,599	2,52,880	1·25	..	6,92,298	..	4,66,418	105,094	62·96

K. R. S. RAO,
Deputy Accountant-General.

C-III—Demands and Realizations during the year 1918–1919 in the Madras Presidency.

"Major" (Productive and Protective) and "Ordinary Minor" works for which Capital and Revenue Accounts are kept.

Works or systems.	Balance of demands unrealised at commencement of the year.	Demand of the year.	Total.	Deduct remissions including cash refunds.	Net total.	Deduct amount unrealized at close of the year.	Actual total receipts of the year.	Deduct share due to old irrigation.	Net revenue due to improvements.
1	2	3	4	5	6	7	8	9	10
Class I.—Major Productive Works.		RS.	RS.	RS.	RS.		RS.	RS.	RS.
Nagavalli river system	..	99,383	99,383	826	98,557	..	98,557	37,400	61,157
Godavari delta system	..	46,33,251	46,33,251	28,148	46,05,103	..	46,05,103	1,24,000	44,81,103
Kistna do.	..	37,75,888	37,75,888	1,23,662	36,52,226	..	36,52,226	71,000	35,81,226
Divi pumping system	..	1,79,332	1,79,332	168	1,79,164	..	1,79,164	20,300	1,58,864
Penner river canals system	..	8,98,128	8,98,128	10,813	8,87,315	..	8,87,315	2,56,000	6,31,315
Kurnool-Cuddapah canal	..	3,38,104	3,38,104	847	3,37,257	..	3,37,257	35,872	3,01,385
Barur tank	..	22,830	22,830	11,102	11,728	..	11,728	4,500	7,228
Poiney anicut system	..	1,00,952	1,00,952	73,052	27,900	..	27,900	38,000	— 10,100
Cheyyar do.	..	1,01,980	1,01,980	15,677	86,303	..	86,303	39,000	47,303
Tirukkoyilur do.	..	1,07,009	1,07,009	6,424	1,00,585	..	1,00,585	60,000	40,585
Shatiatope do.	..	1,42,345	1,42,345	58	1,42,287	..	1,42,287	20,000	1,22,287
Lower Coleroon anicut system	..	4,56,799	4,56,799	6,741	4,50,058	..	4,50,058	1,55,000	2,95,058
Toludur project	..	..	..	..	..	..	..	..	..
Cauvery delta system	..	43,94,642	43,94,642	3,55,525	40,39,117	..	40,39,117	34,00,000	6,39,117
Periyar system	..	9,78,615	9,78,615	22,898	9,55,717	..	9,55,717	2,04,000	7,51,717
Srivaikuntam anicut system	..	2,27,842	2,27,842	1,078	2,26,764	..	2,26,764	79,000	1,47,764
Total	..	1,64,57,100	1,64,57,100	6,57,019	1,58,00,081	..	1,58,00,081	45,44,072	1,12,56,009
Major Protective Works.									
Rushikulya system	..	2,47,830	2,47,830	4,102	2,43,728	..	2,43,728	67,000	1,76,728
Bhavanasi project	..	..	..	..	..	..	..	..	..
Mopad project	..	..	..	..	..	..	..	..	..
Venkatapuram tank project	..	..	..	..	..	..	..	..	..
Total	..	2,47,830.	2,47,830	4,102	2,43,728	..	2,43,728	67,000	1,76,728
Class II.—Minor Works and Navigation for which Capital and Revenue Accounts are kept.									
Ganjam minor rivers system	..	1,48,241	1,48,241	1,939	1,46,302	..	1,46,302	95,000	51,302
Muniyeru project	..	26,418	26,418	2,069	24,349	..	24,349	2,500	21,849
Peddinayudu tank of Chinnarowpalem	..	1,027	1,027	74	953	..	953	..	953
Jangamaheswarapuram tank	..	2,642	2,642	735	1,907	..	1,907	500	1,407
Atmakur tank	..	3,412	3,412	..	3,412	..	3,412	..	3,412
Doudapad tank	..	725	725	..	725	..	725	..	725

C-III.—Demands and Realizations during the year 1918–1919 in the Madras Presidency—*cont.*

"Major" (Productive and Protective) and "Ordinary Minor" works for which Capital and Revenue Accounts are kept—*cont.*

Works or systems.	Balance of demands unrealized at commencement of the year.	Demand of the year.	Total.	Deduct remissions including cash refunds.	Net total.	Deduct amount unrealized at close of the year.	Actual total receipts of the year.	Deduct share due to old irrigation.	Net revenue due to improvements.
1	2	3	4	5	6	7	8	9	10
CLASS II.—MINOR WORKS AND NAVIGATION, ETC.—*cont.*		RS.	RS.	RS.	RS.		RS.	RS.	RS.
Hajipuram tank	..	3,218	3,218	..	3,218	..	3,218	..	3,218
Ponnalur tank	..	4,826	4,826	582	4,244	..	4,244	..	4,244
Anamasamudram-Birapera tank	..	3,938	3,938	..	3,938	..	3,938	3,600	338
Yerur tank	..	3,769	3,769	164	3,605	..	3,605	425	3,180
Vemula tank	..	..	..	..	..	..	..	..	..
Sagileru tank	..	14,389	14,389	6,634	7,755	..	7,755	17,800	— 10,045
Talapulavanka tank	..	..	..	..	..	..	..	..	..
Cumbum tank	..	48,655	48,655	15	48,640	..	48,640	30,000	18,640
Markapur tank	..	8,268	8,268	..	8,268	..	8,268	2,130	6,138
Yellanur tank project	..	..	..	..	..	..	..	..	..
Kooheruvu tank do.	..	..	..	..	..	..	..	..	..
Siddapur tank do.	..	..	..	..	..	..	..	..	..
Nagavaram anicut and supply channel	..	..	..	..	..	..	..	..	..
Arkenkotta channel	..	39,006	39,006	226	38,780	..	38,780	19,000	19,780
Thadapalli do.	..	1,42,917	1,42,917	314	1,42,603	..	1,42,603	76,000	66,603
Kalingarayan channel	..	1,24,659	1,24,659	46	1,24,613	..	1,24,613	85,000	39,613
Kaniyanpalayam anicut	..	..	..	..	..	..	..	..	..
Pilar anicut system	..	3,32,781	3,32,781	1,30,101	2,02,680	..	2,02,680	1,25,000	77,680
Vallar do.	..	9,108	9,108	232	8,876	..	8,876	5,000	3,876
Madras water-supply and irrigation system	..	62,289	62,289	498	61,791	..	61,791	11,000	50,791
Chembrambakam tank	..	67,580	67,580	146	67,434	..	67,434	16,000	51,434
Mahamatur anicut system	..	19,678	19,678	139	19,539	..	19,539	4,000	15,539
Vriddhachalam do.	..	32,919	32,919	..	32,919	..	32,919	8,500	24,419
Pelandorai do.	..	45,214	45,214	21	45,193	..	45,193	3,000	42,193
Nandyar channel system	..	23,296	23,296	119	23,177	..	23,177	17,000	6,177
Marudur anicut system	..	2,09,550	2,09,550	659	2,08,891	..	2,08,891	1,15,000	93,891
Panjapatti reservoir project	..	..	..	..	..	..	..	..	..
NAVIGATION WORKS.									
Chilka lake canal	..	..	..	..	..	..	..	..	..
Ganjam-Gopalpur canal	..	56	56	..	56	..	56	..	56
Buckingham canal	..	87,457	87,457	29	87,428	..	87,428	..	87,428
Vedaranniyam canal	..	639	639	1	638	..	638	..	638
Total, Minor Works and Navigation	..	14,56,677	14,66,677	1,44,743	13,21,934	..	13,21,934	6,36,455	6,85,479

K. R. S. RAO,
Deputy Accountant-General.

C-IV.—Statement showing the financial results of Irrigation and Navigation Works—Class I "Major" (Productive and Protective), and Class II "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1918–1919 based on assessment for the year.

Works or systems.	Capital outlay (direct and indirect) to end of the year.	Revenue assessed during the year.													Net revenue of the year.		Percentage on capital outlay to end of year (improvements only).
		Direct revenue.					Indirect revenue, land revenue due to operations of canal.	Less refunds of revenue.	Grand total.	Deduct share due to old irrigation.	Total revenue due to improvements.	Working expenses.			Total.	Due to improvements.	
		Owner's rate.	Plantation.	Navigation.	Miscellaneous.	Total.						Total charges (direct and indirect).	Deduct old maintenance charges.	Total working expenses on improvements.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CLASS I.—MAJOR PRODUCTIVE WORKS.	RS.		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Nagavalli river system	18,45,569	..	..	..	952	952	97,711	106	96,557	37,400	61,157	44,496	4,192	40,303	54,062	20,854	1·23
Godavari delta system	1,57,15,185	..	3,699	1,11,532	40,519	1,55,750	44,49,769	416	46,05,103	1,24,000	44,81,103	8,67,417	..	8,67,417	37,37,686	36,13,686	23·63
Kistna do.	1,66,10,360	..	7,151	74,680	36,365	1,18,196	35,34,952	922	36,52,226	71,000	35,81,226	7,08,770	..	7,08,770	29,43,456	28,72,456	17·38
Divi pumping system	20,34,051	..	8	..	1,313	1,321	1,77,843	..	1,79,164	20,300	1,58,864	1,32,314	19,381	1,12,933	46,860	45,931	2·32
Penner river canals system	67,38,362	..	..	..	2,548	2,548	8,84,767	..	8,87,315	2,56,000	6,31,315	1,08,976	36,487	72,489	7,78,339	5,58,826	8·31
Kurnool-Cuddapah canal	2,33,64,656	..	635	1,348	10,889	12,872	3,24,513	128	3,37,257	35,872	3,01,385	2,46,427	5,241	2,41,186	9,830	60,199	0·26
Barur tank	4,43,113	..	..	..	1,688	1,688	10,040	..	11,728	4,500	7,228	7,590		7,590	4,138	— 362	— 0·08
Poiney anicut system	2,79,704	..	616	..	14	630	27,270	..	27,900	38,000	— 10,100	19,129	4,547	14,582	8,771	— 24,682	— 9·76
Cheyyar do.	4,54,079	..	1,856	..	46	1,902	84,401	..	86,303	39,000	47,303	58,188	4,668	53,520	28,115	— 6,217	— 1·42
Tirukkoyilur do.	3,75,948	..	1,006	..	94	1,100	99,485	..	1,00,585	60,000	40,585	33,487	7,180	26,307	67,098	14,278	3·80
Shatiatope do.	9,72,516	..	655	..	83	738	1,41,549	..	1,42,287	20,000	1,22,287	32,958	2,393	30,565	1,09,329	91,722	9·43
Lower Coleroon anicut system	19,42,679	..	2,336	..	2,520	4,856	4,45,208	6	4,50,058	1,55,000	2,95,058	1,23,436	10,600	1,12,836	3,26,622	1,82,222	9·38
Toludur project	32,10,000	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cauvery delta system	46,08,127	..	5,385	..	5,748	11,133	40,28,229	245	40,39,117	34,00,000	6,39,117	3,28,951	1,53,812	1,75,139	37,10,166	4,63,978	10·49
Periyar system	1,06,80,194	..	1,669	345	15,482	17,496	9,38,306	85	9,55,717	2,04,000	7,51,717	1,85,247	39,449	1,45,798	7,70,470	6,05,919	5·68
Srivaikuntam anicut system	17,35,678	..	516	..	4,432	4,948	2,21,816	..	2,26,764	79,000	1,47,764	34,076	8,470	25,606	1,92,688	1,22,158	7·02
Total	9,09,10,821	..	25,532	1,87,905	1,22,693	3,36,130	1,54,65,859	1,908	1,58,00,081	45,44,072	1,12,56,009	29,31,461	2,96,420	26,35,041	1,28,68,620	86,20,968	9·79
MAJOR PROTECTIVE WORKS.																	
Rushikulya system	51,19,424	..	309	..	1,073	1,382	2,42,349	3	2,43,728	67,000	1,76,728	74,210	8,086	66,124	1,09,518	1,10,604	2·17
Bhavanasi tank project	2,09,000	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mopad project	21,97,000	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Venkatapuram tank project	3,46,600	..	..	..	..	..	..	..	..	..	..	877	..	877	— 877	—877	— 0·23
Total	78,72,024	..	309	..	1,073	1,382	2,42,349	3	2,43,728	67,000	1,76,728	75,087	8,086	67,001	1,08,641	1,09,727	1·40

C-IV.—Statement showing the financial results of Irrigation and Navigation Works—Class I "Major" (Productive and Protective), and Class II "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1918–1919 based on assessment for the year—*cont.*

Works or systems.	Capital outlay (direct and indirect) to end of the year.	Revenue assessed during the year.													Net revenue of the year.		Percentage on capital outlay to end of year (improvements only).
		Direct revenue.					Indirect revenue, land revenue due to operations of canal.	Less refunds of revenue.	Grand total.	Deduct share due to old irrigation.	Total revenue due to improvements.	Working expenses.			Total.	Due to improvements.	
		Owner's rate.	Plantation.	Navigation.	Miscellaneous.	Total.						Total charges (direct and indirect).	Deduct old maintenance charges.	Total working expenses on improvements.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.	RS.		RS.		RS.	RS.	RS.	RS.	RS.	RS.	RS	RS.	RS.	RS.	RS.	RS.	
Ganjam minor rivers system ..	2,68,385	..	32	..	77	109	1,46,193	..	1,46,302	95,900	51,202	26,316	6,689	19,627	1,19,986	31,675	11·80
Muniyeru project	6,99,434	..	..	..	451	451	23,898	..	24,349	2,500	21,849	10,826	350	10,476	13,523	11,373	1·89
Peddanayudu tank of Chinnaraopalem.	88,960	..	..	..	864	864	163	74	953	..	953	119	..	119	834	834	1·31
Jangamaheswarapuram tank ..	71,664	..	..	..	..	..	1,907	..	1,907	500	1,407	321	..	321	1,586	1,086	1·52
Atmakur tank	1,23,379	..	..	..	..	..	3,412	..	3,412	..	3,412	283	..	283	3,129	3,129	2·54
Pondapad tank	1,40,004	..	..	..	..	..	726	..	726	..	726	2,979	..	2,979	— 2,254	— 2,254	— 1·60
Hajipuram tank	3,11,883	..	..	..	74	74	3,144	..	3,218	..	3,218	157	..	157	3,061	3,061	0·98
Ponnalur tank	2,22,383	..	..	..	..	..	4,244	..	4,244	..	4,244	4,479	..	4,479	— 235	— 235	— 0·11
Anamasamudram-Kupperu tank.	73,573	..	..	..	..	..	3,938	..	3,938	3,600	338	17	1,011	—994	3,921	1,332	1·81
Yerur tank	63,253	..	..	..	..	..	3,605	..	3,605	425	3,180	4,376	..	4,376	— 771	— 1,196	— 1·89
Vemula tank	63,757	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sagileru tank	4,64,727	..	..	..	51	51	7,704	..	7,755	17,800	— 9,045	1,775	3,805	— 2,030	5,980	— 8,015	— 1·72
Talapulavanka tank	68,824	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cumbum tank	86,373	..	..	..	..	..	48,640	..	48,640	30,000	18,640	12,461	1,381	11,080	36,179	7,560	8·75
Markapur tank project ..	1,20,658	..	..	..	80	80	8,188	..	8,268	2,130	6,138	6,070	422	5,648	2,198	490	0·41
Yellanur tank do. ..	2,65,800	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kocheruvu tank do. ..	1,31,500	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Siddapur tank do. ..	9,48,600	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nagavaram anicut and supply channel	1,05,795	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Arkenkota channel	1,50,682	..	..	..	154	154	38,626	..	38,780	19,000	19,780	6,127	1,226	4,901	32,653	14,879	10·30
Thadapalli do.	1,81,430	..	..	..	1,321	1,321	1,41,282	..	1,42,603	76,000	66,603	18,067	4,900	13,167	1,24,536	53,436	30·39
Kalingarayan do.	1,81,886	..	..	..	2,222	2,222	1,22,397	6	1,24,613	85,000	39,613	24,627	5,480	19,147	99,986	20,466	11·24
Kaniyampalaiyam anicut ..	96,744	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Palar anicut system ..	24,53,700	..	1,819	..	206	2,025	2,00,655	..	2,02,680	1,25,000	77,680	79,765	3,763	76,002	1,22,915	1,678	0·06
Valluru do. ..	76,201	..	54	..	501	555	8,321	..	8,876	5,000	3,876	1,808	1,589	214	7,072	3,662	4·79

C-IV.—Statement showing the financial results of Irrigation and Navigation Works—Class I "Major" (Productive and Protective), and Class II "Minor Works and Navigation" for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1918–1919 based on assessment for the year—*cont.*

Works or systems.	Capital outlay (direct and indirect) to end of the year.	Revenue assessed during the year.													Net revenue of the year.		Percentage on capital outlay to end of year (improvements only).
		Direct revenue.					Indirect revenue, land revenue due to operations of canal.	Less refunds of revenue.	Grand total.	Deduct share due to old irrigation.	Total revenue due to improvements.	Working expenses.			Total.	Due to improvements.	
		Owner's rate.	Plantation.	Navigation.	Miscellaneous.	Total.						Total charges (direct and indirect).	Deduct old maintenance charges.	Total working expenses on improvements.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CLASS II.—MINOR WORKS AND NAVIGATION—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—*cont.*	RS.		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
Madras Water-supply and Irrigation system	18,00,878	..	400	..	32,871	33,271	28,520	..	61,791	11,000	50,791	17,939	4,633	13,306	43,852	37,485	2·1
Chembrambakkam tank ..	7,61,517	..	9	..	366	375	67,059	..	67,434	16,000	51,434	15,185	6,560	8,625	52,249	42,809	5·68
Mchamattur anicut system ..	72,658	..	88	..	39	127	19,412	..	19,539	4,000	15,539	3,833	919	2,914	15,706	12,625	17·38
Vriddhachalam anicut system ..	86,685	..	308	..	12	320	32,599	..	32,919	8,500	24,419	5,878	..	5,878	27,041	18,541	21·39
Pelandorai do. ..	6,90,623	..	415	..	394	809	44,384	..	45,193	3,000	42,193	22,538	169	22,369	22,655	19,824	2·92
Nandyar channel system ..	65,715	..	..	..	907	907	22,270	..	23,177	17,000	6,177	3,216	4,849	— 1,633	19,961	7,810	11·88
Marudur anicut system ..	51,806	..	182	..	1,897	2,079	2,06,812	..	2,08,891	1,15,000	93,891	10,841	7,106	3,735	1,98,050	90,156	174·02
Panjapatti reservoir ..	4,04,600	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
NAVIGATION WORKS.																	
Chilka lake canal	31,027	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganjam-Gopalpur canal ..	1,55,493	..	56	..	..	56	..	..	56	..	56	233	..	233	— 177	— 177	— 0·11
Buckingham do. ..	90,44,271	..	760	80,328	6,369	87,457	..	29	87,428	..	87,428	1,96,722	..	1,96,722	— 1,09,294	— 1,09,294	— 1·21
Vedaranniyam do. ..	1,36,432	..	..	607	32	639	..	1	638	..	638	9,498	..	9,498	— 8,860	— 8,860	— 6·49
Total, Minor Works and Navigation ..	2,07,61,400	..	4,123	80,935	48,888	1,33,946	11,88,098	110	13,21,934	6,36,455	6,85,479	4,86,451	54,852	4,31,599	8,35,483	2,53,880	1·25

27th October 1919.

K. R. S. RAO,
Deputy Accountant-General.

D-I.—Statement of traffic on the principal navigable canals in the Madras Presidency during the year 1918–1919.

—		Godavari canals.	Kistna canals.	Kurnool-Cuddapah canal.	Buckingham canal.	Chilka lake canal.	Dumagudem canal.	Vedaranniyam canal.	Total.
1		2	3	4	5	6	7	8	9
Length of canal open for navigation	Miles.	497·53	834	190	262	8	2·6	34½	1,328·63
Receipts—									
Testing fees	Rs.	..	365	..	958	..	..	..	
Annual license fees	,,	35,618	35,060	..	54,722	..	..	572	
Six weeks' do.	,,	34,515	9,916	..	6,147	.	891	5	
Registration fees	,,	1	..	..	..	..	..	..	
Wharfage do.	,,	11,632	15,884	..	15,258	..	..	..	
Demurrage do.	,,	..	246	..	524	..	..	..	
Raft fees	,,	20,829	919	..	34	..	2,059	..	2,85,745
Numbering fees	,,	149	..	..	407	..	48	17	
Fines	,,	97	50	..	..	..	..	12	
Ground-rents	,,	4,545	7,972	..	1,787	..	61	..	
Miscellaneous	,,	287	446	..	7,223	..	..	32	
Refunds	,,	— 34	— 841	..	— 29	..	..	..	
Government boats and steamers	,,	7,817	24	..	..	..	..	..	
Boat rent	,,	4,220	3,448	1,495	397	..	..	..	
Total, Receipts ..	,,	1,19,686	73,439	1,495	87,428	..	3,059	638	2,85,745
Maintenance charges, including special navigation establishment.	,,	1,01,729	1,05,927	8,953	1,56,231	..	3,260	6,306	3,85,436
Net revenue (a) ..	,,	14,957	— 32,488	— 7,468	— 68,803	..	— 201	— 5,668	— 99,691
Total number of boats plying cargo		5,385	2,761	25	1,044	.	192	124	10,380
Do. passengers			..	8	797	..	42	..	
Total tonnage, cargo boats		643,411	651,248	5,501	196,933½	..	2,528	23,719	1,323,330½
Do. passenger boats									
Ton-mileage, up		3,408,989	1,460,845	81,111	9,712,811	..	2,366	453,762	24,577,748
Do. down		6,661,089	2,270,053	60,079	269,137	..	20,002	177,617	
Total		10,070,078	3,730,898	141,190	9,981,948	..	22,368	631,369	24,577,748
Estimated value of cargoes, up	Rs.	17,00,90,749	12,31,83,270½	16,31,318	1,35,93,936	..	3,41,580	18,56,662	31,70,05,857½
Do. down	,,				30,65,500	.	8,00,532	27,82,310	
Total	,,	17,00,90,749	12,31,83,270½	16,31,318	1,66,59,436	..	11,42,112	46,38,972	31,70,05,857½
Number of passengers		441,261	56,460	11	188,192	..	403	8,019	694,346
Rafts, tons, up		229	560	..	..	..	..	..	114,823
Do. down		89,300	15,858	..		..	3,876	..	
Total		89,529	16,418	..	..	..	3,876	..	114,823
Estimated value of rafts	Rs.	77,15,602	13,29,702	..	[illegible]	..	15,16,800	..	1,05,56,812
Tolls on boats per ton per mile		..	..	..	[illegible]	..	..	..	..
Do. on rafts per 100 square feet .. Timber ..	,,	1 0 0	..	..	[illegible]	..	0 4 0	..	..
Do. on rafts per 100 square feet .. Bamboos ..	,,	0 2 0	..	..	[illegible]	..	0 2 0	..	..

NOTE.—The figures as regards tonnage, ton-mileage and estimated value of cargoes are merely approximations.
(a) The primary object of the Godavari and Kistna canals is irrigation, from which there is a large revenue besides that here shown as due to navigation.

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1918–1919.

Description.	Godavari canals.						Kistna canals.					
	Total, Government and Private.				Private.		Total, Government and Private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Tons.	
1	2	3	4	5	6	7	8	9	10	11	12	13
Boat Traffic.				Rs.		Rs.				Rs.		Rs.
Cotton, raw and manufactured ..	1,363	1,226	2,589	70,05,106	2,589	70,05,106	195	507	702	41,41,620	702	41,41,620
Woollen goods do. ..	..	..	..	..	..	..	..	..	..	..	..	..
Dyes and tans	393½	1,087	1,480½	50,42,482	1,480½	50,42,482	53	116	169	7,19,433	169	7,19,433
Rice and paddy	127,265	47,307½	174,572½	2,18,57,387	1,74,572½	2,18,57,387	82,659	44,060	126,749	1,78,71,609	126,749	1,78,71,609
Other food-grains	5,558	14,407	19,965	23,95,800	19,965	23,95,800	1,962	8,181	10,143	12,17,170	10,143	12,17,170
Hides and skins	45	76	121	1,93,895	121	1,93,895	50	928	978	15,18,344½	978	15,18,344½
Liquors	256½	361½	618	13,13,250	618	13,13,250	13	18	31	65,875	31	65,875
Metals	607	445	1,052	11,42,080	1,052	11,42,080	159	277	436	11,45,916¾	436	11,45,916¾
Oils	1,439½	3,280	4,719½	34,97,150	4,719½	34,97,150	217	4,158	4,375	32,41,875	4,375	32,41,875
Oil-seeds	3,519	5,011	8,530	20,47,200	8,530	20,47,200	426	464	890	2,13,600	890	2,13,600
Provisions	34,906½	24,607	59,513½	9,98,04,139	59,513½	9,98,04,139	6,605	6,366	12,971	2,17,52,367	12,971	2,17,52,367
Salt	14,257	6,314	20,571	14,40,005	20,571	14,40,005	44,641	2,504	47,145	32,69,720	47,145	32,69,720
Spices	438	509½	947½	11,48,370	947½	11,48,370	..	1	1	1,212	1	1,212
Sugar and jaggery	9,742½	16,200½	25,943	45,63,164	25,943	45,63,164	667	3,038	3,705	8,92,905	3,705	8,92,905
Tobacco	1,371	4,089	5,460	60,43,745	5,460	60,43,745	416	570	986	13,18,282	986	13,18,282
Building materials	62,716	173,597½	236,313½	4,81,128	..	..	11,589	145,582	157,171	96,00,715	157,171	96,00,715
Miscellaneous goods	18,493½	15,951½	34,445	55,84,235	34,445	55,84,235	5,772	15,660	21,432	5,33,81,387	21,432	5,33,81,387
Timber	754	9,536½	10,290½	16,67,061	10,290½	16,67,061	1,517	8,571	10,088	16,34,256	10,088	16,34,256
Firewood	10,635	6,830½	17,465½	2,44,517	9,245½	1,29,437	34,355	1,611	35,966	5,03,524	35,966	5,03,524
Bamboos	458	17,044	17,502	7,00,080	17,502	7,00,080	1,247	15,976	17,223	6,88,920	17,223	6,88,920
Coal and coke	390½	249	639½	9,593	639½	9,593	2	78	80	1,200	79	1,185
Jute	77	584	661	3,15,297	661	3,15,297	4	3	7	3,339	7	3,339
Treasure	8	3½	11½	35,95,035	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..	..	..	..	..
Straw	..	..	..	..	..	..	..	..	..	..	..	..
Total, Boat Traffic ..	294,693½	348,717½	643,411	17,00,90,719	398,866	16,58,99,476	192,579	258,669	451,248	12,31,83,270¼	451,247	12,31,83,255¼
Raft Traffic.												
Timber in logs	206½	26,708½	26,915	50,60,020	26,915	50,60,020	146	3,935	4,081	7,67,228	4,081	7,67,228
Squared timber	17½	43½	61	14,335	61	14,335	7	213	220	51,700	220	51,700
Sleepers, broad gauge	..	..	..	..	..	..	..	..	..	..	..	..
Do. metre gauge	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	3	..	3	546	3	546	..	4	4	728	4	728
Poles	1	231	232	28,824	232	24,824	..	20	20	2,140	20	2,140
Firewood	1	50	51	663	51	663	..	..	..	..	..	..
Bamboos and reeds	..	62,267	62,267	26,15,214	62,267	26,15,214	407	11,686	12,093	5,07,906	12,093	5,07,906
Total, Raft Traffic ..	229	89,300	89,529	77,15,602	89,529	77,15,602	560	15,858	16,418	13,29,702	16,418	13,29,702
Grand Total ..	294,922½	438,017½	732,940	17,78,06,321	488,395	17,36,15,078	193,139	274,527	467,666	12,45,12,972¼	467,665	12,45,12,957¼

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1918–1919—*cont.*

Description.	Kurnool-Cuddapah canal.						Buckingham Canal.					
	Total, Government and Private.				Private.		Total, Government and Private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value	Quantity.	Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Total.	
	14	15	16	17	18	19	20	21	22	23	24	25
Boat Traffic.				RS.		RS.				RS.		RS.
Cotton, raw and manufactured ..	..	..	..	..	..	..	69	4	73	1,21,186	73	1,21,186
Woollen goods do. ..	..	..	..	..	..	..	..	..	..	..	..	..
Dyes and tans	..	..	..	..	..	..	..	..	..	..	..	..
Rice and paddy	60½	..	60½	7,079	60½	7,079	18,401½	894¼	19,295¾	28,03,230	19,295¾	28,03,230
Other food-grains	729	64	793	96,717	793	96,717	512	56½	568½	68,220	568½	68,220
Hides and skins	..	..	..	..	..	..	30	..	30	44,430	30	44,430
Liquors	..	..	..	..	..	..	..	..	..	..	..	..
Metals	10	449	459	1,72,584	..	..	92	60	152	68,400	152	68,400
Oils	..	11	11	18,447	11	18,447	..	91¾	91¾	67,987	91¾	67,987
Oil-seeds	46	5	51	12,240	51	12,240	117	8	125	30,000	125	30,000
Onions	..	..	..	..	..	..	..	..	..	..	..	..
Provisions	..	317	317	5,31,609	317	5,31,609	2,274	1,311	3,585	60,12,045	3,585	60,12,045
Salt	297	408½	705½	49,405	705½	49,405	3,284	8½	3,292½	2,30,475	3,292½	2,30,475
Spices	4	10	14	16,968	14	16,968	..	..	..	..	..	..
Sugar and jaggery	13½	25	38½	6,699	38½	6,699	31	..	31	6,734	31	6,734
Tobacco	..	..	..	..	..	..	1	1	2	4,224	2	4,224
Building materials	97	390	487	7,020	97	6,832	44,188	126	44,314	6,60,085	44,314	6,60,085
Miscellaneous goods	147	304½	451½	6,454	451½	6,454	1,630	206½	1,836½	47,36,880	1,836½	47,36,880
Timber	..	32	32	6,016	32	6,016	11½	325½	336½	54,553	336½	54,553
Firewood	715	270	985	13,790	715	10,010	121,838½	9	121,847½	17,10,407	121,847½	17,10,407
Bamboos	..	..	..	..	..	..	..	12	12	480	12	480
Coal and coke	..	..	..	..	..	..	1,328	12	1,340	20,100	1,340	20,100
Casuarina posts	..	..	..	..	..	..	..	..	..	..	..	..
Jute	..	..	..	..	..	..	..	..	..	..	..	..
Indigo seeds	23½	51	74½	4,36,272	74½	4,36,272	..	..	..	..	..	..
Skins	..	..	..	..	..	..	..	..	..	..	..	..
Treasure	..	..	..	..	..	..	..	..	..	..	..	..
Cloth	..	..	..	..	..	..	..	..	..	..	..	..
Kerosene-oil	1½	10	11½	8,818	11½	8,818	..	..	..	..	..	..
Turmeric	..	..	..	..	..	..	..	..	..	..	..	..
Cotton seeds	..	8	8	720	8	720	..	..	..	..	..	..
Other grains	..	..	..	..	..	..	..	..	..	..	..	..
Iron bars	..	..	..	..	..	..	..	..	..	..	..	..
Ground-nuts	300	702	1,002	2,40,480	1,002	2,40,480	..	..	..	..	..	..
Total, Boat Traffic ..	2,444¼	3,056¾	5,501	16,31,318	4,282	14,54,766	192,807¼	3,126	196,933¼	1,66,39,436	196,933¼	1,66,39,436
Raft Traffic.												
Timber in logs	..	..	..	..	..	..	..	..	..	..	..	..
Squared timber	..	..	..	..	..	..	..	..	..	..	..	..
Sleepers, broad gauge	..	..	..	..	..	..	..	..	..	..	..	..
Do. metre gauge	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..	..	..	..	..
Firewood	..	..	..	..	..	..	..	..	..	..	..	..
Bamboos	..	..	..	..	..	..	..	..	..	..	..	..
Total, Raft Traffic ..	..	..	..	..	..	..	..	..	..	..	..	..
Grand Total ..	[illegible]	[illegible]	5,501	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1918–1919—*cont.*

Description.	Chilka lake canal.						Dumagudem canal.						Vedaranniyam canal.					
	Total, Government and Private.				Private.		Total, Government and Private.				Private.		Total, Government and Private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Tons.	
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
Boat Traffic.										RS.		RS.				RS.		RS.
Cotton, raw and manufactured.	..	..	..	..	..	..	15½	..	15½	84,267	15½	84,267	..	14	14	76,520	14	76,520
Woollen goods	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dyes and tans	..	..	..	..	..	..	..	193	193	5,12,994	193	5,12,994	..	..	..	..	..	..
Rice and paddy	..	..	..	..	..	..	524½	..	524½	83,710½	524½	83,710½	507	662	1,169	1,67,541	1,169	1,67,541
Other food-grains	..	..	..	..	..	..	99	287½	386½	46,380	386½	46,380	..	1,272	1,272	1,52,640	1,272	1,52,640
Hides and skins	..	..	..	..	..	..	..	10½	10½	15,435	10½	15,435	..	..	..	..	..	..
Liquors	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Metals	..	..	..	..	..	..	4½	..	4½	1,692	3	1,128	..	2	2	752	2	752
Oils	..	..	..	..	..	..	27½	7	34½	25,564½	34½	25,564½	..	15½	15½	11,485	15½	11,485
Oil-seeds	..	..	..	..	..	..	..	28	28	6,720	28	6,720	221	8	229	54,960	229	54,960
Provisions	..	..	..	..	..	..	38½	33½	72	1,20,744	72	1,20,744	..	1,000	1,000	16,77,000	1,000	16,77,000
Salt	..	..	..	..	..	..	647	..	647	45,290	647	4,5290	9,069	..	9,069	6,34,830	9,069	6,34,830
Spices	..	..	..	..	..	..	..	..	..	..	..	..	176	320	496	6,01,152	496	6,01,152
Sugar and jaggery	..	..	..	..	..	..	23	..	23	4,002	23	4,002	..	400	400	89,700	400	89,700
Tobacco	..	..	..	..	..	..	..	219	219	1,23,078	219	1,23,078	730	..	730	4,10,260	730	4,10,260
Building materials	..	..	..	..	..	..	..	..	..	..	..	..	6	220	226	30,143	30,143	
Miscellaneous goods	..	..	..	..	..	..	85½	58½	144	9,660½	144	9,660½	481½	2,922	3,403½	3,43,874	3,403½	3,43,874
Timber	..	..	..	..	..	..	..	199½	199½	32,319	199½	32,319	53	..	53	8,586	53	8,586
Firewood	..	..	..	..	..	..	..	..	..	..	..	..	5,596	..	5,596	78,344	5,596	78,344
Bamboos	..	..	..	..	..	..	..	..	..	..	..	..	..	21	21	840	21	840
Coal and coke	..	..	..	..	..	..	..	..	..	..	..	..	..	23	23	345	23	345
Kerosine oil	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jute	..	..	..	..	..	..	..	21½	21½	10,255½	21½	10,255½	..	..	..	..	..	..
Treasure	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cotton seeds	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Boat Traffic ..	..	..	..	..	..	..	1,465	1,058	2,523	11,22,112	2,521½	11,21,548	16,839½	6,879½	23,719	43,38,972	23,719	43,38,972
Raft Traffic.																		
Timber in logs	..	..	..	..	..	..	..	2,981	2,981	5,60,428	2,981	5,60,428	..	..	..	..	..	..
Squared timber	..	..	..	..	..	..	..	2,030	2,030	4,77,050	2,030	4,77,050	..	..	..	..	..	..
Sleepers, broad gauge ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. metre gauge ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	793	793	1,44,326	793	1,44,326	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	3,072	3,072	3,28,704	3,072	3,28,704	..	..	..	..	..	..
Firewood	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bamboos	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Raft Traffic ..	..	..	..	..	..	..	..	8,876	8,876	15,10,508	8,876	15,10,508	..	..	..	..	..	..
Grand Total ..	..	..	..	..	..	..	1,465	9,934	11,399	26,32,620	11,397½	26,32,056	16,839½	6,879½	23,719	43,38,972	23,719	43,38,972

NOTE.—The figures for the Chilka lake canal are not available.

W. J. J. HOWLEY,
Chief Engineer for Irrigation.

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1918–1919—*cont.*

Description.	Kurnool-Cuddapah canal.						Buckingham Canal.					
	Total, Government and Private.				Private.		Total, Government and Private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Total.	
	14	15	16	17	18	19	20	21	22	23	24	25
Boat Traffic.				RS.		RS.				RS.		RS.
Cotton, raw and manufactured ..	..	..	..	..	..	..	69	4	73	1,21,186	73	1,21,186
Woollen goods do. ..	..	..	..	..	..	..	..	..	..	..	..	..
Dyes and tans	..	..	..	..	..	..	..	..	..	..	..	..
Rice and paddy	60½	..	60½	7,079	60½	7,079	18,401½	894¼	19,295¾	28,03,230	19,295¾	28,03,230
Other food-grains	729	64	793	96,717	793	96,717	512	56½	568½	68,220	568½	68,220
Hides and skins	..	..	..	..	..	..	30	..	30	44,430	30	44,430
Liquors	..	..	..	..	..	..	..	..	..	..	..	..
Metals	10	449	459	1,72,584	..	..	92	60	152	68,400	152	68,400
Oils	..	11	11	18,447	11	18,447	..	91¾	91¾	67,987	91¾	67,987
Oil-seeds	46	5	51	12,240	51	12,240	117	8	125	30,000	125	30,000
Onions	..	..	..	..	..	..	..	..	..	..	..	..
Provisions	..	317	317	5,31,609	317	5,31,609	2,274	1,311	3,585	60,12,045	3,585	60,12,045
Salt	297	408½	705½	49,405	705½	49,405	3,284	8½	3,292½	2,30,475	3,292½	2,30,475
Spices	4	10	14	16,968	14	16,968	..	..	..	..	..	..
Sugar and jaggery	13½	25	38½	6,699	38½	6,699	31	..	31	6,734	31	6,734
Tobacco	..	..	..	..	..	..	1	1	2	4,224	2	4,224
Building materials	97	390	487	7,020	97	6,832	44,188	126	44,314	6,60,085	44,314	6,60,085
Miscellaneous goods	147	304¼	451¼	6,454	451¼	6,454	1,630	206½	1,836½	47,36,880	1,836½	47,36,880
Timber	..	32	32	6,016	32	6,016	11½	325½	336¾	54,553	336¾	54,553
Firewood	715	270	985	13,790	715	10,010	121,838½	9	121,847½	17,10,407	121,847½	17,10,407
Bamboos	..	..	..	..	..	..	..	12	12	480	12	480
Coal and coke	..	..	..	..	..	..	1,328	12	1,340	20,100	1,340	20,100
Casuarina posts	..	..	..	..	..	..	..	..	..	..	..	..
Jute	..	..	..	..	..	..	..	..	..	..	..	..
Indigo seeds	23½	51	74½	4,36,272	74½	4,36,272	..	..	..	..	..	..
Skins	..	..	..	..	..	..	..	..	..	..	..	..
Treasure	..	..	..	..	..	..	..	..	..	..	..	..
Cloth	..	..	..	..	..	..	..	..	..	..	..	..
Kerosene-oil	1¾	10	11¾	8,818	11¾	8,818	..	..	..	..	..	..
Turmeric	..	..	..	..	..	..	..	..	..	..	..	..
Cotton seeds	..	8	8	720	8	720	..	..	..	..	..	..
Other grains	..	..	..	..	..	..	..	..	..	..	..	..
Iron bars	..	..	..	..	..	..	..	..	..	..	..	..
Ground-nuts	300	702	1,002	2,40,480	1,002	2,40,480	..	..	..	..	..	..
Total, Boat Traffic ..	2,444¼	3,056¾	5,501	16,31,318	4,282	14,54,766	193,807¼	3,126	196,933¼	1,66,39,436	196,933¼	1,66,39,436
Raft Traffic.												
Timber in logs	..	..	..	..	..	..	..	..	..	..	..	..
Squared timber	..	..	..	..	..	..	..	..	..	..	..	..
Sleepers, broad gauge	..	..	..	..	..	..	..	..	..	..	..	..
Do. metre gauge	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..	..	..	..	..
Firewood	..	..	..	..	..	..	..	..	..	..	..	..
Bamboos	..	..	..	..	..	..	..	..	..	..	..	..
Total, Raft Traffic ..	..	..	..	..	..	..	..	..	..	..	..	..
Grand Total ..	2,444¼	3,056¾	5,501	16,31,318	4,282	14,54,766	193,807¼	3,126	196,933¼	1,66,39,436	196,933¼	1,66,39,436

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1918–1919—*cont.*

Description.	Chilka lake canal.						Dumagudem canal.						Vedaranniyam canal.					
	Total, Government and Private.				Private.		Total, Government and Private.				Private.		Total, Government and Private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Tons.	
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
Boat Traffic.										RS.		RS.				RS.		RS.
Cotton, raw and manufactured.	..	..	..	..	..	..	15½	..	15½	84,267	15½	84,267	..	14	14	76,520	14	76,520
Woollen goods	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dyes and tans	..	..	..	..	..	..	..	193	193	5,12,994	193	5,12,994	..	..	..	..	..	..
Rice and paddy	..	..	..	..	..	..	524½	..	524½	83,710½	524½	83,710½	507	662	1,169	1,67,541	1,169	1,67,541
Other food-grains	..	..	..	..	..	..	99	287½	386½	46,380	386½	46,380	..	1,272	1,272	1,52,640	1,272	1,52,640
Hides and skins	..	..	..	..	..	..	..	10½	10½	15,435	10½	15,435	..	..	..	..	..	..
Liquors	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Metals	..	..	..	..	..	..	4½	..	4½	1,692	3	1,128	..	2	2	752	2	752
Oils	..	..	..	..	..	..	27¾	7	34¾	25,564½	34½	25,564½	..	15½	15½	11,485	15½	11,485
Oil-seeds	..	..	..	..	..	..	..	28	28	6,720	28	6,720	221	8	229	54,960	229	54,960
Provisions	..	..	..	..	..	..	38½	33½	72	1,20,744	72	1,20,744	..	1,000	1,000	16,77,000	1,000	16,77,000
Salt	..	..	..	..	..	..	647	..	647	45,290	647	4,5290	9,069	..	9,069	6,34,830	9,069	6,34,830
Spices	..	..	..	..	..	..	..	..	..	..	..	..	176	320	496	6,01,152	496	6,01,152
Sugar and jaggery	..	..	..	..	..	..	23	..	23	4,002	23	4,002	..	400	400	89,700	400	89,700
Tobacco	..	..	..	..	..	..	..	219	219	1,23,078	219	1,23,078	730	..	730	4,10,260	730	4,10,260
Building materials	..	..	..	..	..	..	..	..	..	..	..	..	6	220	226	30,143	226	30,143
Miscellaneous goods ..	..	..	..	..	..	..	85½	58½	144	9,660½	144	9,660½	481½	2,922	3,403½	3,43,874	3,403½	3,43,874
Timber	..	..	..	..	..	..	..	199½	199½	32,319	199½	32,319	53	..	53	8,586	53	8,586
Firewood	..	..	..	..	..	..	..	..	..	..	..	..	5,596	..	5,596	78,344	5,596	78,344
Bamboos	..	..	..	..	..	..	..	..	..	..	..	..	..	21	21	840	21	840
Coal and coke	..	..	..	..	..	..	..	..	..	..	..	..	..	23	23	345	23	345
Kerosine oil	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jute	..	..	..	..	..	..	..	21½	21½	10,255½	21½	10,255½	..	..	..	..	..	..
Treasure	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cotton seeds	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Boat Traffic ..	..	..	..	..	..	..	1,465	1,058	2,523	11,22,112	2,521½	11,21,548	16,839½	6,879½	23,719	43,38,972	23,719	43,38,972
Raft Traffic.																		
Timber in logs	..	..	..	..	..	..	..	2,981	2,981	5,60,428	2,981	5,60,428	..	..	..	..	..	..
Squared timber	..	..	..	..	..	..	..	2,030	2,030	4,77,050	2,030	4,77,050	..	..	..	..	..	..
Sleepers, broad gauge ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. metre gauge ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	793	793	1,44,326	793	1,44,326	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	3,072	3,072	3,28,704	3,072	3,28,704	..	..	..	..	..	..
Firewood	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bamboos	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Raft Traffic ..	..	..	..	..	..	..	..	8,876	8,876	15,10,508	8,876	15,10,508	..	..	..	..	..	..
Grand Total ..	..	..	..	..	..	..	1,465	9,934	11,399	26,32,620	11,397½	26,32,056	16,839½	6,879½	23,719	43,38,972	23,719	43,38,972

NOTE.—The figures for the Chilka lake canal are not available.

W. J. J. HOWLEY,
Chief Engineer for Irrigation.

E-I.—Statement of areas irrigated under Major (Productive) Works and Minor Works for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1918–1919.

Name of canal.	Areas charged as irrigated in acres.							Average discharge, cubic feet per second.				Areas irrigated per cubic foot per second.				Cubic feet of water supplied at head for each acre of land irrigated during the year.	
	First crop.		Second crop.		Total.	Both seasons.	Percentage of double cropped area (cols. 4 + 5) on the first crop area (cols. 2 + 3).	At head.		Utilized.		Discharge at head.		Utilized.			
	Flow.	Lift.	Flow.	Lift.				First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CLASS I WORKS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.											
Productive.																	
Nagavalli river system	20,564	291	5,365	16	26,236	118	25·80	..	..	..	..	..	..	..	..	..	..
Gödavari delta system	745,106	14,306	297,982	6,604	1,063,998	12,826	40·11	11,154	7,705	..	..	67	39	..	..	236,689	266,478
Kistna do.	707,799	10,214	5,497	657	724,167	6,406	·86	7,067	..	..	..	100	..	..	..	158,729	..
Divi pumping system	31,148	292	..	3	31,443	..	·01	323	..	323	..	97	..	97	..	185,187	..
Penner river canals system ..	150,370	2,854	38,288	183	191,695	2,113	25·11	..	..	..	..	..	..	..	..	..	..
Kurnool-Cuddapah canal	66,633	2,348	13,472	471	82,924	2,125	20·21	..	..	..	..	..	..	..	..	..	..
Barur tank	2,785	14	774	3	3,576	367	27·76	..	..	..	..	..	..	..	..	..	..
Poiney anicut system	14,252	748	1,940	49	16,989	179	13·26	..	..	..	..	..	..	..	..	..	..
Cheyyar do.	18,778	692	5,315	283	24,978	1,207	31·98	..	..	..	..	..	..	..	..	..	..
Tirukkoyilur anicut system ..	23,020	752	3,970	178	27,926	492	17·47	..	..	..	..	..	..	..	..	..	..
Shatiatope do. ..	29,612	692	5,074	178	35,556	50	17·33	..	..	..	..	..	..	..	..	..	..
Lower Coleroon do. ..	106,001	1,690	5,138	420	113,249	723	5·16	..	..	..	..	..	..	..	..	..	..
Cauvery delta system	809,281	31,904	79,667	5,129	925,081	16,517	10·09	6,312	4,672	6,312	4,672	128	17	128	17	103,103	608,022
Periyar system	127,455	1,081	44,235	335	173,106	1,793	34·68	..	..	..	..	..	..	..	..	..	..
Srivaikuntam anicut system ..	24,084	830	11,730	416	37,060	1,037	43·75	..	..	..	..	..	..	..	..	..	..
Protective.																	
Rushikulya system	104,555	1,294	1,431	565	107,845	329	1·89	..	..	..	..	..	..	..	..	..	..
Bhavanasi tank	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
CLASS II WORKS.																	
Ganjam minor rivers system ..	61,359	1,987	4,946	1,723	70,015	247	10·53	..	..	..	..	..	..	..	..	..	..
Muniyeru project	6,346	62	17	2	6,427	..	·30	..	..	..	..	..	..	..	..	..	..
Peddanaidu tank of Chinnarowpalem	40	1	..	..	41	..	..	..	..	..	..	..	..	..	..	..	..
Jangamaheswarapuram tank ..	782	2	17	1	802	..	2·25	..	..	..	..	..	..	..	..	..	..
Atmakur tank	755	2	160	2	929	..	24·04	..	..	..	..	..	..	..	..	..	..
Sondapad tank	186	..	..	..	186	..	..	..	..	..	..	..	..	..	..	..	..

E-I.—Statement of areas irrigated under Major (Productive) Works and Minor Works for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1918–1919—*cont.*

Name of canal.	Areas charged as irrigated in acres including waste charged.							Average discharge, cubic feet per second.				Areas irrigated per cubic foot per second.				Cubic feet of water supplied at head for each acre of land irrigated during the year.	
	First crop.		Second crop.		Total.	Both seasons.	Percentage of double cropped area (cols. 4+5) on the first crop area (cols. 2+3).	At head.		Utilized.		Discharge at head.		Utilized.			
	Flow.	Lift.	Flow.	Lift.				First crop.	Second crop	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CLASS II WORKS—*cont.*	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.											
Hajipuram tank	639	..	27	..	666	109	4·23	..	..	..	..	..	..	..	..	..	..
Ponnalur tank	821	..	103	..	924	..	12·55	..	..	..	..	..	..	..	..	..	..
Anamasamudram tank	991	7	2	..	1,000	1	·20	..	..	..	..	..	..	..	..	..	..
Yerur tank	1,338	8	..	..	1,346	..	..	..	..	..	..	..	..	..	..	..	..
Sagileru system	3,770	52	308	7	4,137	143	8·24	..	..	..	..	..	..	..	..	..	..
Cumbum tank	5,474	147	2,851	50	8,522	858	51·61	..	..	..	..	..	..	..	..	..	..
Markapur tank	1,377	15	751	1	2,144	1	54·02	..	..	..	..	..	..	..	..	..	..
Arkenkota channel	4,548	87	473	33	5,141	42	10·92	..	..	..	..	..	..	..	..	..	..
Thadapalli do.	14,425	440	1,522	165	16,552	864	11·35	..	..	..	..	..	..	..	..	..	..
Kalingarayan do.	9,703	2,239	6,475	1,388	19,805	2,514	65·84	..	..	..	..	..	..	..	..	..	..
Palar anicut system	65,398	1,556	15,486	410	82,850	878	23·74	..	..	..	..	..	..	..	..	..	..
Vallur do.	4,600	578	120	59	5,357	77	3·46	..	..	..	..	..	..	..	..	..	..
Madras water-supply and irrigation system.	7,076	439	3,414	311	11,240	624	49·57	..	..	..	..	..	..	..	..	..	..
Chembrambakam tank	12,992	248	6,819	54	20,113	622	51·91	..	..	..	..	..	..	..	..	..	..
Mehamattur anicut system	4,105	47	323	8	4,483	315	7·97	..	..	..	..	..	..	..	..	..	..
Vriddhachalam do.	7,974	61	331	6	8,372	51	4·19	..	..	..	..	..	..	..	..	..	..
Pelandorai do.	11,380	148	300	13	11,841	165	2·72	..	..	..	..	..	..	..	..	..	..
Nandyar channel system	5,575	741	1,859	257	8,432	373	33·50	..	..	..	..	..	..	..	..	..	..
Marudur anicut system	17,201	221	13,939	86	31,447	705	80·50	..	..	..	..	..	..	..	..	..	..

	First crop.	Second crop
Gödavari delta	1st June to 30th Nov.	1st Jan. to 30th April
Kistna delta and Divi Pumping system ..	Do.	Do.
Penner river canals	1st July to 31st Dec.	1st Jan. to 31st March.
Kurnool-Cuddapah canal	1st June to 30th Nov.	1st Dec. to 31st March.

	First crop.	Second crop.
Cauvery delta	1st June to 31st Oct.	1st Nov. to 28th Feb.
Srivaikuntam anicut	Do.	1st Nov. to 31st March.
Periyar system	1st Oct. to 15th March.	1st June to 31st Sep.

The above information regarding the periods is only very roughly approximate, for there is not any well-marked division between the first and second crops which in many places actually overlap, some of the so-called second crop being planted, while some of the so-called first crop is still on the ground and taking water.

In the case of the Gödavari and Kistna deltas the period of irrigation of first crop has been taken to be 183 days though it varied in each delta as below during the year :—

Gödavari delta, Eastern Section	3rd June to 30th November.
Do. Central ,, ...	14th May to 30th November.
Do. Western ,, ...	1st June to 30th November.
Kistna delta, Eastern Section	1st June to 31st December.
Do. Western ,, ...	1st July to 31st December.

The areas entered in column 7 both seasons are for lands bearing such crops as betel and sugarcane which require irrigation for the greater part of the year. This is included in the areas of first and second crops.

E-II.—Statement showing incidence of working expenses and assessed water revenue on irrigation systems for which capital and revenue accounts are kept in the Madras Presidency during 1918–19.

Name of canal.	Average discharge of the year at canal head in cubic feet per second.	Water-rate assessed, 1918–19.					Gross assessed revenue from all sources.	Working expenses, direct and indirect.	Area charged as irrigated during the year 1918–19, first and second crops.	Working expenses.			Occupiers' rate.		Total water-rate, direct and indirect.	
		Occupiers.	Owners.	Total, direct.	Indirect.	Total of direct and indirect.				Per cent on gross revenue.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				RS.	RS.	RS.	RS.	RS.	ACS.							RS.
CLASS I WORKS. *Productive.*																
Nagavalli river system	1,145	..	..	91,866	5,845	97,711	98,663	44,495	26,236	45·10	1·70	386	..	..	3·72	853
Gōdāvari delta system	9,429	..	..	42,57,734	1,92,045	44,49,769	46,05,519	3,67,417	1,063,998	18·83	0·82	92	..	..	4·18	472
Kistna do.	..	..	..	34,00,101	1,34,851	35,34,952	36,53,148	7,08,770	724,167	19·40	0·98	..	..	..	4·88	..
Divi pumping system	..	..	..	1,54,222	23,621	1,77,843	1,79,164	1,32,314	31,443	73·85	4·21	..	..	..	5·66	..
Pennār river canals system ..	..	..	..	8,25,107	59,660	8,84,767	8,87,315	1,08,976	,191,695	12·28	0·57	..	..	..	4·62	..
Kurnool-Cuddapah canal ..	..	..	..	3,22,680	1,833	3,24,513	3,37,335	2,46,427	82,924	73·04	2·97	..	..	..	3·91	..
Barur tank	..	..	..	9,569	471	10,040	11,728	7,590	3,576	64·72	2·12	..	..	..	2·81	..
Poiney anicut system	..	..	..	21,819	5,451	27,270	27,900	19,129	16,989	68·56	1·18	..	..	..	1·61	..
Cheyyar do.	..	..	..	81,087	3,314	84,401	86,303	58,188	24,978	67·42	2·33	..	..	..	3·38	..
Tirukkōyilūr anicut system ..	..	..	..	96,123	3,362	99,485	1,00,585	33,487	27,926	33·29	1·20	..	..	..	3·56	..
Bhatiatope do. ..	..	..	..	1,26,340	15,209	1,41,549	1,42,287	32,958	35,556	23·16	0·93	..	..	..	3·98	..
Lower Coleroon do. ..	..	..	..	3,93,698	51,510	4,45,208	4,50,064	1,23,436	113,249	27·43	1·09	..	..	..	3·93	..
Cauvery delta system	4,310	..	..	39,10,157	1,18,072	40,28,229	40,39,362	3,28,951	925,081	8·14	0·36	76	..	..	4·35	934
Periyar system	..	..	..	8,90,304	48,002	9,38,306	9,55,802	1,85,247	173,106	19·38	1·07	..	..	..	5·42	..
Srivaikuntam anicut system ..	..	..	..	2,20,328	1,490	2,21,818	2,26,764	34,076	37,060	15·03	0·92	..	..	..	5·99	..
Protective.																
Rushikulya system	..	..	..	2,37,839	4,510	2,42,349	2,43,731	74,210	107,845	30·45	0·69	..	..	..	2·25	..
Bhavanasi tank	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
CLASS II WORKS.																
Ganjām minor rivers system ..	..	..	..	1,38,869	7,324	1,44,193	1,46,302	26,316	70,015	17·99	0·38	..	..	..	2·09	..
Muniyeru project	..	..	..	23,838	60	23,898	24,349	10,826	6,427	44·46	1·68	..	..	..	3·72	..
Peddamaidu tank	..	..	..	169	..	163	1,027	119	41	11·59	2·90	..	..	..	3·98	..
Jangamaheswarapuram tank ..	..	..	..	1,907	..	1,907	1,907	321	802	16·83	0·40	..	..	..	2·37	..
Atmakur tank	..	..	..	3,412	..	3,412	3,412	283	939	8·29	0·30	..	..	..	3·63	..

E-II.—Statement showing incidence of working expenses and assessed water revenue on irrigation systems for which capital and revenue accounts are kept in the Madras Presidency during 1918–1919—*cont.*

Name of canal.	Average discharge of the year at canal head in cubic feet per second.	Water-rate assessed, 1918–19.					Gross assessed revenue from all sources.	Working expenses, direct and indirect.	Area charged as irrigated during the year 1918–19, first and second crops.	Working expenses.			Occupiers' rate.		Total water-rate, direct and indirect.	
		Occupiers.	Owners.	Total, direct.	Indirect.	Total of direct and indirect.				Per cent on gross revenue.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.	Per acre irrigated.	Per cubic foot per second of discharge at canal head.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				RS.	RS.	RS.	RS.	RS.	ACS.							RS.
CLASS II WORKS—*cont.*																
Dondapad tank	..	..	..	722	3	725	725	2,979	186	410·90	16·02	..	..	..	3·90	..
Hajipuram tank	..	..	..	3,129	15	3,144	3,218	157	666	4·88	0·24	..	..	..	4·72	..
Ponnalur tank	..	..	..	4,244	..	4,244	4,244	4,479	924	105·54	4·85	..	..	..	4·59	..
Anamasamudram-Berapur tank ..	..	..	..	3,937	1	3,938	3,938	17	1,000	0·43	0·02	..	..	..	3·94	..
Yerur tank	..	..	..	3,541	64	3,605	3,605	4,376	1,346	121·39	3·25	..	..	..	2·68	..
Sagileru system	..	..	..	7,760	4	7,704	7,755	1,775	4,137	22·89	0·43	..	..	..	1·86	..
Cumbum tank	..	..	..	48,179	461	48,640	48,640	12,461	8,522	25·61	1·46	..	..	..	5·71	..
Marakapur tank	..	..	..	8,187	1	8,188	8,268	6,070	2,144	73·42	2·83	..	..	..	3·82	..
Arkenkota channel	188	..	..	38,216	410	38,626	38,780	6,127	5,141	15·80	1·19	33	..	..	7·51	205
Thadapalli do.	411	..	..	1,38,382	2,900	1,41,282	1,42,603	18,067	16,552	12·67	1·09	44	..	..	8·54	344
Kalingarayan do.	658	..	..	1,21,914	483	1,22,397	1,24,619	24,627	19,805	19·76	1·24	37	..	..	6·18	186
Palar anicut system	..	..	..	1,83,922	16,733	2,00,655	2,02,680	79,765	82,850	39·36	0·96	..	..	..	2·42	..
Vallur do.	..	..	..	7,247	1,074	8,321	8,876	1,803	5,357	20·31	0·84	..	..	..	1·55	..
Madras water-supply and irrigation system.	..	..	..	28,058	462	28,520	61,791	17,939	11,240	29·03	1·60	..	..	..	2·54	..
Chembrambakam tank	..	..	..	66,151	908	67,059	67,434	15,185	20,118	22·52	0·75	..	..	..	3·33	..
Mehamattur anicut system	..	..	..	19,361	51	19,412	19,539	3,833	4,483	19·62	0·86	..	..	..	4·33	..
Vriddhachalam do.	..	..	..	32,305	294	32,599	32,919	5,878	8,372	17·86	0·70	..	..	..	3·89	..
Pelandorai do.	..	..	..	44,308	76	44,384	45,193	22,538	11,841	49·87	1·06	..	..	..	3·75	..
Nandiyar channel system	217	..	..	22,216	54	22,270	23,177	3,216	8,432	13·88	0·38	15	..	..	2·64	106
Marudur anicut system	..	..	..	2,06,542	270	2,06,812	2,08,891	10,841	31,447	5·19	0·34	..	..	..	6·58	..

E-III.—Statement showing the area actually irrigated by flow and lift under classes I and II works and the value of crops raised thereon for fasli 1328 (1918–19).

Districts.	Names of systems.	Area actually irrigated.						Value of crops.							
		First crop.		Second crop.		Total	Both seasons.	Paddy.		Ragi.		Other crops.		Total.	
		Flow.	Lift.	Flow.	Lift.			Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Class I Works.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.	ACS.	RS.	ACS.	RS.	ACS.	RS.
1. Vizagapatam ..	Nagavali river project ..	20,149	291	5,365	16	25,821	113	21,660	15,32,500	398	18,473	3,763	1,15,409	25,821	16,66,382
2. Godavari ..	Godavari delta system ..	340,323	5,806	110,888	2,960	459,977	3,478	412,270	4,85,29,442	2,020	1,25,094	45,478	36,61,271	459,768	5,23,15,807
Kistna ..	Do. .	378,961	8,500	186,576	3,644	577,681	4,348	537,150	4,03,29,498	1,012	63,206	39,389	14,20,076	577,551	4,18,12,780
	Total ..	719,284	14,306	297,464	6,604	1,037,658	12,826	949,420	8,88,58,940	3,032	1,88,300	84,867	50,81,347	1,037,319	9,41,28,587
3. Kistna ..	Kistna delta system ..	390,711	6,253	4,279	566	401,909	3,432	392,693	3,36,50,317	3,018	2,49,790	4,596	1,40,185	400,307	3,40,40,292
Guntur ..	Do. ..	297,169	3,861	1,168	91	302,289	2,972	296,085	2,79,48,343	1,260	79,595	4,879	6,93,206	302,224	2,87,21,144
	Total .	687,880	10,214	5,447	657	704,198	6,406	688,778	6,15,98,660	4,278	3,29,385	9,475	8,33,391	702,531	6,27,61,436
4. Kistna ..	Divi pumping system ..	31,148	292	..	3	31,443	..	31,248	25,95,901	98	4,539	97	3,091	31,443	26,03,531
5. Nellore ..	Pennér river canals system.	142,170	2,854	38,288	183	183,495	2,113	176,646	1,32,85,864	1,848	1,58,141	4,664	1,90,118	183,158	1,36,33,623
6. Kurnool ..	Kurnool-Cuddapah canal.	35,357	836	7,964	417	44,574	741	21,998	20,59,064	175	13,857	22,395	4,73,585	44,568	25,46,506
Cuddapah ..	Do. ..	24,439	1,510	5,208	54	31,211	1,369	15,400	18,91,129	5,397	5,18,842	10,414	3,88,861	31,211	27,98,832
	Total ..	59,796	2,346	13,172	471	75,785	2,110	37,398	39,50,193	5,572	5,32,699	32,809	8,62,446	75,779	53,45,338
7. Cuddapah ..	Chepad channel ..	5,586	2	300	..	5,888	15	4,614	6,01,176	809	77,005	465	14,885	5,888	6,93,066
	Total of Kurnool-Cuddapah canal and Chepad channel.	65,382	2,348	13,472	471	81,673	2,125	42,012	45,51,369	6,381	6,09,704	33,274	8,77,331	81,667	60,38,404
8. Salem . ..	Bartur tank	2,142	14	774	3	2,933	307	1,662	90,704	484	26,147	787	11,005	2,933	1,27,856
9. North Arcot ..	Poiney anicut system ..	11,070	735	1,820	18	13,673	161	8,715	6,22,675	2,799	2,36,942	1,450	12,357	12,964	8,71,974
Chittoor ..	Do. ..	742	13	120	1	876	17	342	33,281	302	32,253	231	7,556	875	73,040
	Total ..	11,812	748	1,940	19	14,549	179	9,057	6,55,906	3,101	2,69,195	1,681	19,913	13,839	9,45,014
10. Chingleput ..	Cheyyar anicut system ..	403	1	105	..	509	..	448	42,493	44	1,721	17	108	509	44,322
North Arcot ..	Do. ..	17,022	601	5,210	283	23,116	1,207	19,048	17,62,636	2,542	2,12,889	1,308	11,554	22,888	19,88,079
	Total ..	17,425	602	5,315	283	23,625	1,207	19,491	18,05,129	2,586	2,15,610	1,320	11,662	23,397	20,32,401
11. South Arcot ..	Tirukkóyilur anicut system.	21,030	752	3,954	178	25,914	1,492	20,857	17,02,818	2,998	2,09,158	1,964	54,956	25,819	19,66,927
12. South Arcot .	Shatiatope anicut system.	27,001	692	5,074	178	32,945	56	28,843	25,28,155	1,881	1,67,200	964	17,849	31,688	27,13,204
13. South Arcot ..	Lower Coleroon anicut system.	80,775	873	4,519	193	86,360	479	84,221	77,09,648	324	76,620	1,315	16,770	86,360	78,03,038
Tanjore ..	Do. ..	20,834	817	614	227	22,492	244	21,299	16,41,826	289	15,513	882	8,397	22,470	16,65,736
	Total ..	101,609	1,690	5,133	420	108,852	723	105,520	93,51,474	1,113	92,133	2,197	25,167	108,830	94,68,774
14. Trichinopoly ..	Cauvery delta system ..	42,898	2,185	17,090	1,594	63,767	2,355	57,425	71,77,686	1,303	1,22,071	5,039	4,87,234	63,767	77,86,991
Tanjore ..	Do. ..	680,814	28,819	61,412	3,535	774,580	14,162	731,392	5,36,63,261	7,946	4,17,879	31,753	5,06,226	771,091	5,45,87,366
	Total ..	723,712	31,004	78,502	5,129	838,347	16,517	788,817	6,08,40,947	9,249	5,39,950	36,792	9,93,460	834,858	6,23,74,357
15. Madura ..	Periyar system	123,190	1,081	44,235	335	168,841	1,796	160,356	1,92,78,648	4,354	3,26,079	4,080	2,01,974	168,800	1,98,06,701
16. Tinnevelly ..	Sriwaikuntam anicut system.	22,288	830	11,566	416	35,100	1,082	31,892	32,90,627	226	16,291	1,689	47,727	33,817	33,54,645
17. Ganjam .	Rushikulya system ..	102,304	1,294	1,431	565	105,594	320	103,431	67,20,498	1,071	35,193	1,062	91,590	105,594	68,47,281
	Total class I Works ..	2,318,526	69,012	517,960	15,490	3,420,988	48,977	3,179,780	27,86,87,640	43,108	32,05,493	188,676	85,75,990	3,411,514	29,04,69,123
	Class II Works.														
1. Ganjam ..	Ganjam minor rivers system.	60,408	1,987	4,945	1,723	69,063	247	62,171	40,05,321	3,833	1,90,510	3,059	27,796	69,063	42,33,627
2. Kistna ..	Muniyeru project ..	6,332	63	17	2	6,414	..	6,217	5,14,275	16	1,248	63	3,645	6,396	5,19,168
3. Do. ..	Peddanayudu tank of Chinnarowpalem.	40	1	..	..	41	..	29	1,573	..	..	1	20	30	1,593
4. Guntur ..	Jangamaheswarapuram tank.	392	2	17	1	412	..	384	34,594	..	..	28	850	412	35,444
5. Do. ..	Atmakur tank	323	2	180	2	507	..	439	41,423	10	930	58	1,382	507	43,735
6. Do. ..	Dondapad tank	186	..	..	..	186	..	182	13,045	3	372	1	14	186	13,431
7. Nellore ..	Jagipuram tank	568	..	27	..	595	100	373	30,713	37	3,631	185	12,450	595	46,794
8. Do. ..	Poonalur tank	762	..	103	..	865	..	295	17,265	216	17,127	254	8,000	865	42,392
9. Do. ..	Anamasamudram Birapeth tank.	926	7	2	..	935	1	875	67,615	54	4,453	6	676	935	72,744
10. Do. ..	Erur tank	1,058	8	..	..	1,066	..	1,062	80,425	4	320	..	..	1,066	80,745
11. Cuddapah ..	Segileru system	3,535	52	308	7	3,902	142	1,529	98,535	1,343	1,10,459	790	34,355	3,662	2,33,349
12. Kurnool ..	Cumbum tank	5,396	147	2,851	50	8,444	858	5,127	4,92,769	602	54,411	1,715	16,990	8,444	5,64,170
13. Do. ..	Markapur tank	1,32	15	751	1	2,096	1	1,598	1,64,017	399	35,009	99	2,541	2,096	2,01,567

E. III.—Statement showing the area actually irrigated by flow and lift under classes I and II works and the value of crops raised thereon for fasli 1328 (1918–19)—*cont.*

Districts.	Names of systems.	Area actually irrigated.						Value of crops.							
		First crop.		Second crop.		Total.	Both seasons.	Paddy.		Ragi.		Other crops.		Total.	
		Flow.	Lift.	Flow.	Lift.			Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Class II works—cont.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.	ACS.	RS.	ACS.	RS.	ACS.	RS.
14. Coimbatore ..	Arakankottai channel ..	4,529	87	473	33	5,122	42	4,994	7,69,444	28	3,212	100	11,849	5,122	7,84,505
15. Do. ..	Tadapalli channel ..	14,363	440	1,522	165	16,490	864	13,873	20,27,446	119	11,563	2,498	3,09,893	16,490	23,48,902
16. Do. ..	Kalingarayan channel ..	9,604	2,239	6,475	1,388	19,706	2,514	13,925	20,93,653	1,615	1,94,869	4,166	4,17,327	19,706	27,05,849
17. North Arcot ..	Palar anicut system ..	38,311	1,203	10,806	312	50,632	851	39,937	30,70,518	5,399	4,05,196	2,764	50,716	48,100	35,26,430
Chingleput ..	Do. ..	17,826	353	3,909	98	22,186	27	19,366	16,08,565	2,322	1,26,473	355	1,094	22,043	17,36,182
	Total ..	56,137	1,556	14,715	410	72,818	878	59,303	46,79,083	7,721	5,31,669	3,119	51,810	70,143	52,62,562
18. Chingleput ..	Vallur anicut system ..	3,593	578	119	59	4,349	77	3,858	3,78,429	226	17,616	265	26,027	4,349	4,22,072
19. Do. ..	Madras water-supply and irrigation system.	6,891	439	3,402	311	10,543	624	9,325	8,83,219	404	30,402	814	72,440	10,543	9,86,061
20. Do. ..	Chembrambakkam tank.	12,404	248	6,808	54	19,514	622	18,225	16,81,759	441	26,708	848	27,359	19,514	17,35,826
21. South Arcot ..	Mehmattur anicut system.	4,089	47	323	8	4,417	315	4,104	4,06,463	115	10,571	198	30,230	4,417	4,47,264
22. Do. ..	Vriddhachalam anicut system.	7,827	61	331	6	8,225	51	7,862	6,75,108	177	10,450	186	3,565	8,225	6,89,123
23. Do. ..	Pelandorai anicut system.	11,168	148	300	13	11,629	165	10,888	10,51,987	207	18,811	534	11,754	11,629	10,82,552
24. Trichinopoly.	Nandyar channel system.	5,457	741	1,858	257	8,313	373	6,532	7,06,081	543	30,419	1,238	40,600	8,313	7,77,050
25. Tinnevelly ..	Marudur anicut system.	16,729	221	13,939	86	30,975	705	26,869	26,87,909	191	18,293	2,082	79,247	29,142	27,80,449
	Total class II works ..	233,496	9,089	59,466	4,576	306,627	4,599	261,139	2,85,97,101	16,304	13,18,053	22,407	12,00,820	301,850	2,61,15,974
	Grand total of classes I and II works.	3,052,022	78,101	577,426	20,066	3,727,615	54,966	3,440,869	30,22,84,741	61,412	45,23,546	211,083	97,76,810	3,713,364	31,65,85,097

NOTE.—(1) The area under "both seasons" is included under first and second crops.
(2) The areas in columns (3) to (7) include extent under "withered crops" and exclude "waste charged."
(3) Area of withered crops = 14,251 acres.

Prepared by the Board of Revenue—vide B.P. No. 191, dated 13th November 1919.

E-IV.—Comparative statement of irrigation and rainfall in the Madras Presidency for the revenue year ending 30th June 1919.

Civil districts.	Of the civil districts.			Works supplying irrigation.		Culturable area commanded by the irrigation works in column (6) in acres.	Area at present estimated as annually irrigable by the works as specified in column (6) in acres.	Area irrigated in acres.						Rainfall in inches.	
								Revenue year ending 30th June 1918.			Revenue year ending 30th June 1919.				
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.			Kharif, I Crop.	Rabi, II Crop.	Total.	Kharif, I Crop.	Rabi, II Crop.	Total.	1917–18.	1918–19.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Ganjām ..	5,365,587	2,813,169	1,982,301	1	Rushikulya system ..	142,000	106,000	103,498	1,761	105,207	103,598	1,996	105,594	57·38	45·12
				2	Ganjām minor rivers system.	64,000	59,000	61,508	12,231	73,739	62,395	6,668	69,063		
				3	Class III works	121,881	121,881	119,194	11,315	130,509	117,321	8,183	125,504		
					Total ..	327,881	286,881	284,159	25,297	309,455	283,314	16,847	300,161		
Vizagapatam..	10,999,238	5,265,249	2,615,692	1	Nāgavalli river project ..	31,200	25,000	19,866	6,239	26,105	20,440	5,381	25,821	52·04	40·55
				2	Class III works	92,621	92,621	90,503	33,173	123,676	67,544	14,005	81,549		
					Total ..	123,821	117,621	110,369	39,412	149,781	87,984	19,386	107,370		
Gōdāvari ..	3,980,698	1,565,555	1,138,891	1	Gōdāvari delta system ..	396,253	328,429	340,446	110,783	451,229	346,129	113,848	459,977	61·64	31·09
				2	Class III works	80,293	80,293	81,197	9,669	90,796	56,708	2,827	59,535		
					Total ..	476,546	408,722	421,643	120,452	542,025	402,837	116,675	519,512		
Kistna ..	3,421,662	2,721,487	2,082,144	1	Kistna delta system ..	543,000	429,953	405,900	4,263	410,163	397,064	4,845	401,909	57·31	29·59
				2	Gōdāvari delta system ..	565,000	417,500	386,765	161,936	548,701	387,461	190,220	577,681		
				3	Muniyēru project ..	13,024	10,060	6,252	19	6,271	6,395	19	6,414		
				4	Divi pumping system ..	80,000	40,000	32,111	..	32,111	31,440	3	31,443		
				5	Peddanayadu tank of Chinnarowpalem.	726	210	129	..	129	41	..	41		
				6	Class III works	52,355	52,355	29,042	4,147	63,169	37,868	923	38,791		
					Total ..	1,254,105	949,118	860,179	170,365	1,060,544	860,269	195,010	1,056,279		
Guntur ..	3,648,781	2,736,762	2,313,677	1	Kistna delta system ..	357,000	305,000	302,430	1,308	303,733	301,030	1,259	302,289	46·96	29·34
				2	Dondapad tank	2,880	1,920	403	96	499	186	..	186		
				3	Atmakūr tank	1,160	1,160	589	1	590	325	182	507		
				4	Jangamaheswarapuram tank.	960	960	680	67	747	394	18	412		
				5	Class III works	24,803	24,803	23,101	3,711	26,812	19,576	979	20,555		
					Total ..	386,803	333,853	327,203	5,178	332,381	321,511	2,438	323,949		
Kurnool* ..	4,806,700	2,866,349	1,956,567	1	Kurnool-Cuddapah canal.	319,869	103,748	27,311	6,522	33,833	36,193	8,381	44,574	29·94	20·91
				2	Cumbum tank	6,000	5,980	5,697	4,723	10,250	5,543	2,901	8,444		
				3	Markapur tank	1,700	1,582	1,097	610	1,707	1,344	752	2,096		
				4	Class III works	45,609	45,609	43,294	10,407	53,701	38,819	5,275	44,094		
					Total ..	373,178	156,918	77,229	22,262	99,491	81,899	17,309	99,208		
Bellary* ..	3,649,513	2,942,841	2,198,621	..	Class III works	54,860	54,860	46,556	13,420	59,976	42,695	9,105	52,800	32·76	17·79
Anantapur ..	4,281,840	3,309,087	1,487,418	..	Class III works	154,594	154,594	148,591	78,043	226,634	107,277	32,690	139,967	29·87	19·54
Cuddapah ..	3,724,695	2,000,415	1,040,585	1	Kurnool-Cuddapah canal.	37,601	17,655	29,666	5,524	35,190	31,537	5,562	37,099	38·19	21·46
				2	Sagileru system	26,576	4,664	4,274	2,994	7,268	3,587	315	3,902		
				3	Class III works	100,698	100,698	98,914	42,611	141,525	86,363	26,766	113,129		
					Total ..	164,875	123,017	132,854	51,129	183,983	121,487	32,643	154,130		
Nellore ..	5,103,053	2,885,089	1,371,495	1	Penner river canals system.	190,000	147,274	145,950	40,546	186,496	145,024	38,471	183,495	55·67	43·19
				2	Ponnalūr tank	1,973	1,000	759	376	1,136	762	103	865		
				3	Hajipuram tank ..	2,900	700	614	487	1,101	568	27	595		
				4	Anamasamudram-Birapēru tank.	1,000	961	952	438	1,390	933	2	935		
				5	Yerur tank	1,286	1,143	1,108	1	1,109	1,066	..	1,066		
				6	Class III works	133,040	133,040	126,052	35,390	161,442	126,245	24,756	151,001		
					Total ..	330,149	284,118	275,436	77,238	352,674	274,598	63,359	337,957		
Chingleput ..	1,896,892	1,159,357	849,136	1	Palar anicut system ..	24,102	24,102	22,202	8,827	31,029	18,179	4,007	22,186	55·89	46·21
				2	Chembrambakkam tank ..	24,478	12,000	12,700	8,331	21,031	12,652	6,862	19,514		
				3	Madras water-supply and irrigation system.	10,165	9,852	6,957	3,603	10,560	6,830	3,713	10,543		
				4	Vallar anicut system ..	6,794	5,216	4,602	249	4,852	4,171	178	4,349		
				5	Cheyyar anicut system ..	540	494	392	93	485	404	105	509		
				6	Class III works	358,359	358,359	326,948	113,836	440,784	318,766	94,776	413,542		
					Total ..	424,438	410,023	373,802	134,939	508,741	361,002	109,641	470,643		

* Excluding Feudatory States.

E-IV.—Comparative statement of irrigation and rainfall in the Madras Presidency for the revenue year ending 30th June 1919—*cont.*

Civil districts.	Of the civil districts.			Works supplying irrigation.		Culturable area commanded by the irrigation works in column (6) in acres.	Area at present estimated as annually irrigable by the works as specified in column (6) in acres.	Area irrigated in acres.						Rainfall in inches.	
								Revenue year ending 30th June 1918.			Revenue year ending 30th June 1919.				
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.			Kharif, I Crop.	Rabi, II Crop.	Total.	Kharif, I Crop.	Rabi, II Crop.	Total.	1917-18.	1918-19.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
South Arcot ..	2,684,495	1,792,019	1,427,083	1	Pelandorai anicut system.	16,677	12,837	11,796	390	12,186	11,316	313	11,629	37·79	41·70
				2	Lower Coleroon anicut system.	86,000	84,244	84,891	4,326	89,217	81,648	4,712	86,360		
				3	Shatiatope anicut system.	48,965	34,025	30,109	5,337	35,446	27,693	5,252	32,945		
				4	Vriddhachalam anicut system.	16,359	8,839	8,170	309	8,479	7,888	337	8,225		
				5	Mehmattur anicut system	10,651	4,555	4,389	158	4,547	4,086	331	4,417		
				6	Tirukkoyilur anicut system.	45,977	30,954	25,973	5,163	31,136	21,782	4,132	25,914		
				7	Class III works	271,823	271,823	257,286	63,568	320,854	242,992	52,397	295,389		
					Total ..	491,452	447,267	422,614	79,251	501,865	397,405	67,474	464,879		
North Arcot ..	3,170,934	1,625,872	1,204,848	1	Palar anicut system ..	80,980	54,566	53,683	26,596	80,289	39,514	11,118	50,632	37·71	28·25
				2	Cheyyar do.	28,921	21,969	19,191	11,387	30,578	17,623	5,493	23,116		
				3	Poiney do.	23,824	22,462	20,601	6,449	27,050	11,805	1,868	13,673		
				4	Class III works	204,545	204,545	203,419	75,924	279,343	152,217	38,979	191,196		
					Total ..	388,220	303,542	296,904	120,356	417,260	221,159	57,458	278,617		
Chittoor ..	3,590,275	1,681,522	662,214	1	Poiney anicut system ..	110,268	110,268	1,492	614	2,106	755	121	876	41·26	28·70
				2	Class III works			88,694	36,650	125,344	66,415	20,124	86,539		
					Total ..	110,268	110,268	90,186	37,264	127,450	67,170	20,245	87,415		
Salem ..	4,428,953	2,586,184	1,754,546	1	Barur tank	6,887	6,887	3,526	1,584	5,110	2,156	777	2,933	35·97	21·59
				2	Class III works	100,528	100,528	100,958	31,909	132,867	75,305	23,688	98,993		
					Total ..	107,415	107,415	104,484	33,493	137,977	77,461	24,465	101,926		
Coimbatore ..	4,627,999	2,835,498	2,216,748	1	Tadapalli channel ..	16,000	15,940	14,756	1,756	16,512	14,803	1,687	16,490	30·92	25·82
				2	Arakankottai channel ..	6,000	4,769	4,679	529	5,208	4,616	506	5,122		
				3	Kalingarayan channel ..	15,000	12,000	11,852	8,460	20,312	11,848	7,863	19,706		
				4	Class III works	65,833	65,293	63,256	17,640	80,896	62,073	15,772	77,845		
					Total ..	102,833	97,962	94,543	28,385	122,928	93,335	25,828	119,163		
Trichinopoly.*	2,767,685	2,159,866	1,460,057	1	Cauvery delta system ..	44,667	44,098	45,153	17,365	62,518	45,083	18,684	63,767	39·12	29·46
				2	Nandyar channel system.	9,480	6,820	6,038	1,759	7,797	6,198	2,115	8,313		
				3	Class III works	147,855	147,855	141,462	56,047	197,509	134,286	40,267	174,553		
					Total ..	202,002	198,437	192,653	75,171	267,824	185,567	61,066	246,633		
Tanjore ..	2,389,403	1,719,034	1,302,464	1	Cauvery delta system ..	864,367	856,916	820,145	68,710	888,855	709,633	64,947	774,580	45·07	46·53
				2	Lower Coleroon anicut system.	21,283	18,585	23,534	683	24,217	21,651	841	22,492		
				3	Class III works	75,994	75,994	69,205	8,796	78,001	61,997	2,659	64,656		
					Total ..	971,594	966,597	912,884	78,189	991,073	793,281	68,447	861,728		
Madura ..	3,161,335	2,126,988	1,509,720	1	Periyar system	Not known.	143,000	125,692	44,735	170,427	124,271	44,570	168,841	37·53	27·80
				2	Class III works	126,595	126,595	116,573	36,681	153,254	108,282	29,439	137,721		
					Total ..	126,595	269,595	242,565	81,116	323,681	232,553	74,009	306,562		
Ramnad ..	2,237,972	1,869,348	1,521,428	..	Class III works	34,919	34,919	33,149	10,101	43,250	33,448	8,357	41,805	32·48	27·57
Tinnevelly ..	2,765,715	1,974,608	1,498,153	1	Srivaikuntam anicut system.	33,500	23,014	22,862	18,311	41,173	23,118	11,982	35,100	28·33	29·26
				2	Marudur anicut system ..	17,920	17,920	16,863	13,888	30,751	16,950	14,025	30,975		
				3	Class III works	166,346	166,346	152,110	87,824	239,934	157,028	93,020	250,048		
					Total ..	217,766	207,280	191,835	120,023	311,858	197,096	119,027	316,123		
Grand total ..	32,698,525	50,636,299	33,593,777	..	Total of classes I and II works.	4,250,495	3,494,853	3,280,053	620,522	3,900,575	3,130,123	597,492	3,727,615	42·09	30·74
				..	Total of class III works ..	2,523,319	2,523,319	2,389,714	780,562	3,170,276	2,114,225	544,987	2,659,212		
					Total ..	6,773,814	6,018,171	5,669,767	1,401,084	7,070,851	5,244,348	1,142,479	6,386,827		

* Excluding Feudatory States.

Prepared by the Board of Revenue—vide B.P. No. 191, dated 13th November 1919.

F-I.—Statement showing the water-rates per acre which were in force under classes I and II works in the Madras Presidency during the year ending 30th June 1919.

Description of crop.	Godavari and Kistna anicuts (except Government dry lands on which the differential water-rates are levied).	Divi pumping system.	Kurnool-Cuddapah canal.	Periyar system.	* Other systems (in tracts where the differential water-rate system does not prevail).
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
1. Single wet crop	5 0 0	5 0 0	4 0 0	5 0 0	
2. Second wet crop	5 0 0	2 8 0 *plus* half the dry assessment	3 0 0	3 0 0	
3. Second wet crop (if compounded for two crops for a term of not less than five years).	8 2 0	..	6 0 0	..	
4. Second dry crop on irrigated land except where the landholder has compounded under clause 3.	2 8 0	2 8 0	1 0 0	..	
5. For sugar-cane, betel and other garden produce remaining on the ground for the time of two crops.	10 0 0	..	6 0 0	8 0 0	
6. For sugar-cane, betel and other garden produce remaining on the ground for the time of two crops if compounded for a term of not less than five years.	8 2 0	..	..	..	
7. For a dry crop whether first or second grown on land for which irrigation has never been supplied or having been once supplied has been since discontinued.	2 8 0	2 8 0	1 0 0	..	
8. For a third irrigated crop (wet)	2 0 0	2 0 0	2 0 0	2 0 0	
9. Do. (dry)	1 0 0	1 0 0	1 0 0	1 0 0	
10. Dry crop systematically irrigated	5 0 0	5 0 0	..	..	
11. The charge for a single wet crop when the Collector considers the supply of water to be precarious.	2 8 0	2 8 0	..	..	
12. Second wet crop in the case of zamindari and inam lands.	..	5 0 0	..	..	
13. Second wet crop in the case of zamindari and inam lands where the cultivator has compounded for two crops for a term of not less than five years.	..	8 2 0	..	..	
14. For sugar-cane, betel and other garden produce remaining on the ground for the time of two crops.	..	7 8 0 *plus* half the dry assessment	..	..	
15. For sugar-cane, betel and other garden produce in zamindari and inam lands remaining on the ground for the time of two crops.	..	10 0 0	..	..	
16. For sugar-cane, betel and other garden produce in zamindari and inam lands remaining on the ground for the time of two crops, if the cultivator has compounded for a term of not less than five years.	..	8 2 0	..	..	
17. Single dry crop	..	..	1 0 0	..	
18. Garden crops (class 2 of the Madras Irrigation and Canal Company's rules).	..	..	3 0 0	..	
19. Mundia paddy	..	..	2 0 0	..	
20. (*a*) Water-rate for a single wet crop on wet or manul irrigated lands in zamindaris and whole inam villages, the old sources of supply to which have not been interfered with, but for which canal water is taken.	..	..	..	..	
(*b*) Water-rate for a single wet crop raised on rainfed paddy lands, whether in Government, zamindari or whole inam villages.	..	..	..	..	
(*c*) Water-rate for a single wet crop raised on ordinary dry lands, whether in Government, zamindari or whole inam villages.	..	..	..	..	
(*d*) Water-rate for second wet crop raised on lands falling under either of the above three heads (*a*), (*b*) and (*c*).	..	..	..	..	
(*e*) Water-rate for a second wet crop or for sugar-cane, betel, etc., requiring water longer than an ordinary wet crop, raised on wet lands in zamindari and whole inam villages deprived wholly or partially of their old sources of irrigation, but which are entitled to free irrigation for only one wet crop (G.O. No. 6195, Revenue, dated 3rd December 1891).	..	..	..	..	
(*f*) Water-rate on lands falling under either of the first three heads (*a*), (*b*) and (*c*) cultivated with sugar-cane, betel, etc., requiring water longer than an ordinary wet crop.	..	..	..	..	
(*g*) Water-rate for dry crops, whether first or second, irrigated on lands falling under either of the first three heads (*a*), (*b*) and (*c*).	..	..	..	..	
(*h*) Water-rate for an irrigated dry crop raised as second crop on lands falling under head (*c*) and on registered single crop wet lands in Government villages, provided that in the latter case half the first crop assessment may be levied instead, if it is less than the water-rate.	..	..	..	..	

F-I.—Statement showing the water-rates per acre which were in force under classes I and II works in the Madras Presidency during the year ending 30th June 1919—*cont.*

Description of crop.	Godavari and Kistna anicuts (exept Government dry lands on which the differential water-rates are levied).	Divi pumping system.	Kurnool-Cuddapah Canal.	Periyar system.	* Other systems (in tracts where the differential water-rate system does not prevail).
				RS. A. P.	
21. For a first dry crop systematically irrigated ..	..	..	..	5 0 0	..
22. For a second dry crop systematically irrigated ..	..	..	.	3 0 0	..
23. For a first or second dry crop occasionally irrigated..	..	..	.	2 8 0	..
24. Special crops like onions, sweet potatoes, chillies, tobacco (the same as for a dry crop systematically irrigated).	.	..	..	5 0 0	..
25. Mango topes, coconut topes and other tope plantations, (*a*) if they take water for a term of two wet crops.	..	..	..	8 0 0	..
(*b*) In other cases	..	..	..	5 0 0	..

NOTE.—When the water used for irrigation cannot be obtained without raising it by baling or by some mechanical contrivance, a deduction of one-fourth of the water-rate will be made.

* First crop on dry land.	Second crop on dry land.	Charge for		Total charge.
		First crop.	Second crop.	
		RS.	RS. A. P.	RS. A. P.
1. Wet	Wet	4	2 0 0	6 0 0
2. Do.	Dry, systematically irrigated	4	1 8 0	5 8 0
3. Do.	Dry, occasionally irrigated	4	1 0 0	5 0 0
4. Dry, systematically irrigated	Wet	3	2 8 0	5 8 0
5. Do. do.	Dry, systematically irrigated	3	2 0 0	5 0 0
6. Do. do.	Dry, occasionally irrigated	3	1 8 0	4 8 0
7. Dry, occasionally irrigated	Wet	2	3 0 0	5 0 0
8. Do. do.	Dry, systematically irrigated	2	2 8 0	4 8 0
9. Do. do.	Dry, occasionally irrigated	2	2 0 0	4 0 0

Prepared by the Board of Revenue—vide B.P. No. 171, dated 18th October 1919.

APPENDIX II.

STATEMENT No. 1.

Statement showing the financial results of irrigation works of classes I and II for fasli 1328 (1918–19).

Systems.	Area charged as irrigated and area irrigated free of charge. First crop. Old irrigation.	First crop. New irrigation.	First crop. Total.	Second crop. Old irrigation.	Second crop. New irrigation.	Second crop. Total.	Direct receipts. Total land and irrigation revenue.	Direct receipts. Share due to irrigation.	Direct receipts. Deduct remissions and deductions	Direct receipts. Net revenue due to irrigation.	Direct receipts. Deduct portion due to old irrigation.	Direct receipts. Increase of revenue due to the outlay incurred.	Indirect receipts. Increment of land assessment due to irrigation.	Indirect receipts. Land assessment of waste lands brought under irrigation.	Indirect receipts. Land revenue of miscellaneous items.	Indirect receipts. Four per cent on the amount realized by the sale of tank-bed or other waste lands.	Indirect receipts. Total.	Total of columns (13) and (18).
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
CLASS I.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.	RS.	RS.	RS.	RS.
Imperial Major Productive Works.																		
1. Nagavali river project	10,600	10,255	20,855	5,200	181	5,381	1,12,445	92,586	720	91,866	37,400	54,466	..	1	1,092	4,752	5,845	60,311
2. Godāvari delta system ..	156,150	603,262	759,412	..	804,586	804,586	53,32,086	42,85,456	27,732	42,57,724	1,24,000	41,33,724	..	1,80,507	8,161	3,377	1,92,045	43,25,769
3. Kistna delta system	70,710	647,303	718,013	..	6,154	6,154	44,16,962	35,22,841	1,22,740	34,00,101	71,000	33,29,101	..	99,046	16,703	19,102	1,34,851	34,63,952
4. Divi pumping system	9,900	21,510	31,410	..	3	3	1,54,390	1,54,390	168	1,54,222	20,300	1,33,922	..	2,143	4,086	17,392	23,621	1,57,543
5. Penner river canals system ..	99,080	54,144	153,224	1,050	37,421	38,471	9,83,076	8,35,920	10,813	8,25,107	2,56,000	5,69,107	..	43,385	3,711	12,564	59,660	6,28,767
6. Kurnool-Cuddapah canal ..	6,643	56,823	63,264	..	13,643	13,643	3,24,734	2,94,864	713	2,94,151	28,285	2,65,866	..	496	926	34	1,456	2,67,322
6A. Chēpād channel	1,406	4,309	5,715	56	244	300	31,392	28,535	6	28,529	7,587	20,942	..	351	26	..	377	21,319
7. Barur tank	1,330	1,469	2,799	430	347	777	25,118	20,671	11,102	9,569	4,500	5,069	..	36	..	435	471	5,540
8. Poiney anicut system	15,550	— 550	15,000	2,500	— 511	1,989	1,29,381	94,871	73,052	21,819	38,000	— 16,181	..	5,281	131	39	5,451	— 10,730
9. Cheyyār anicut system	14,960	4,420	19,380	1,630	3,968	5,598	1,39,619	96,764	15,677	81,087	39,000	42,087	..	3,196	104	14	3,314	45,401
10. Tirukkōyilūr anicut system ..	18,086	7,692	25,772	30	4,124	4,154	1,40,316	1,04,547	6,424	98,123	60,000	36,123	..	3,286	76	..	3,362	39,485
11. Shōtiatopa anicut system ..	7,160	23,144	30,304	..	5,252	5,252	1,77,233	1,26,398	58	1,26,340	20,000	1,06,340	..	14,891	318	..	15,209	1,21,549
12. Lower Coleroon anicut system ..	44,750	62,931	107,681	170	5,368	5,538	6,32,212	4,00,433	6,735	3,93,698	1,55,000	2,38,698	..	51,192	318	..	51,510	2,90,208
13. Cauvery delta system	745,360	94,935	840,285	34,080	50,716	84,796	54,25,427	42,65,437	2,55,280	39,10,157	34,00,000	5,10,157	..	1,07,501	10,571	..	1,18,072	6,28,229
14. Periyār system	65,600	62,936	128,536	16,100	28,470	44,570	10,65,626	9,13,117	22,813	8,90,304	2,04,000	6,86,304	..	6,894	4,940	36,168	48,002	7,34,306
15. Srīvaikuntam anicut system ..	14,580	10,334	24,914	5,850	6,296	12,146	2,63,095	2,21,404	1,078	2,20,326	79,000	1,41,326	..	1,423	67	..	1,490	1,42,816
Total ..	1,279,859	1,664,747	2,944,606	67,096	466,282	533,378	1,98,52,106	1,54,56,234	6,55,111	1,48,01,123	15,44,072	1,02,57,051	..	5,19,629	51,230	93,877	6,64,736	1,09,21,787
Protective Works.																		
1. Rushikulya system	58,100	47,742	105,842	..	1,996	1,996	3,63,600	2,41,938	4,099	2,37,839	67,000	1,70,839	..	3,122	236	1,152	4,510	1,75,349
Total of class I works ..	1,337,959	1,712,496	3,050,455	67,096	468,278	535,374	1,97,16,706	1,56,98,172	6,59,210	1,50,38,962	46,11,072	1,04,27,890	..	5,22,751	51,466	95,029	6,69,246	1,10,97,136
CLASS II.																		
Provincial Minor Works and Navigation for which Capital and Revenue Accounts are kept.																		
1. Ganjām minor rivers system ..	51,260	12,086	63,346	..	6,669	6,669	2,14,288	1,40,808	1,939	1,38,869	95,000	43,869	..	6,586	738	..	7,324	51,193
2. Muniyēru project	600	5,808	6,408	..	19	19	26,748	25,907	2,089	23,818	2,500	21,338	..	2	58	..	60	21,398
3. Peddarāyudu tank of Chinnarowpalem.	..	41	41	..	..	..	163	163	..	163	..	163	..	..	..	..	..	163
4. Jangamahēswarapuram tank ..	150	635	785	7	11	18	3,897	2,642	735	1,907	500	1,407	..	..	..	..	..	1,407
5. Atmakur tank	..	757	757	..	182	182	4,109	3,412	..	3,412	..	3,412	..	..	..	..	..	3,412
6. Dondapad tank	..	186	186	..	..	..	722	722	..	722	..	722	..	1	2	..	3	725
7. Hajipuram tank	..	639	639	..	27	27	3,747	3,129	..	3,129	..	3,129	..	..	15	..	15	3,144
8. Ponnalūr tank	..	821	821	..	103	103	6,307	4,826	582	4,244	..	4,244	..	..	..	..	..	4,244
9. Anamasamudram Biraperu tank ..	906	98	998	80	— 78	2	4,442	3,937	..	3,937	3,600	337	..	..	1	..	1	338
10. Erūr tank	80	1,266	1,346	2	— 2	..	4,912	3,705	164	3,541	425	3,116	..	..	64	..	64	3,180
11. Sagilēru system	3,900	— 78	3,822	700	— 385	315	16,633	14,334	6,634	7,700	17,800	— 10,100	..	..	4	..	4	— 10,096
12. Cumbum tank	4,850	771	5,621	2,670	231	2,901	55,252	48,194	15	48,179	30,000	18,179	..	448	18	..	461	18,640
13. Markapur tank	450	942	1,392	50	702	752	9,001	8,187	..	8,187	2,130	6,057	..	..	1	..	1	6,058
14. Arakankottai channel	2,730	1,905	4,635	10	496	506	44,954	38,442	226	38,216	19,000	19,216	..	354	56	..	410	19,626
15. Tadapalli channel	9,990	4,875	14,865	170	1,517	1,687	1,61,753	1,38,696	314	1,38,382	76,000	62,382	..	2,561	39	..	2,900	65,282
16. Kalingarāyan channel	8,300	3,642	11,942	8,350	— 487	7,863	1,32,374	1,21,960	46	1,21,914	85,000	36,914	..	419	64	..	483	37,397
17. Palār anicut system	53,890	13,064	66,954	16,070	— 174	15,896	4,22,494	3,14,023	1,30,101	1,83,922	1,25,000	58,922	..	15,485	320	927	16,733	75,655
18. Vallūr anicut system	4,030	1,148	5,178	10	169	179	11,491	7,479	232	7,247	5,000	2,247	..	1,067	7	..	1,074	3,321
19. Madras water-supply and irrigation system.	5,630	1,885	7,515	780	2,945	3,725	38,075	28,556	498	28,058	11,000	17,058	..	441	21	..	462	17,520
20. Chembrambākkam tank ..	11,370	1,870	13,240	1,160	5,718	6,878	89,126	66,297	146	66,151	16,000	50,151	..	849	59	..	908	51,059
21. Mēhmattur anicut system ..	990	3,162	4,152	..	331	331	25,970	19,500	139	19,361	4,000	15,361	..	28	23	..	51	15,412
22. Vriddhachalam anicut system ..	2,430	5,605	8,035	..	337	337	48,237	32,305	..	32,305	8,500	23,805	..	277	17	..	294	24,099
23. Pelāndorai anicut system ..	2,120	9,408	11,528	100	218	318	56,375	44,329	21	44,308	3,000	41,308	..	55	21	..	76	41,384
24. Nandyār channel	4,680	1,636	6,316	1,570	546	2,116	27,969	22,335	119	22,216	17,000	5,216	..	36	18	..	54	5,270
25. Marudūr anicut system ..	17,020	402	17,422	590	13,435	14,025	2,40,332	2,07,201	659	2,06,542	1,15,000	91,542	..	223	42	..	270	91,812
Total of class II works ..	185,370	72,574	257,944	32,319	32,520	64,839	16,51,471	13,01,089	1,44,639	11,56,450	6,36,455	5,19,995	..	29,133	1,588	927	31,648	5,51,643
Grand total of classes I and II works.	1,523,329	1,785,070	3,308,399	99,415	500,798	600,213	2,13,68,177	1,69,99,261	8,03,849	1,61,95,412	52,47,527	1,09,47,885	..	5,51,884	53,054	95,956	7,00,894	1,16,48,779

Prepared by the Board of Revenue—vide B.P. No. 171, dated 18th October 1919.

STATEMENT No. 1—*cont.*

Systems.	Net receipts, direct and indirect.			Gross indirect receipts.		
	Actuals, 1917-18.	1918-19.		Actuals, 1917 18.	1918-19.	
		Revised estimates	Actuals.		Revised estimates.	Actuals.
	RS.	RS.	RS.	RS	RS.	RS.
1. Nagavali river project	48,346	63,000	57,533	1,093	1,098	5,845
2. Godavari delta system	39,30,717	38,80,000	41,09,649	1,92,005	1,92,005	1,92,045
3. Kistna delta system	34,10,544	34,11,000	32,91,709	1,34,844	1,35,167	1,34,851
4. Divi pumping system ..	1,52,412	1,59,000	1,50,535	22,156	22,156	23,621
5. Pennér river canals system ..	5,94,984	5,84,000	5,97,957	59,660	59,660	59,660
6. Kurnool-Cuddapah canal ..	2,25,649	2,21,000	2,53,958	1,456	1,456	1,456
6A. Chepad channel	19,133	18,000	20,253	377	377	377
7. Barur tank	18,403	12,000	5,285	458	458	471
8. Poiney anicut system	73,566	23,000	— 10,192	5,451	5,451	5,451
9. Cheyyar anicut system	61,306	18,000	43,132	3,314	3,314	3,314
10. Tirukkoyilur anicut system ..	53,566	52,000	37,511	3,362	3,362	3,362
11. Shâtiatope anicut system ..	1,10,138	1,06,000	1,15,472	15,209	15,209	15,209
12. Lower Coleroon anicut system ..	2,87,652	2,82,000	2,75,698	51,510	51,510	51,510
13. Cauvery delta system	9,38,650	9,39,000	5,96 818	1,18,072	1,18,072	1,18,072
14. Poriyar system	5,74,421	5,52,000	6,99,399	42,795	42,795	48,002
15. Srivaikuntam anicut system ..	1,44,490	1,38,000	1,35,675	1,490	1,490	1,490
16. Rushikulya system	1,81,545	1,76,000	1,66,639	4,155	4,155	4,510

APPENDIX II.

STATEMENT No. 2.

Statement showing the extent irrigated and the revenue derived under Class III Works for fasli 1328 (1918–19).

Districts.	Area charged as irrigated and area irrigated free of charge.								Direct receipts.				Indirect receipts.						
	First crop.				Second crop.														
	(1)	(2) Old irrigation.	(3) New irrigation.	(4) Total.	(5) Old irrigation.	(6) New irrigation.	(7) Total.	(8) Total land and irrigation revenue.	(9) Share due to irrigation.	(10) Inclusive remissions and deductions.	(11) Net revenue due to irrigation.	(12) Inclusive portion due to old irrigation.	(13) Increase of revenue due to the outlay incurred.	(14) Increment of land assessment due to irrigation.	(15) Land assessment of waste lands brought under irrigation.	(16) Land revenue of miscellaneous items.	(17) Four per cent on the amount realized by sale of tank-bed or other waste lands.	(18) Total.	(19) Total of columns (13) and (18).
				ACS.			ACS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Class III—Minor Works and Navigation for which neither Capital nor Revenue Accounts are kept.																			
Ganjam	..	..	..	121,305	..	..	8,193	3,16,526	1,73,131	75,744	97,387	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.
Vizagapatam	..	..	..	85,013	..	..	16,684	3,36,767	2,24,954	95,584	1,29,370								
Godavari	..	..	..	74,948	..	..	2,831	2,67,835	1,83,667	96,762	86,905								
Kistna	..	..	..	46,262	..	..	986	1,66,027	1,81,586	43,140	88,446								
Guntur	..	..	..	23,519	..	..	979	1,37,459	1,01,249	14,998	86,251								
Nellore	..	..	..	132,898	..	..	24,756	7,14,266	5,94,616	12,953	5,81,663								
Cuddapah	..	..	..	92,951	..	..	26,781	4,07,679	3,36,348	83,129	2,53,219								
Anantapur	..	..	..	130,305	..	..	32,724	5,80,566	4,91,522	1,94,664	2,96,658								
Bellary	..	..	..	51,819	..	..	9,275	2,54,399	2,27,561	25,380	2,02,191								
Kurnool	..	..	..	42,781	..	..	5,377	1,68,606	1,39,091	41,627	97,464								
Chittoor	..	..	..	84,069	..	..	20,127	4,93,136	3,83,176	2,53,910	1,29,266								
Chingleput	..	..	..	353,672	..	..	94,839	14,03,545	9,96,366	48,667	9,46,699								
North Arcot	..	..	..	178,675	..	..	39,018	11,71,909	8,16,444	3,17,101	4,99,343								
South Arcot	..	..	..	266,810	..	..	52,615	15,25,796	10,89,270	67,831	10,21,539								
Tanjore	..	..	..	74,238	..	..	2,750	1,71,131	1,28,602	15,379	1,13,223								
Trichinopoly	..	..	..	147,197	..	..	41,030	8,83,410	6,46,037	10,087	6,36,950								
Madura	..	..	..	122,130	..	..	25,440	7,18,728	5,68,567	51,742	5,16,825								
Ramnad	..	..	..	34,802	..	..	10,261	2,05,586	1,70,284	6,242	1,64,042								
Tinnevelly	..	..	..	164,554	..	..	95,801	14,04,479	11,80,152	33,280	11,46,872								
Coimbatore	..	..	..	65,245	..	..	15,772	4,40,110	3,61,523	3,931	3,57,592								
Salem	..	..	..	87,770	..	..	24,084	5,75,716	3,86,284	1,88,269	1,97,015								
Total ..	..	..	..	2,374,968	..	..	654,103	1,23,54,264	93,28,320	16,80,340	76,47,980								

NOTE.—Details of extent and revenue relating to old and new irrigation are not calculated for Class III Works.

Prepared by the Board of Revenue—vide B.P. No. 192, dated 19th November 1919.

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. MADRAS PRESIDENCY.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Major Works, the direct Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the simple interest on the Capital outlay on those works.

Major Works.

Name of project.	Cost of Construction as now estimated.			Capital Outlay.						Receipts during 1918–1919.			Working expenses during 1918–1919.			Net result excluding Interest (difference between Revenue and Working Expenses).				Simple interest during 1918–1919.	Net Result including Interest.			
				During 1918–1919.			To end of 1918–1919.											Rate per cent.					Rate per cent.	
	Direct charges.	Indirect charges.	Total.	Direct charges.	Indirect charges.	Total.	Direct charges.	Indirect charges.	Total.	Water-rates, etc.	Collected with land revenue.	Total.	Direct charges.	Indirect charges.	Total.	Excess revenue (surplus).	Excess expenditure (deficit).	Of excess revenue.	Of excess expenditure.		Excess revenue (surplus).	Excess expenditure (deficit).	Of excess revenue.	Of excess expenditure.
Productive Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.				Rs.	Rs.	Rs.		
Nagavalli river project ..	17,77,089	68,530	18,45,569	1,882	684	2,566	16,50,880	40,596	16,91,476	55,418	5,845	61,263	39,059	1,350	40,409	20,854	..	1·23	..	57,418	..	36,594	..	2·16
Gōdāvari delta system ..	1,37,60,683	19,54,502	1,57,15,185	1,69,062	7,182	1,76,244	1,33,20,877	19,73,878	1,52,94,755	42,89,474	1,92,045	44,81,519	8,43,174	24,659	8,67,833	36,13,686	..	23·63	..	4,60,863	31,52,823	..	20·61	..
Kistna do. ..	1,55,45,376	10,64,984	1,66,10,360	82,090	11,224	93,324	1,54,62,039	10,68,607	1,65,30,646	34,47,297	1,34,851	35,82,148	6,85,707	23,985	7,09,692	28,72,456	..	17·38	..	5,36,928	23,35,528	..	14·13	..
Divi pumping system ..	20,06,377	27,674	20,34,051	24,822	2,140	26,962	19,45,259	31,850	19,77,109	1,35,243	23,621	1,58,364	1,07,907	5,028	1,12,933	45,931	..	2·32	..	67,298	..	21,367	..	1·08
Pennēr river canals system.	57,25,570	10,12,792	67,38,362	10,867	250	11,117	57,13,040	10,13,063	67,26,103	5,71,355	59,660	6,31,315	71,561	938	72,489	5,58,826	..	8·31	..	1,98,728	3,60,098	..	5·35	..
Kurnool-Cuddapah canal.	2,32,86,572	78,084	2,33,64,656	1,63,643	9,185	1,72,828	2,30,97,480	60,236	2,31,57,716	2,99,690	1,883	3,01,513	2,29,345	11,969	2,41,314	60,199	.	0·26	..	8,01,359	..	7,41,160	..	3·20
Barur tank	4,19,375	23,738	4,43,113	..	..	..	4,19,375	23,738	4,43,113	6,757	471	7,228	7,345	245	7,590	..	362	..	0·08	14,602	..	14,964	..	3·38
Poiney anicut system ..	2,73,325	6,379	2,79,704	7,075	274	7,349	2,46,154	6,683	2,52,837	—15,551	5,451	—10,100	14,019	563	14,582	..	24,682	..	9·76	8,448	..	33,130	..	13·10
Cheyaru do. ..	4,42,925	11,754	4,54,679	..	..	..	4,25,705	11,754	4,37,459	43,989	3,314	47,303	51,611	1,909	53,520	..	6,217	..	1·42	14,822	..	21,039	..	4·81
Tirukkōyilūr anicut system	3,66,759	9,189	3,75,948	..	..	..	3,66,759	9,189	3,75,948	37,223	3,362	40,585	25,400	907	26,307	14,278	..	3·80	..	12,770	1,508	..	0·40	..
Shatiatope anicut system.	9,15,245	57,271	9,72,516	..	..	..	9,15,245	57,271	9,72,516	1,07,078	15,209	1,22,287	29,653	912	30,565	91,722	..	9·43	..	31,867	59,855	.	6·15	..
Lower Coleroon anicut system	18,71,420	71,259	19,42,679	1,946	75	2,021	18,71,543	71,334	19,42,877	2,43,554	51,510	2,95,064	1,09,180	3,662	1,12,842	1,82,222	..	9·38	..	65,127	1,17,095	..	6·03	..
Tolūdur project ..	29,60,000	2,50,000	32,10,000	2,25,006	16,701	2,41,707	11,84,234	1,98,672	13,82,906	..	..	..	..	..	..	..	..	..	..	37,316	..	37,316	..	2·70
Cauvery delta system ..	43,61,067	1,87,060	45,08,127	31,456	1,316	32,772	42,29,468	1,93,660	44,23,128	5,21,290	1,18,072	6,39,362	1,69,932	5,452	1,75,384	4,63,978	..	10·49	..	1,46,714	3,17,264	..	7·17	..
Periyār system	1,03,13,114	3,67,080	1,06,80,194	8,673	622	9,295	1,03,06,051	3,67,150	1,06,73,201	7,03,800	48,002	7,51,802	1,41,157	4,726	1,45,883	6,05,919	..	5·68	..	3,58,685	2,47,234	..	2·32	..
Srīvaikuntam anicut system	16,31,042	1,04,636	17,35,678	6,530	283	6,813	16,33,165	1,05,899	17,39,064	1,46,274	1,490	1,47,764	24,339	767	25,606	1,22,158	..	7·02	..	58,750	65,408	..	3·76	..
Total, Productive Works.	8,56,15,889	52,94,932	9,09,10,821	7,82,052	49,946	7,82,998	8,27,87,274	52,33,580	8,80,20,854	1,05,93,131	6,64,786	1,12,57,917	25,49,879	87,070	26,36,949	86,20,968	..	9·79	..	28,69,725	57,51,243	..	6·53	..
Protective Works.																								
Rushikulya system ..	47,06,479	4,12,945	51,19,424	12,098	451	12,549	46,94,555	4,13,327	51,07,882	1,72,221	4,510	1,76,731	64,062	2,065	66,127	1,10,604	..	2·17	..	1,63,245	..	52,641	..	1·03
Bhavanasi project ..	2,02,289	6,711	2,09,000	26,932	1,280	28,212	2,49,621	10,858	2,60,439	..	..	..	..	..	..	..	..	..	..	8,221	..	8,221	..	3·16
Mopad project	21,00,753	96,247	21,97,000	1,67,344	3,953	1,71,297	20,01,853	92,647	20,94,500	..	..	..	..	..	..	..	..	..	..	66,787	..	66,787	..	3·19
Venkatapuram tank ..	3,31,776	14,824	3,46,600	2,310	127	2,437	3,69,157	12,482	3,81,639	..	..	..	831	46	877	..	877	..	0·23	12,813	..	13,690	..	3·59
Total, Protective Works.	73,41,297	5,30,727	78,72,024	2,08,684	5,811	2,14,495	73,15,146	5,29,314	78,44,460	1,72,221	4,510	1,76,731	64,893	2,111	67,004	1,09,727	..	1·40	..	2,51,066	..	1,41,339	..	1·80
Grand Total ..	9,29,57,186	58,25,659	9,87,82,845	9,41,736	55,757	9,97,493	9,01,02,420	57,62,894	9,58,65,314	1,07,65,402	6,69,296	1,14,34,648	26,14,772	89,181	27,03,953	87,30,695	..	9·11	..	31,20,791	56,09,904	..	5·85	..

NAGAVALLI RIVER SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated.	Expenditure against closed estimates.
	RS.	RS.	RS	RS.	
1. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses	48	..	48	48	..
B. Land	..	..	..	300	..
C. Works	4,49,612	892	4,50,504	4,56,218	..
K. Buildings	20,792	..	20,792	20,673	..
O. Miscellaneous	..	..	..	15	..
Unforeseen works	.	..	..	17,005	..
Total ..	4,70,452	892	4,71,344	4,94,259	..
(2) *Main Canals and Branches*—					
A. Preliminary expenses	2,937	..	2,937	2,938	..
B. Land	28,266	..	28,266	26,962	..
D. Regulators	3,064	57	3,121	4,149	..
E. Falls and weirs	10,847	..	10,847	10,384	..
F. River and hill torrent works	..	17	17	..	..
F. (1) Other cross drainage works	2,42,440	..	2,42,440	2,45,647	..
G. Bridges	7,981	..	7,981	8,151	..
H. Escapes	822	..	822	822	..
I. Navigation	..	..	..	..	..
K. Buildings	10,738	..	10,738	10,713	..
L. Earthwork	2,79,678	..	2,79,678	2,79,706	..
O. Miscellaneous	3,087	..	3,087	3,087	..
P. Maintenance	..	..	..	..	..
Unforeseen works	295	..	295	7,781	..
Total ..	5,90,105	74	5,90,179	6,00,240	..
(3) *Distributaries*—					
B. Land	24,662	..	24,662	29,076	..
C. Works	98,876	—52	98,824	1,19,706	..
L. Earthwork	92,473	1,639	94,112	97,530	..
O. Miscellaneous	6,653	241	6,896	5,232	..
P. Maintenance	..	..	..	..	..
Unforeseen works	..	..	..	13,057	..
Total ..	2,22,664	1,828	2,24,492	2,64,591	..
(5) *Special tools and plants*—					
Maintenance during construction	16,500	..	16,500	21,000	.
Total Works ..	12,99,721	2,794	13,02,515	13,80,090	..
II. ESTABLISHMENT	2,57,935	1,040	2,58,975	2,90,149	..
III. TOOLS AND PLANT	92,719	67	92,786	1,06,809	..
IV. SUSPENSE ACCOUNTS	..	..	..	..	..
Grand Total ..	16,50,375	3,901	16,54,276	17,77,039	..
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	1,377	2,019	3,396	..	..
Net Total ..	16,48,998	1,882	16,50,880	17,77,039	..
Apportionment—					
Chargeable to 49. Irrigation	16,48,998	1,882	16,50,882	..	..

NAGAVALLI RIVER SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations	4	..	4
6. Receipts from other canal produce ..	1,849	360	2,209
8. Navigation ..	1	..	1
9. Rents of buildings ..	623	215	838
11. Miscellaneous ..	2,413	377	2,790
Total, Revenue realized in Public Works Department ..	4,890	952	5,842
Irrigation Revenue realized in Civil Department ..	3,08,299	54,466	3,62,765
Total, Direct Receipts ..	3,13,189	55,418	3,68,607
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department ..	9,833	5,845	15,678
Total, Public Works and Civil Departments, Revenue ..	3,23,022	61,263	3,84,285
Total Receipts ..	3,23,022	61,263	3,84,285

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	1,099	174	1,273
(2) Main canals and branches ..	1,397	10,658	12,055
(3) Distributaries	1,391	3,268	4,659
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant.. ..	..	..	..
Total ..	3,887	14,100	17,987
II. MAINTENANCE AND REPAIRS—			
(1) Head works	46,903	2,469	49,372
(2) Main canals and branches ..	38,616	7,038	45,654
(3) Distributaries	11,146	5,197	16,343
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant	..	..	..
Add—Unclassifiable outlay ..	..	..	..
Total ..	96,665	14,704	1,11,369
Total, Extensions and Improvements and Maintenance and Repairs ..	1,00,552	28,804	1,29,356
IV. ESTABLISHMENT	39,041	10,718	49,759
V. TOOLS AND PLANT	406	694	1,100
VI. REFUNDS OF REVENUE	45	106	151
Total, Direct Charges ..	1,40,044	40,322	1,80,366
Share of collection charges in the Civil Department	15,906	2,778	18,684
Indirect Charges	5,465	1,501	6,966
Total, Direct and Indirect Charges.	1,61,415	44,601	2,06,016
Deduct—Old maintenance charges saved to Government *	3,960	4,192	8,152
Net total ..	1,57,455	40,409	1,97,864
Balance, net revenue	1,65,567	20,854	1,86,421
Grand Total ..	3,23,022	61,263	3,84,285

* Direct—

	RS.
Extensions and Improvements	1,432
Maintenance and Repairs	1,462
Establishment	1,077
Tools and Plant	70
Total ..	4,041
Indirect	151
	4,192

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	5,31,962	Net revenue realized to end of 1917–1918 ..	1,65,567
Total interest charges for the year 1918–1919 ..	57,448	Net revenue realized during 1918–1919	20,854
		Balance on interest charges	4,02,989
Total ..	5,89,410	Total ..	5,89,410

NAGAVALLI RIVER SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	3,802	538	4,340
Leave and pension allowances	36,110	146	36,256
Total ..	39,912	684	40,596
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	5,465	1,501	6,966
Total ..	5,465	1,501	6,966
Grand Total ..	45,377	2,185	47,562

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
				RS.	RS.	RS.	RS.		RS.
Direct Charges.									Direct.
Works	..	..	..	13,02,515	13,80,090	77,575	13,02,515	399 I., dated 15th July 1913.	13,56,000
Establishment ..	..	..	..	2,58,975	2,90,149	31,174	2,58,975	235 I., dated 27th May 1914.	1,290
Tools and plant ..	..	..	..	92,786	1,06,800	14,014	92,786	285 I., dated 16th June 1914.	5,600
Suspense account ..	..	..	..	..	..	..	..	519 I., dated 13th November 1916.	17,800
Total ..	..	..	..	16,54,276	17,77,039	1,22,763	16,54,276		13,80,690
Less—Receipts on Capital account.	..	..	..	3,396	..	— 3,396	3,396	399 I., dated 15th July 1913.	Indirect. 68,530
Net Total ..	..	..	..	16,50,880	17,77,039	1,26,159	16,50,880		
Indirect Charges.									
Capitalized abatement of land revenue ..	..	..	..	4,340	28,650	24,310	4,340		
Leave and pension allowances ..	..	..	..	36,256	39,880	3,624	36,256		
Total ..	..	..	..	40,596	68,530	27,934	40,596		
Grand Total ..	..	..	..	16,91,476	18,45,569	1,54,093	16,91,476		

GŌDĀVARI DELTA SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1890).	Expenditure against closed estimate.
1	2	3	4	5	6
I. WORKS—					
(1) *Head Works*—	RS.	RS.	RS.	RS.	RS.
B. Land	13,627	..	13,627	13,627	13,627
C. Works	4,73,169	140	4,73,309	4,69,902	4,69,902
K. Buildings	48,187	..	48,137	48,187	48,187
L. Earthwork	52,443	9,024	61,467	71,800	..
O. Miscellaneous	5,304	1,927	7,231	11,353	5,304
Total ..	5,92,730	11,091	6,03,821	6,14,869	5,37,020
(2) *Main Canals and Branches*—					
A. Preliminary expenses	51	..	51	51	51
B. Land	64,004	..	64,004	63,247	62,927
D. Regulators..	48,172	..	48,172	51,642	48,172
E. Falls and weirs	6,423	..	6,423	19,623	6,423
F. River and hill torrent works ..	67,450	..	67,450	67,450	67,450
F (1) Other cross drainage works ..	80,068	..	80,068	80,068	80,068
G. Bridges	35,022	..	35,022	37,629	36,099
H. Escapes	86,212	..	86,212	86,212	86,212
I. Navigation	12,31,220	33,078	12,64,298	13,02,798	12,27,038
K. Buildings	38,190	1,677	39,867	40,114	33,614
L. Earthwork	9,67,667	13,447	9,81,114	9,48,933	9,41,338
O. Miscellaneous	21,742	..	21,742	28,406	23,081
Total ..	26,46,221	48,202	26,94,423	27,26,173	26,12,473
(3) *Distributaries*—					
A. Preliminary expenses	1,139	..	1,139	901	901
B. Land	67,883	3,510	71,393	1,00,725	67,530
C. Works	3,96,811	19,070	4,15,881	4,62,467	3,95,216
L. Earthwork	3,10,484	3,995	3,14,479	3,68,986	2,95,022
O. Miscellaneous	15,560	— 153	15,407	34,753	11,111
P. Maintenance	..	..	..	..	..
Total ..	7,91,877	26,422	8,18,299	9,67,832	7,69,780
(4) *Drainage and Protective Works*—					
A. Preliminary expenses	..	..	..	..	..
B. Land	1,22,100	..	1,22,100	1,69,083	42,293
C. Works	1,77,572	2,407	1,79,979	2,51,642	1,71,132
H. Escapes	..	..	..	..	..
L. Earthwork	12,78,675	24,138	13,02,813	13,85,915	9,66,986
O. Miscellaneous	8,354	3,255	11,609	12,753	6,673
Total ..	15,86,701	29,800	16,16,501	18,19,893	11,87,084
(5) *Special tools and plant*—					
Provision for unforeseen works ..	..	..	..	..	..
Total outlay on current sanctions ..	56,17,529	1,15,515	57,33,044	61,28,267	51,06,357
Old outlay	42,99,072	..	42,99,072	42,99,072	42,99,072
Total Works ..	99,16,601	1,15,515	1,00,32,116	1,04,27,339	94,05,429
II. ESTABLISHMENT	23,12,468	51,303	23,63,771	24,10,219	22,25,374
III. TOOLS AND PLANT	9,24,272	2,244	9,26,516	9,24,651	9,24,298
IV. SUSPENSE ACCOUNTS	..	..	..	..	..
Grand Total ..	1,31,53,341	1,69,062	1,33,22,403	1,37,62,209	1,25,55,101
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	1,526	..	1,526	1,526	1,526
Net Total ..	1,31,51,815	1,69,062	1,33,20,877	1,37,60,683	1,25,53,575
Apportionment—					
Chargeable to 49. Irrigation	1,31,51,815	1,69,062	1,33,20,877	..	..
Chargeable to 43. Minor Works and Navigation—					
Imperial	..	..	..	..	..
Provincial	..	..	..	..	..
Total ..	1,31,51,815	1,69,062	1,33,20,877	..	..

GŌDĀVARI DELTA SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918-1919.

Receipts.	Total. Previous.	1918-1919.	Total.
	RS.	RS.	RS.
DIRECT RECEIPTS—			
3. Sale of water ..	4,322	1,913	6,235
4. Water-supply of towns ..	10,999	788	11,787
5. Receipts from plantations ..	3,23,740	3,699	3,27,439
6. Receipts from other canal produce ..	4,75,719	24,216	4,99,935
8. Navigation receipts	39,47,274	1,11,532	40,58,806
9. Rents of buildings.	10,902	459	11,361
10. Fines	4,363	302	4,665
11. Miscellaneous ..	3,07,752	12,841	3,20,593
Total, Revenue realized in Public Works Department	50,85,071	1,55,750	52,40,821
Irrigation Revenue realized in Civil Department	12,80,42,847	41,33,724	13,21,76,571
Total, Direct Receipts.	13,31,27,918	42,89,474	13,74,17,392
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	97,38,046	1,92,045	99,30,091
Total, Public Works and Civil Departments, Revenue	14,28,65,964	44,81,519	14,73,47,483
Total, Receipts ..	14,28,65,964	44,81,519	14,73,47,483

Charges.	Total. Previous.	1918-1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	82,534	3,717	86,251
(2) Main canals and branches ..	5,03,533	628	5,04,161
(3) Distributaries	6,64,360	7,552	6,71,912
(4) Drainage and protective works ..	77,574	35,339	1,12,913
(5) Special tools and plant	..	44,582	44,582
Total ..	13,28,001	91,818	14,19,819
II. MAINTENANCE AND REPAIRS—			
(1) Head works	14,00,510	30,939	14,31,449
(2) Main canals and branches ..	57,05,814	1,70,348	58,76,162
(3) Distributaries	31,22,891	38,838	31,61,729
(4) Drainage and protective works ..	12,97,015	55,904	13,52,919
(5) Special tools and plant	27,27,548	52,825	27,80,373
Add—Unclassifiable outlay ..	..	..	..
Total ..	1,42,53,778	3,48,854	1,46,02,632
Total, Extensions and Improvements and Maintenance and Repairs ..	1,55,81,779	4,40,672	1,60,22,451
IV. ESTABLISHMENT	1,10,67,434	1,76,136	1,12,43,570
V. TOOLS AND PLANT	26,54,689	9,830	26,64,519
VI. REFUNDS OF REVENUE	18,921	416	19,337
Total, Direct Charges ..	2,93,22,823	6,27,054	2,99,49,877
Share of collection charges in the Civil Department	76,62,596	2,16,120	78,78,716
Indirect charges	18,19,616	24,659	18,44,275
Total, Direct and Indirect Charges ..	3,88,05,036	8,67,833	3,96,72,868
Balance, net revenue ..	10,40,60,928	36,13,686	10,76,74,615
Grand Total ..	14,28,65,964	44,81,519	14,73,47,483

No. 4.—Interest Account for and to end of 1918-1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917-18 ..	2,22,42,349	Net revenue realized to end of 1917-18 ..	10,40,60,929
Total interest charges for the year 1918-19 ..	4,60,863	Net revenue realized during 1918-19	36,13,686
Balance, net revenue	8,49,71,403		
Total ..	10,76,74,615	Total ..	10,76,74,615

GŌDĀVARI DELTA SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalisation of abatement of land revenue	15,24,142	..	15,24,142
Leave and pension allowances	4,42,554	7,182	4,49,736
Total ..	19,66,696	7,182	19,73,878
REVENUE—			
Capitalisation of abatement of land revenue	1,01,936	..	1,01,936
Leave and pension allowances	17,17,680	24,659	17,42,339
Total ..	18,19,616	24,659	18,44,275
Grand Total ..	37,86,312	31,841	38,18,153

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.
Direct Charges.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Works ...	79,85,366	14,20,063	94,05,429	6,26,687	10,21,910	3,95,223	1,00,32,116
Establishment.	19,55,654	2,69,720	22,25,374	1,38,397	1,84,845	46,448	23,63,771
Tools and plant.	8,69,822	54,476	9,24,298	2,218	353	1,865	9,26,516
Suspense account	..	...	...	...	...	...	...
Total ..	1,08,10,842	17,44,259	1,25,55,101	7,67,302	12,07,108	4,39,806	1,33,22,403
Less—Receipts on capital account ...	933	593	1,526	..		...	1,526
Net Total ...	1,08,09,909	17,43,666	1,25,53,575	7,67,302	12,07,108	4,39,806	1,33,20,877
Indirect Charges							
Capitalized abatement of land revenue.	14,95,991	28,151	15,24,142	...	...	...	15,24,142
Leave and pension allowances ...	3,92,601	37,759	4,30,360	19,376	..	— 19,376	4,49,736
Total ..	18,88,592	65,910	19,54,502	19,376	...	— 19,376	19,73,878
Grand Total ...	1,26,98,501	18,09,576	1,45,08,077	7,86,678	12,07,108	4,20,430	1,52,94,755

Remarks. G.O. No. & date.	Amount of estimate.
	Rs.
223 I., 12th June 1912.	3,73,500
167 I., 26th Mar. 1915.	6,500
275 I., 4th June 1915.	8,470
398 I., 16th Aug. 1915.	61,200
497 I., 11th Nov. 1915.	10,600
523 I., 25th Nov. 1915.	51,330
137 I., 23rd Mar. 1916.	2,000
287 I., 3rd July 1916.	9,440
521 I., 18th Nov. 1916.	31,709
47 I., 1st Feb. 1917.	47,000
262 I., 15th June 1916.	3,900
183 I., 10th May 1917.	57,702
265 I., 28th June 1917.	1,45,300
366 I., 1st Sep. 1917.	13,200
385 I., 17th Sep. 1917.	13,450
415 I., 10th Oct. 1917.)	6,049
Mis. 444 I., 25th October 1917.	2,850
Mis. 472 I., 15th November 1917.	4,240
Mis. 179 I., 26th March 1918.	2,950
Mis. 144 I., 23rd April 1918.	1,240
163 I., 14th May 1918.	17,990
Mis. 183 I., 27th May 1918.	11,640
Mis. 277 I., 28th August 1918.	2,650
Mis. 513 I., 13th December 1918.	1,37,000
Total ..	10,21,910

KISTNA DELTA SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1898).	Expenditure against closed estimate.
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
B. Land	12,732	..	12,732	12,732	12,732
C. Works	6,65,413	..	6,65,413	6,65,413	6,65,413
K. Buildings	1,02,702	..	1,02,702	1,02,725	1,02,725
O. Miscellaneous	2,971	..	2,971	2,971	2,971
Total ..	7,83,818	..	7,83,818	7,83,841	7,83,841
(2) *Main Canals and Branches*—					
A. Preliminary expenses	1,203	..	1,203	1,203	1,203
B. Land	1,00,726	9,178	1,09,904	1,09,904	1,09,904
D. Regulators	2,32,669	..	2,32,669	2,32,669	2,32,669
E. Falls and weirs	18,119	..	18,119	18,119	18,119
F. River and hill torrent works ..	4,43,712	..	4,43,712	4,42,084	4,42,084
F. (1) Other cross drainage works ..	97,904	..	97,904	99,532	99,532
G. Bridges	1,68,450	..	1,68,450	1,68,450	1,68,450
H. Escapes	84,074	54	84,128	84,128	84,128
I. Navigation works	6,61,207	..	6,61,207	6,61,192	6,61,192
K. Buildings	1,47,156	1,007	1,48,163	1,47,156	1,47,156
L. Earthwork	19,76,282	7,890	19,84,172	20,24,740	20,23,260
N. Tanks and reservoirs	1,213	..	1,213	1,218	1,213
O. Miscellaneous	1,41,537	178	1,41,715	1,41,714	1,41,714
Total ..	40,74,252	18,307	40,92,559	41,32,104	41,30,614
(3) *Distributaries*—					
A. Preliminary expenses	4,171	..	4,171	4,171	4,171
B. Land	3,65,946	116	3,66,062	3,76,863	3,58,863
C. Works	6,40,446	8,226	6,18,672	6,64,540	6,41,815
L. Earthwork	8,78,578	5,538	8,84,116	8,92,206	8,73,071
O. Miscellaneous	85,515	1,139	86,654	87,987	85,367
Total ..	19,74,656	15,019	19,89,675	20,25,767	19,63,287
(4) *Drainage and Protective Works*—					
A. Preliminary expenses	774	..	774	774	774
B. Land	1,44,764	4,511	1,49,275	1,64,178	1,25,058
C. Works	3,43,790	5,860	3,49,650	3,54,841	3,38,661
L. Earthwork	15,74,680	9,988	15,84,668	15,71,084	15,14,130
O. Miscellaneous	47,153	304	47,457	46,379	41,266
P. Maintenance	2,985	..	2,985	2,985	2,985
Total ..	21,14,146	20,663	21,34,809	21,40,241	20,22,874
(5) *Special tools and plant*	..	..	..	..	..
Provision for unforeseen works	..	..	..	..	..
Total outlay on current sanctions ..	89,46,872	53,989	90,00,861	90,81,953	89,00,616
Old outlay	30,81,755	..	30,81,755	30,81,755	30,81,755
Total, Works ..	1,20,28,627	53,989	1,20,82,616	1,21,63,708	1,19,82,371
II. ESTABLISHMENT	26,69,788	27,265	26,97,053	26,99,533	26,71,167
II. TOOLS AND PLANT	7,00,074	836	7,00,910	7,00,675	7,00,174
Grand Total ..	1,53,98,489	82,090	1,54,80,579	1,55,63,916	1,53,53,712
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	18,540	..	18,540	18,540	18,540
Net Total ..	1,53,79,949	82,090	1,54,62,039	1,55,45,376	1,53,35,172
Apportionment—					
Chargeable to 49. Irrigation	1,53,79,949	82,090	1,54,62,039	..	..
Chargeable to 43. Minor Works and Navigation—					
Imperial	..	..	..	..	..
Provincial	..	..	..	..	..
Total ..	1,53,79,949	82,090	1,54,62,039	..	

KISTNA DELTA SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
3. Sale of water ..	3,831	581	4,212
4. Water-supply of towns	55,460	..	55,460
5. Receipts from plantations	3,10,356	7,151	3,17,507
6. Receipts from other canal produce ..	5,64,455	30,860	5,95,315
7. Water power ..	831	..	831
8. Navigation receipts.	16,42,266	74,680	17,16,946
9. Rents of buildings ..	60,904	1,948	62,852
10. Fines	683	2	685
11. Miscellaneous ..	97,965	2,974	1,00,939
Total, Revenue realized in Public Works Department	27,36,751	1,18,196	28,54,947
Irrigation Revenue realized in Civil Department	9,75,78,841	33,29,101	10,09,07,942
Total, Direct Receipts ..	10,03,15,592	34,47,297	10,37,62,889
II. INDIRECT REVENUE—			
Share of land revenue collected in the Civil Department ..	74,68,653	1,34,851	76,03,504
Total, Public Works and Civil Departments Revenue	10,77,84,245	35,82,148	11,13,66,393
Total, Receipts	10,77,84,245	35,82,148	11,13,66,393

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	1,00,259	604	1,00,863
(2) Main canals and branches ..	4,07,155	2,407	4,09,562
(3) Distributaries	5,21,087	6,566	5,27,653
(4) Drainage and protective works ..	1,23,245	3,773	1,27,018
(5) Special tools and plant—	..	13,439	13,439
Total ..	11,51,746	26,789	11,78,535
II. MAINTENANCE AND REPAIRS—			
(1) Head works	7,82,856	11,953	7,94,809
(2) Main canals and branches ..	60,60,642	1,54,924	62,15,566
(3) Distributaries	7,36,332	89,772	28,26,104
(4) Drainage and protective works.	4,98,878	23,669	5,22,547
(5) Special tools and plant ..	..	29,982	29,982
Add—Unclassifiable outlay ..	9,10,934	..	9,10,934
Total ..	1,09,89,642	3,10,300	1,12,99,942
Total, Extensions and Improvements and Maintenance and Repairs ..	1,21,41,388	3,37,089	1,24,78,477
IV. ESTABLISHMENT	86,62,779	1,70,234	88,33,013
V. TOOLS AND PLANT	18,81,714	5,226	18,86,934
VI. REFUNDS OF REVENUE	23,581	922	24,503
Total, Direct Charges ..	2,27,09,462	5,13,465	2,32,22,927
Share of collection charges in the Civil Department	56,06,827	1,72,242	57,79,069
Indirect charges	13,29,921	23,985	13,53,906
Total, Direct and Indirect Charges ..	2,96,46,210	7,09,692	3,03,55,902
Balance, net revenue	7,81,38,035	28,72,456	8,10,10,491
Grand Total ..	10,77,84,245	35,82,148	11,13,66,393

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–18 ..	1,99,80,111	Net revenue realized to end of 1917–18 ..	7,81,38,035
Total interest charges for the year 1918–19 ..	5,36,928	Net revenue realized during 1918–19 ..	28,72,456
Balance, net revenue	6,04,93,452	..	..
Total ..	8,10,10,491	Total ..	8,10,10,491

DIVI PUMPING SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
3. Sale of water ..	..	..	..
4. Water-supply of towns ..	..	..	..
5. Receipts from plantations ..	333	8	341
6. Receipts from other canal produce ..	3,768	847	4,615
8. Navigation receipts ..	558	..	558
9. Rents of buildings.	1,826	368	2,194
10. Fines	..	..	..
11. Miscellaneous ..	329	98	427
Total, Revenue realized in Public Works Department	6,814	1,321	8,135
Irrigation Revenue realized in Civil Department	10,25,340	1,33,922	11,59,262
Total, Direct Receipts.	10,32,154	1,35,243	11,67,397
II. INDIRECT RECEIPTS— Share of land revenue collected in the Civil Department ..	1,19,531	23,621	1,43,152
Total, Public Works and Civil Departments, Revenue	11,51,685	1,58,864	13,10,549
Total, Receipts ..	11,51,685	1,58,864	13,10,549

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	1,613	..	1,613
(2) Main canals and branches ..	1,137	..	1,137
(3) Distributaries	4,817	1,012	5,829
(4) Drainage and protective works ..	2,473	794	3,267
(5) Special tools and plant ..	..	..	..
Total ..	10,040	1,806	11,846
II. MAINTENANCE AND REPAIRS—			
(1) Head works	4,43,664	72,146	5,15,810
(2) Main canals and branches ..	27,581	1,046	28,627
(3) Distributaries	29,773	..	29,773
(4) Drainage and protective works ..	639	23	662
(5) Special tools and plant	..	3,519	3,519
Add—Unclassifiable outlay ..	..	..	..
Total ..	5,01,656	76,734	5,78,390
Total, Extensions and Improvements and Maintenance and Repairs ..	5,11,696	78,540	5,90,236
IV. ESTABLISHMENT	1,68,786	39,663	2,08,449
V. TOOLS AND PLANT	58,614	1,216	59,830
VI. REFUNDS OF REVENUE	15	..	15
Total, Direct Charges ..	7,39,111	1,19,419	8,58,530
Share of collection charges in the Civil Department	54,694	7,008	61,702
Indirect charges	23,631	5,887	29,518
Total, Direct and Indirect Charges..	8,17,436	1,32,314	9,49,750
* *Deduct*—Old maintenance charges saved to Government	92,294	19,381	1,11,675
Net Total ..	7,25,142	1,12,933	8,38,075
Balance, net revenue ..	4,26,543	45,931	4,72,474
Grand Total ..	11,51,685	1,58,864	13,10,549

	RS.
* Direct—	
Extension and improvements	49
Maintenance and repairs	12,131
Establishment	6,151
Tools and plant	189
	18,520
Indirect	861
	19,381

No. 4.—Interest Account for and to end of 1918–1919

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–18	6,94,692	Net revenue realized to end of 1917–18	4,26,543
Total interest charges for the year 1918–19	67,298	Net revenue realized during 1918–19	45,931
		Balance net interest charge	2,89,516
Total ..	7,61,990	Total ..	7,61,990

DIVI PUMPING SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalisation of abatement of land revenue	1,822	986	2,808
Leave and pension allowances	27,888	1,154	29,042
Total ..	29,710	2,140	31,850
REVENUE—			
Capitalisation of abatement of land revenue	..	334	334
Leave and pension allowances	23,631	5,553	29,184
Total ..	23,631	5,887	29,518
Grand Total ..	53,341	8,027	61,368

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Current sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	9,86,285	23,993	10,10,278	54,234	60,451	6,217	10,64,512		
Establishment	1,87,250	4,873	1,92,123	15,321	11,475	— 3,846	2,07,444		
Tools and plant.. ..	6,71,389	2,038	6,73,427	253	59,000	58,747	6,73,680		
Deposit account ..	..	..	..	..	..	..	..		
Total ..	18,44,924	30,904	18,75,828	69,808	1,30,926	61,118	19,45,636	Total ..	
Less—Receipts on Capital Account	377	..	377	..	..	..	377		
Net Total ..	18,44,547	30,904	18,75,451	69,808	1,30,926	61,118	19,45,259	415 I., dated 14th September 1916.	*Direct*— 12,221
Indirect Charges.									
Capitalised abatement of land revenue.	379	398	777	2,031	..	— 2,031	2,808	417 I., dated 14th September 1916.	4,200
Leave and pension allowances	26,215	682	26,897	2,145	..	— 2,145	29,042	533 I., dated 17th November 1916.	19,500
Total ..	26,594	1,080	27,674	4,176	..	— 4,176	31,850	Mis. 509, I., dated 7th December 1917.	2,530
Grand Total ..	18,71,141	31,984	19,03,125	73,984	1,30,926	56,942	19,77,109	Mis. 12 I., dated 5th January 1917.	22,000
								Total ..	60,451

PENNER RIVER CANALS SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1894).	Expenditure against closed estimate.
1	2	3	4	5	6
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses	51,130	..	51,130	51,130	51,130
B. Land	18,513	..	18,513	18,513	18,513
C. Works	7,40,984	..	7,40,984	7,40,984	7,40,984
K. Buildings	24,039	..	24,039	24,039	24,039
O. Miscellaneous	32,502	..	32,502	32,502	32,502
P. Maintenance	4,105	..	4,105	4,105	4,105
Total ..	8,71,273	..	8,71,273	8,71,273	8,71,273
(2) *Main Canals and Branches*—					
A. Preliminary expenses	506	..	506	506	506
B. Land	3,87,208	2,134	3,89,342	3,87,808	3,87,208
D. Regulators	2,12,582	..	2,12,582	2,12,582	2,12,582
E. Falls and weirs	36,643	..	36,643	36,643	36,643
F. River and hill torrent works ..	1,559	..	1,559	1,559	1,559
F. (1) Other cross drainage works ..	3,594	..	3,594	3,594	3,594
G. Bridges	62,275	..	62,275	62,275	62,275
H. Escapes	17,789	..	17,789	17,789	17,789
K. Buildings	18,442	..	18,442	18,442	18,442
L. Earthwork	4,02,471	..	4,02,471	4,02,471	4,02,471
N. Tanks and reservoirs	3,74,582	..	3,74,582	3,84,632	3,74,582
O. Miscellaneous	23,942	..	23,942	23,942	23,942
P. Maintenance	22,082	..	22,082	22,082	22,082
Total ..	15,63,675	2,134	15,65,809	15,78,825	15,63,675
Reservoirs—					
B. Land	159	..	159	159	159
C. Works	38,944	..	38,944	37,498	37,498
L. Earthwork	40,176	..	40,176	40,176	40,176
O. Miscellaneous	132	..	132	132	132
Total ..	79,411	..	79,411	77,965	77,965
(3) *Distributaries*—					
A. Preliminary expenses	100	..	100	100	100
B. Land	88,248	936	89,184	95,659	90,029
C. Works	4,54,903	3,864	4,58 767	4,61,216	4,57,851
L. Earthwork	5,46,241	2,101	5,48,342	5,52,678	5,47,533
N. Tanks and reservoirs	1,15,250	..	1,15,250	1,15,250	1,15,250
O. Miscellaneous	16,981	..	16,981	19,235	17,029
P. Maintenance	9,469	..	9,469	9,469	9,469
Total ..	12,31,192	6,901	12,38,093	12,53,602	12,37,252
(4) *Drainage and Protective Works*—					
B. Land	27,998	..	27,998	26,217	26,217
C. Works	67,264	..	67,264	63,961	63,961
L. Earthwork	2,37,122	..	2,37,122	2,29,927	2,29,927
O. Miscellaneous	1,599	..	1,599	1,599	1,599
Total ..	3,33,983	..	3,33,983	3,21,704	3,21,704
(5) *Special tools and plant*—					
Total outlay on current sanctions ..	40,79,584	9,035	40,88,569	40,98,869	40,71,869
Old outlay	5,26,117	..	5,26,117	5,26,117	5,26,117
Total, Works ..	46,05,651	9,035	46,14,686	46,24,486	45,97,986
II. ESTABLISHMENT	9,55,222	1,785	9,57,007	9,59,645	9,55,088
III. TOOLS AND PLANT	1,44,158	47	1,44,205	1,44,297	1,44,158
Grand Total ..	57,05,031	10,867	57,15,898	57,28,428	56,97,232
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	2,858	..	2,858	2,858	2,858
Net Total ..	57,02,173	10,867	57,13,040	57,25,570	56,94,374
Apportionment—					
Chargeable to 49. Irrigation	57,02,173	10,867	57,13,040	..	..
Chargeable to 43. Minor Works and Navigation—					
Imperial	..	..	..	..	..
Provincial	..	..	..	..	..
Total ..	57,02,173	10,867	57,13,040	..	..

PENNER RIVER CANALS SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations ..	1,886	..	1,886
6. Receipts from other canal produce ..	64,839	2,024	66,863
9. Rents of buildings ..	7,926	524	8,450
10. Fines ..	6	..	6
11. Miscellaneous ..	2,267	..	2,267
Total, Revenue realized in Public Works Department	76,924	2,548	79,472
Irrigation revenue realized in Civil Department.	1,31,36,727	5,69,107	1,37,05,834
Total, Direct Receipts ..	1,32,13,651	5,71,655	1,37,85,306
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	17,29,547	59,660	17,89,207
Total, Public Works and Civil Departments, Revenue	1,49,43,198	6,31,315	1,55,74,513
Total, Receipts ..	1,49,43,198	6,31,315	1,55,74,513

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	12,427	896	13,323
(2) Main canals and branches ..	86,984	364	87,348
(3) Distributaries	2,35,952	1,917	2,37,869
(4) Drainage and protective works ..	21,423	..	21,423
(5) Special tools and plant ..	..	— 207	— 207
Add—Unclassifiable outlay ..	8,370	..	8,370
Total ..	3,65,156	2,970	3,68,126
II. MAINTENANCE AND REPAIRS—			
(1) Head works	3,68,214	1,890	3,70,104
(2) Main canals and branches ..	7,60,361	50,947	8,11,308
(3) Distributaries	8,63,797	7,636	8,71,433
(4) Drainage and protective works ..	55,776	..	55,776
(5) Special tools and plant ..	..	81	81
Add—Unclassifiable outlay ..	23,236	..	23,236
Total ..	20,71,384	60,554	21,31,938
III. COMPENSATION	7,390	..	7,390
Total, Extensions and Improvements and Maintenance and Repairs ..	24,43,930	63,524	25,07,454
IV. ESTABLISHMENT	13,62,009	12,554	13,74,563
V. TOOLS AND PLANT	26,727	330	27,057
VI. REFUNDS OF REVENUE	1,873	..	1,873
Total, Direct Charges ..	38,34,539	76,408	39,10,947
Share of collection charges in the Civil Department	7,72,313	30,810	8,03,123
Indirect charges	2,36,913	1,758	2,38,671
Total, Direct and Indirect Charges ..	48,43,765	1,08,976	49,52,741
* *Deduct*—Old maintenance charges saved to Government ..	17,67,792	36,487	18,04,279
Net Total ..	30,75,973	72,489	31,48,462
Balance, net revenue ..	1,18,67,225	5,58,826	1,24,26,051
Grand Total ..	1,49,43,198	6,31,315	1,55,74,513

* Direct—

	RS.
Extensions and improvements	3,909
Maintenance and repairs	25,744
Establishment	5,860
Tools and plant	154
Total ..	35,667
Indirect	820
Total, Direct and Indirect ..	36,487

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	74,84,453	Net revenue realised to end of 1917–1918 ..	1,18,67,225
Total interest charges for the year 1918–1919 ..	1,98,728	Net revenue realised during 1918–1919	5,58,826
Balance, net revenue	47,42,870		
Total ..	1,24,26,051	Total ..	1,24,26,051

PENNER RIVER CANALS SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	8,56,767	..	8,56,767
Leave and pension allowances	1,56,046	250	1,56,296
Total ..	10,12,813	250	10,13,063
REVENUE—			
Capitalization of abatement of land revenue	32,761	..	32,761
Leave and pension allowances	2,04,152	1,758	2,05,910
Total ..	2,36,913	1,758	2,38,671
Grand Total ..	12,49,726	2,008	12,51,734

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	37,49,097	8,48,889	45,97,986	16,700	26,500	9,800	46,14,686		
Establishment	8,05,532	1,49,556	9,55,088	1,919	4,557	2,638	9,57,007		
Tools and plant ..	1,42,971	1,187	1,44,158	47	139	92	1,44,205		
Suspense account ..	..	..	..	..	..	..	..	308 I., 18th July 1916.	2,050
Total ..	46,97,600	9,99,632	56,97,232	18,666	31,196	12,530	57,15,898	416 I., 14th Sep. 1916.	10,500
Less—Receipts on Capital Account	55	2,803	2,858	..	..	..	2,858	Mis. 299 I., 20th July 1917.	2,150
Net Total ..	46,97,545	9,96,829	56,94,374	18,666	31,196	12,530	57,13,040	Mis. 382 I., 12th Sep. 1917.	2,460
Indirect Charges.									
Capitalized abatement of land revenue ..	7,99,748	57,019	8,56,767	..	..	..	8,56,767	Mis. 171 I., 16th May 1918.	8,000
Leave and pension allowances	1,35,090	20,935	1,56,025	271	..	— 271	1,56,296	Mis. 81 I., 26th March 1919.	1,280
Total ..	9,34,838	77,954	10,12,792	271	..	— 271	10,13,063		
Grand Total ..	56,32,383	10,74,783	67,07,166	18,937	31,196	12,259	67,26,103	Total ..	26,500

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KURNOOL-CUDDAPAH CANAL—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
Purchase value	1,77,82,139	..	1,77,82,139	1,77,82,139	1,77,82,139
B. Land	661	..	661	248	..
C. Works	18,544	1	18,545	17,268	..
K. Buildings	3,700	..	3,700	3,706	..
L. Earthwork	352	..	352	185	..
O. Miscellaneous	3,802	..	3,802	4,552	..
P. Maintenance	200	..	200	225	..
Unforeseen works	..	..	..	..	..
Total ..	1,78,09,398	1	1,78,09,399	1,78,08,323	1,77,82,139
(2) *Main Canals and Branches*—					
A. Preliminary expenses	2,341	..	2,341	2,298	..
B. Land	28,556	..	28,556	24,392	42
D. Regulators	10,428	52,097	62,525	96,186	8,386
E. Falls and weirs	20,483	..	20,483	16,952	..
F. River and Hill torrent work ..	4,185	..	4,185	..	..
F. (1) Other cross drainage works ..	1,55,345	3,133	1,58,478	2,22,559	1,993
G. Bridges	28,322	121	28,443	37,796	..
H. Escapes	..	9,710	9,710	19,530	..
K. Buildings	12,099	..	12,099	12,088	4,710
L. Earthwork	2,32,401	9,321	2,41,722	2,57,088	29,087
M. Plantation	..	..	..	..	..
N. Tanks and reservoirs	1,076	..	1,076	..	..
O. Miscellaneous	30,674	131	30,805	30,482	15,462
P. Maintenance	2,793	..	2,793	3,000	..
Total ..	5,28,703	74,513	6,03,216	7,22,366	59,680
(3) *Distributaries*—					
A. Preliminary expenses	205	..	205		
B. Land	39,669	..	39,669		
C. Works	2,50,029	26,412	2,76,441		
F. (1) Other cross drainage works ..	629	..	629	5,91,587	1,09,020
L. Earthwork	2,22,519	1,144	2,23,663		
O. Miscellaneous	5,699	411	6,110		
P. Maintenance	337	..	337		
Unforeseen works	..	..	..		
Total ..	5,19,087	27,967	5,47,054	5,91,587	1,09,020
(5) *Special tools and plant*—					
Provision for unforeseen works	..	— 257	— 257	18,077	..
Total, Works ..	1,88,57,188	1,02,224	1,89,59,412	1,91,40,353	1,79,50,839
II. ESTABLISHMENT	2,21,784	65,604	2,87,388	2,79,140	37,961
III. TOOLS AND PLANT	694	1,045	1,739	12,908	..
Loss by exchange	40,80,918	..	40,80,918	40,80,918	40,80,918
Grand Total ..	2,31,60,584	1,68,873	2,33,29,457	2,35,13,319	2,20,69,718
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	2,26,747	5,230	2,31,977	2,26,747	2,26,747
Net Total ..	2,29,33,837	1,63,643	2,30,97,480	2,32,86,572	2,18,42,971
Apportionment—					
Chargeable to 49. Irrigation	2,18,63,673	— 53	2,18,63,620	..	..
,, to 48. Minor Works and Navigation—					
Imperial	..	..	..	..	..
Provincial	10,32,742	1,63,696	11,96,438	..	..
Chargeable to 33. Famine Relief—					
Imperial	37,723	..	37,723	..	..
Provincial	— 301	..	— 301	..	..
Total ..	2,29,33,837	1,63,643	2,30,97,480	..	..

KURNOOL-CUDDAPAH CANAL—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
1. Water-rates from irrigation ..	35,98,514	..	35,98,514
3. Sale of water ..	93	..	93
4. Water-supply of towns	63,982	658	64,640
5. Receipts from plantations	20,281	635	20,916
6. Receipts from other canal produce ..	1,29,792	4,846	1,34,638
8. Navigation receipts.	75,545	1,348	76,893
9. Rents of buildings..	26,374	1,578	27,952
10. Fines	72	..	72
11. Miscellaneous ..	73,388	3,807	77,195
Total, Revenue realized in Public Works Department ..	39,88,041	12,872	40,00,913
Irrigation Revenue realized in Civil Department	22,58,043	2,86,808	25,44,851
Total, Direct Receipts ..	62,46,084	2,99,680	65,45,764
II. INDIRECT RECEIPTS— Share of land revenue collected in the Civil Department ..	15,485	1,833	17,318
Total, Public Works and Civil Departments, Revenue ..	62,61,569	3,01,513	65,63,082
Total, Receipts ..	62,61,569	3,01,513	65,63,082

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	46,052	..	46,052
(2) Main canals and branches ..	2,77,673	42,886	3,20,559
(3) Distributaries	70,074	3,486	73,560
(4) Drainage and protective works ..	13,251	..	13,251
(5) Special tools and plant ..	..	— 6	— 6
Add—Unclassifiable outlay	565	..	565
Total ..	4,07,615	46,365	4,53,980
II. MAINTENANCE AND REPAIRS—			
(1) Head works	1,95,866	4,615	2,00,481
(2) Main canals and branches ..	23,72,006	78,684	24,50,690
(3) Distributaries	3,33,362	1,203	3,34,565
(4) Drainage and protective works..	20,108	..	20,108
(5) Special tools and plant ..	..	1,353	1,353
Add—Unclassifiable outlay ..	11,150	..	11,150
Total ..	29,32,492	85,855	30,18,347
Total, Extensions and Improvements and Maintenance and Repairs ..	33,40,107	1,32,223	34,72,330
IV. ESTABLISHMENT	11,58,808	86,179	12,44,987
V. TOOLS AND PLANT	1,04,123	1,353	1,05,476
VI. REFUNDS OF REVENUE.. ..	14,240	128	14,368
Total, Direct Charges ..	46,17,278	2,19,883	48,37,161
Share of collection charges in the Civil Department	1,23,562	14,430	1,37,992
Indirect Charges	1,68,096	12,242	1,80,338
Total, Direct and Indirect Charges ..	49,08,936	2,46,555	51,55,491
Deduct old maintenance charges saved to Government *	7,835	5,241	13,076
Net total ..	49,01,101	2,41,314	51,42,415
Balance, net revenue ..	13,60,468	60,199	14,20,667
Grand Total ..	62,61,569	3,01,513	65,63,082

* Direct—

	RS.
Extensions and improvements	232
Maintenance and repairs	2,757
Establishment	1,948
Tools and plant	31
Total ..	4,968
Indirect	273
Total, Direct and Indirect ..	5,241

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1918–1919 ..	2,97,57,296	Net revenue realized to end of 1917–1918 ..	13,60,468
Total interest charges for the year 1918–1919 ..	8,01,359	Net revenue realized during 1918–1919 ..	60,199
		Balance net interest charges	2,91,97,988
Total ..	3,05,58,655	Total ..	3,05,58,655

KURNOOL-CUDDAPAH CANAL—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalisation of abatement of land revenue	19,983	..	19,983
Leave and pension allowances	31,068	9,185	40,253
Total ..	51,051	9,185	60,236
REVENUE—			
Capitalisation of abatement of land revenue	5,433	178	5,611
Leave and pension allowances	1,62,663	12,064	1,74,727
Total ..	1,68,096	12,242	1,80,338
Grand Total ..	2,19,147	21,427	2,40,574

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Current sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	*Direct Charges.*	RS.
Works	1,77,82,139	1,68,700	1,79,50,839	10,08,573	11,89,514	1,80,941	1,89,59,412		
Establishment ..	..	37,961	37,961	2,49,427	2,41,179	— 8,248	2,87,388	851 I., 8th Oct. 1900.	2,32,200
Tools and plant ..	..	..	..	1,739	12,908	11,169	1,739		
Suspense account ..	..	..	..	..	..	..	..		
Loss by exchange ..	40,30,918	..	40,30,918	..	..	..	40,30,918		
Total ..	2,18,63,057	2,06,661	2,20,69,718	12,59,739	14,43,601	1,83,862	2,33,29,457		
Less Receipts on Capital Account.	2,24,115	2,632	2,26,747	5,230	..	— 5,230	2,31,977	487 I., 21st Nov. 1916.	7,42,514
								156 I., 10th April 1916.	80,000
								488 I., 1st Nov. 1916.	47,000
								17 I., 8th Jan. 1918.	25,800
								2 I., 7th Jan. 1919.	62,000
Net Total ..	2,16,38,942	2,04,029	2,18,42,971	12,54,509	14,43,601	1,89,092	2,30,97,480	Total ..	11,89,514
Indirect Charges.								*Indirect Charges.*	
								851 I., 8th Oct. 1900.	23,000
								487 I., 21st Nov. 1916.	42,096
Capitalisation of abatement of land revenue.	..	2,377	2,377	17,606	41,098	23,492	19,983	156 I., 10th April 1916.	5,278
Leave and pension allowances.	..	5,333	5,333	34,920	29,276	— 5,644	40,253	Total ..	70,374
Total ..	..	7,710	7,710	52,526	70,374	17,848	60,236		
Grand Total ..	2,16,38,942	2,11,739	2,18,50,681	13,07,035	15,13,975	2,06,940	2,31,57,716		

BARUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1917–1918.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1891).	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses	739	...	739	739	739
B. Land	11,573	...	11,573	11,573	11,573
C. Works	23,817	...	23,817	23,817	23,817
K. Buildings	4,621	...	4,621	4,621	4,621
O. Miscellaneous	4,568	...	4,568	4,568	4,568
P. Maintenance	355		355	355	355
Total ...	45,673	...	45,673	45,673	45,673
(2) *Main Canals and Branches*—					
B. Land	296	...	296	296	296
C. Works	2,323	...	2,323	2,323	2,323
D. Regulators	24,620	...	24,620	24,620	24,620
E. Falls and Weirs	...	...	...	...	...
F. (1) Other cross drainage works ...	4,053	...	4,053	4,053	4,053
G. Bridges	5,270	...	5,270	5,270	5,270
L. Earthwork	82,550	...	82,550	82,550	82,550
N. Tanks and reservoirs	1,879	...	1,879	1,879	1,879
O. Miscellaneous	4,684	...	4,684	4,684	4,684
Total ...	1,25,675	...	1,25,675	1,25,675	1,25,675
(2-A) *Reservoirs*—					
C. Works	2,949	...	2,949	2,949	2,949
L. Earthwork	66,826	...	66,826	66,826	66,826
Total ...	69,775	...	69,775	69,775	69,775
(3) *Distributaries*—					
B. Land	897	...	897	897	897
C. Works	40,088	...	40,038	40,038	40,038
L. Earthwork	53,279	...	53,279	53,279	53,279
N. Tanks and reservoirs	428	...	428	428	428
Total ...	94,642	...	94,642	94,642	94,642
(5) Special tools and plant	...	...	...	...	...
Provision for unforeseen works	...	...	...	...	...
Total, Works ...	3,35,765	...	3,35,765	3,35,765	3,35,765
II. ESTABLISHMENT	76,701	...	76,701	76,701	76,701
III. TOOLS AND PLANT	6,931	...	6,931	6,931	6,931
Grand Total ...	4,19,397	...	4,19,397	4,19,397	4,19,397
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ...	22	...	22	22	22
(*a*) Net Total ...	4,19,375	...	4,19,375	4,19,375	4,19,375

	Rs.
(*a*) Chargeable to 49. Irrigation	4,02,176
Do. to 43. Minor Works and Navigation—Provincial	17,199
	4,19,375

BARUR TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.	Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
4. Receipts from plantations ..	41	..	41	(1) Head works	4,441	..	4,441
				(2) Main canals and branches ..	16,326	233	16,559
8. Receipts from other canal produce ..	3,823	1,372	5,195	(3) Distributaries	2,561	..	2,561
				(4) Drainage and protective works.	1,661	..	1,661
9. Rents of buildings.	336	29	365	(5) Special tools and plant ..	..	..	..
				Total ..	24,989	233	25,222
41. Miscellaneous ..	1,402	287	1,689	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	17,824	..	17,824
Total, Revenue realised in Public Works Department ..	5,602	1,688	7,290	(2) Main canals and branches ..	83,046	5,067	88,113
				(3) Distributaries	10,068	..	10,068
Irrigation Revenue realised in Civil Department ..	3,81,524	5,069	3,86,593	(4) Drainage and protective works.	666	..	666
				(5) Special tools and plant ..	..	..	..
				Total ..	1,11,604	5,067	1,16,671
Total, Direct Receipts ..	3,87,126	6,757	3,93,883	Total, Extensions and Improvements and Maintenance and Repairs ..	1,36,593	5 300	1,41,893
II. INDIRECT RECEIPTS—				IV. ESTABLISHMENT	53,018	1,750	54,768
Share of land revenue collected in the Civil Department ..	6,968	471	7,439	V. TOOLS AND PLANT	234	40	274
				VI. REFUNDS OF REVENUE	53	..	53
Total, Public Works and Civil Departments, Revenue ..	3,94,094	7,228	4,01,322	Total, Direct Charges ..	1,89,898	7,090	1,96,988
				Share of collection charges in the Civil Department	19,136	255	19,391
				Indirect charges	7,553	245	7,798
				Total, Direct and Indirect Charges.	2,16,587	7,590	2,24,177
				Balance, net revenue	1,77,507	— 362	1,77,145
Total, Receipts ..	3,94,094	7,228	4,01,322	Grand Total ..	3,94,094	7,228	4,01,322

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	4,92,983	Net revenue realised to end of 1917–1918 ..	1,77,507
Total interest charges for the year 1918–1919 ..	14,602	Net revenue realised during 1918–1919	— 562
		Balance net interest charges	3,30,440
Total ..	5,07,585	Total ..	5,07,585

BARUR TANK—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	12,000	..	12,000
Leave and pension allowances	10,738	..	10,738
Total ..	22,738	..	22,738
REVENUE—			
Capitalization of abatement of land revenue	130	..	130
Leave and pension allowances	7,423	245	7,668
Total ..	7,553	245	7,798
Grand Total ..	31,291	245	31,536

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		
Direct charges.	RS.	RS.	RS.				RS.	
Works	3,11,681	24,084	3,35,765	..	..	..	3,35,765	
Establishment	71,683	5,018	76,701	..	..	..	76,701	
Tools and plant ..	6,883	48	6,931	..	..	..	6,931	
Suspense account ..	..	..	..	..	..	..	..	
Total ..	3,90,247	29,150	4,19,397	..	..	..	4,19,397	
Less—Receipts on capital account	22	..	22	..	..	..	22	
Net Total ..	3,90,225	29,150	4,19,375	..	..	..	4,19,375	
Indirect charges.								
Capitalized abatement of land revenue	12,056	944	13,000	..	..	..	13,000	
Leave and pension allowances	10,036	702	10,738	..	..	..	10,738	
Total ..	22,092	1,646	23,738	..	..	..	23,738	
Grand Total ..	4,12,317	30,796	4,43,113	..	..	..	4,43,113	

POINEY ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed in 1897).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
I. WORKS—	Rs.	Rs.	Rs.	Rs.	Rs.
(1) *Head Works*—					
C. Works	52,619	...	52,619	67,997	52,597
Total ...	52,619	...	52,619	67,997	52,597
(2) *Main Canals and Branches*—					
B. Land	...	...	...	500	...
D. Regulators	1,596	...	1,596	1,596	1,596
E. Falls and weirs	..	...	...	390	.
F. River and hill torrent works ..		...	...	3,270	...
K. Buildings	3,636	...	3,636	3,636	3,636
L. Earthwork	1,23,859	2,869	1,26,728	1,31,874	1,22,874
N. Tanks and reservoirs	6,368	...	6,368	6,368	6,368
Total ...	1,35,459	2,869	1,38,328	1,47,634	1,34,474
(3) *Distributaries*—					
B. Land	...	...	...	...	...
C. Works	6,367	2,178	8,545	8,567	6,367
L. Earthwork	...	...	...	...	...
Total ...	6,367	2,178	8,545	8,567	6,367
(5) Special tools and plant	...	...	...	..	...
Total, Works ...	1,94,445	5,047	1,99,492	2,24,198	1,93,438
II. ESTABLISHMENT	44,596	1,955	46,551	48,892	44,383
III. TOOLS AND PLANT	38	73	111	235	38
Grand Total ...	2,39,079	7,075	2,46,154	2,73,325	2,37,859
Apportionment—					
Chargeable to 49. Irrigation ...	8,312	7,075	15,387	...	...
Do. to 43. Irrigation—Provincial.	2,30,767	...	2,30,767	...	...
Total ...	2,39,079	7,075	2,46,154	...	...

POINEY ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
Receipts from plantations.	..	616	616
6. Receipts from other canal produce ..	8,336	..	8,336
9. Rents of buildings.	329	14	343
11. Miscellaneous ..	4,532	..	4,532
Total, Revenue realized in Public Works Department	13,197	630	13,827
Irrigation Revenue realised in Civil Department ..	21,34,157	— 16,181	21,17,976
Total, Direct Receipts ..	21,47,354	— 15,551	21,31,803
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department ..	2,58,368	5,451	2,63,819
Total, Public Works and Civil Departments, Revenue ..	24,05,722	— 10,100	23,95,622
Total, Receipts ..	24,05,722	— 10,100	23,95,622

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	4,974	184	5,158
(2) Main canals and branches ..	22,093	..	22,093
(3) Distributaries	33,187	2,319	35,506
(4) Drainage and protective works ..	49,029	..	49,029
(5) Special tools and plant ..	..	..	..
Total ..	1,09,283	2,503	1,11,786
II. MAINTENANCE AND REPAIRS—			
(1) Head works	60,459	719	61,178
(2) Main canals and branches ..	72,850	928	73,778
(3) Distributaries	1,48,114	9,357	1,57,471
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	2,76,594	..	2,76,594
Total ..	5,58,017	11,004	5,69,021
Total, Extensions and Improvements and Maintenance and Repairs	6,67,300	13,507	6,80,807
IV. ESTABLISHMENT	1,91,183	5,232	1,96,365
V. TOOLS AND PLANT	328	196	524
VI. REFUNDS OF REVENUE	461	..	461
Total, Direct Charges ..	8,59,222	18,935	8,78,157
Share of collection charges in the Civil Department	1,19,586	— 538	1,19,048
Indirect charges	27,161	732	27,893
Total, Direct and Indirect Charges ..	10,05,969	19,129	10,25,098
Deduct—Old maintenance charges saved to Government	23,665	4,547	28,212
Net Total ..	9,82,304	14,582	9,96,886
Balance, net revenue	14,23,418	— 24,682	13,98,736
Grand Total ..	24,05,722	— 10,100	23,95,622

* Direct—

	RS.
Extensions and improvements	3,057
Maintenance and repairs	66
Establishment	1,210
Tools and plant	45
	4,378
Indirect	169
Total ..	4,547

POINEY ANICUT SYSTEM—*Canal Project.*

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	4,28,189	Net revenue realized to end of 1917–1918 ..	14,28,418
Total interest charges for the year 1918–1919 ..	8,448	Net revenue during 1918–1919	— 24,682
Balance, net revenue	9,62,099		
Total ..	13,98,736	Total ..	13,98,736

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
Current—			
Capitalization of abatement of land revenue..	165	..	165
Leave and pension allowances	6,244	274	6,518
Total ..	6,409	274	6,683
Remote—			
Capitalization of abatement of land revenue..	403	..	403
Leave and pension allowances	26,758	732	27,490
Total ..	27,161	732	27,893
Grand Total ..	33,570	1,006	34,576

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	1,83,435	10,003	1,93,438	6,054	30,760	24,706	1,99,492	412 I., 13th Sep. 1916.	15,400
Establishment	42,189	2,194	44,383	2,168	4,509	2,341	46,551	322 I., 1st Aug. 1917.	2,200
Tools and plant ..	..	38	38	73	197	124	111	431 I., 18th Dec. 1918.	13,160
Suspense account ..	..	..	..	..	..	..	..	Mis.	
Total ..	2,25,624	12,235	2,37,859	8,295	35,466	27,171	2,46,154	Total ..	30,760
Less—Receipts on capital account	..		..	..	..	..	..		
Net Total ..	2,25,624	12,235	2,37,859	8,295	35,466	27,171	2,46,154		
Indirect Charges.									
Capitalization of abatement of land revenue	165	..	165	..	..	..	165		
Leave and pension allowances	5,907	307	6,214	304	..	— 304	6,518		
Total ..	6,072	307	6,379	304	..	— 304	6,683		
Grand Total ..	2,31,696	12,542	2,44,238	8,599	35,466	26,867	2,52,837		

CHEYERU ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1896).	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs	Rs.
I. WORKS—					
(1) *Head Works*—					
C. Works	56,860	...	56,860	56,860	56,860
Total ...	56,860	...	56,860	56,860	56,860
(2) *Main Canals and Branches*—					
A. Preliminary expenses	542	...	542	542	542
B. Land	443	...	443	443	443
D. Regulators	9,586	...	9,586	9,586	9,586
F. River and hill torrent works ...	498	...	498	498	498
F. (1) Other cross drainage works ...	7,099	...	7,099	7,099	7,099
G. Bridges	11,934	...	11,934	11,934	11,934
K. Buildings	5,456	...	5,456	5,456	5,456
L. Earthwork	2,17,214	...	1,17,214	2,17,214	2,17,214
N. Tanks and reservoirs	29,756	...	29,756	29,756	29,756
O. Miscellaneous	2,098	...	2,098	2,098	2,098
Total ...	2,84,626	...	2,84,626	2,84,626	2,84,626
(3) *Distributaries*—					
C. Works	5,573	..	5,573	8,593	5,573
L. Earthwork	...	...	...	10,810	...
O. Miscellaneous	...	...	...	170	...
Total ...	5,573	...	5,573	19,573	5,573
(5) Special tools and plant	...	...	...	...	
Provision for unforeseen works	...	...	...	...	...
Total, Works ...	3,47,059	...	3,47,059	3,61,059	3,47,059
II. ESTABLISHMENT	78,646	...	78,646	81,866	78,646
III. TOOLS AND PLANT	...	...	...	...	...
Grand Total ...	4,25,705	...	4,25,705	4,42,925	4,25,705
Apportionment—					
Chargeable to 49. Irrigation	26,789	...	26,789	...	...
Do. 43. Irrigation—Provincial ...	3,98,916	...	3,98,916	...	...
Total ...	4,25,705	...	4,25,705	...	...

CHEYERU ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.	Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
2. OTHER RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
Receipts from plantation	..	1,856	1,856	(1) Head works	9,066	197	9,263
3. Receipts from other canal produce ..	9,505	..	9,505	(2) Main canals and branches ..	18,262	1,414	19,676
4. Rents of buildings ..	655	46	701	(3) Distributaries	60,091	5,040	65,131
11. Miscellaneous ..	8,132	..	8,132	(4) Drainage and protective works ..	1,919	..	1,919
Total, Revenue realized in Public Works Department ..	18,292	1,902	20,194	(5) Special tools and plant ..	..	..	..
Irrigation Revenue realised in Civil Department ..	18,08,156	42,087	18,50,243	*Add*—Unclassifiable outlay ..	39,441	..	39,441
Total, Direct Receipts.	18,26,448	43,989	18,70,437	Total ..	1,28,779	6,651	1,35,430
B. INDIRECT RECEIPTS—				II. MAINTENANCE AND REPAIRS—			
Share of Land Revenue collected in the Civil Department ..	1,85,590	3,314	1,88,904	(1) Head works	30,298	1,452	31,750
Total, Public Works and Civil Departments, Revenue ..	20,12,038	47,303	20,59,341	(2) Main canals and branches ..	98,669	2,972	1,01,641
				(3) Distributaries	3,35,926	27,329	3,63,255
				(4) Drainage and protective works ..	13,489	..	13,489
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	2,78,001	..	2,78,001
				Total ..	7,56,383	31,753	7,88,136
				Total, Extensions and Improvements and Maintenance and Repairs	8,85,162	38,404	9,23,566
				IV. ESTABLISHMENT	2,36,503	14,876	2,51,379
				V. TOOLS AND PLANT	588	556	1,144
				VI. REFUNDS OF REVENUE	832	..	832
				Total, Direct Charges ..	11,23,085	53,836	11,76,921
				Share of collection charges in the Civil Department	99,675	2,269	1,01,944
				Indirect charges	33,109	2,083	35,192
				Total, Direct and Indirect Charges.	12,55,869	58,188	13,14,057
				* *Deduct* old maintenance charges saved to Government	24,294	4,668	28,962
				Net Total ..	12,31,575	53,520	12,85,095
				Balance, net revenue	7,80,463	−6,217	7,74,246
Total, Receipts ..	20,12,038	47,303	20,59,341	Grand Total ..	20,12,038	47,303	20,59,341

* Direct—	RS.
Extensions and improvements	2,566
Maintenance and repairs	640
Establishment	1,242
Tools and plant	46
	4,494
Indirect	174
Total ..	4,668

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–18 ..	6,29,959	Net revenue realized to end of 1917–18 ..	7,80,463
Total interest charges for the year 1918–19 ..	14,822	Net revenue realized during 1918–19	— 6,217
Balance net revenue	1,29,465		
Total ..	7,74,246	Total ..	7,74,246

CHEYERU ANICUT SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	744	..	744
Leave and pension allowances	11,010	..	11,010
Total ..	11,754	..	11,754
REVENUE—			
Leave and pension allowances	33,109	2,083	35,192
Total ..	33,109	2,083	35,192
Grand Total ..	44,863	2,083	46,946

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate
Direct charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	3,20,865	26,194	3,47,059	..	14,000	14,000	3,47,059		
Establishment	73,542	5,104	78,646	..	3,220	3,220	78,646		
Tools and plant ..	..	..	..	..	..	..	..		
Suspense account ..	..	..		..	..	..	..	382 I., 12th June 1918.	14,60
Total ..	3,94,407	31,298	4,25,705	..	17,220	17,220	4,25,705		
Less—Receipts on capital account	..	..	..	..	..	..	..		
Net total ..	3,94,407	31,298	4,25,705	..	17,220	17,220	4,25,705		
Indirect charges.									
Capitalized abatement of land revenue	744	..	744	..	..	..	744		
Leave and pension allowances	10,296	714	11,010	..	..	..	11,010		
Total ..	11,040	714	11,754	..	..	..	11,754		
Grand Total ..	4,05,447	32,012	4,37,459	..	17,220	17,220	4,37,459		

TIRUKKŌYILUR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed in March 1895).	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
	Rs.	Rs.	Rs.	Rs.	Rs.
I. Works—					
(1) *Head Works*—					
C. Works	1,23,263	...	1,23,263	1,23,263	1,23,263
Total ...	1,23,263	...	1,23,263	1,23,263	1,23,263
(2) *Main Canals and Branches*—					
B. Land	7,327	...	7,327	7,327	7,327
D. Regulators	9,304	...	9,304	9,304	9,304
E. Falls and weirs	12,786	...	12,786	12,786	12,786
F. River and hill torrent works ...	...	...	...	...	...
F. (1) Other cross drainage works ...	8,577	...	8,577	8,577	8,577
G. Bridges	1,453	...	1,453	1,453	1,453
H. Escapes	1,378	...	1,378	1,378	1,378
K. Buildings	1,970	...	1,970	1,970	1,970
L. Earthwork	1,06,858	...	1,06,858	1,06,858	1,06,858
N. Tanks and reservoirs	13,542	...	13,542	13,542	13,542
O. Miscellaneous	4,920	...	4,920	4,920	4,920
Total ...	1,68,115	...	1,68,115	1,68,115	1,68,115
(3) *Distributaries*—					
C. Works	8,904	...	8,904	8,904	8,904
L. Earthwork	1,588	...	1,588	1,588	1,588
O. Miscellaneous	...	...	...	...	...
Total ..	10,492	...	10,492	10,492	10,492
(5) Special tools and plant	...	..	..	...	...
Total, Works ..	3,01,870	..	3,01,870	3,01,870	3,01,870
II. ESTABLISHMENT	64,889	...	64,889	64,889	64,889
III. TOOLS AND PLANT	.	...	...	...	...
Grand Total ...	3,66,759	...	3,66,759	3,66,759	3,66,759
Apportionment chargeable to 49. Irrigation.	33,500	...	33,500	...	...
Apportionment chargeable to 43. Irrigation—Provincial	3,33,259	...	3,33,259	..	...
	3,66,759	...	3,66,759	...	...

TIRUKKŌYILŪR ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1917–1918.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations	19,805	1,006	20,811
6. Receipts from other canal produce ..	5,082	25	5,107
9. Rents of buildings ..	501	35	536
11. Miscellaneous ..	525	34	559
Total, Revenue realized in Public Works Department ..	25,913	1,100	27,013
Irrigation Revenue realized in Civil Department ..	15,40,946	36,123	15,77,069
Total, Direct Receipts ..	15,63,859	37,223	16,04,082
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department ..	1,47,926	3,362	1,51,288
Total, Public Works and Civil Departments, Revenue.	17,14,785	40,585	17,55,370
Total, Receipts ..	17,14,785	40,585	17,55,370

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	4,275	..	4,275
(2) Main canals and branches ..	38,149	1,877	40,026
(3) Distributaries	50,216	106	50,322
(4) Drainage and protective works ..	20,015	..	20,015
(5) Special tools and plants ..	..	..	..
Total ..	1,12,655	1,983	1,14,638
II. MAINTENANCE AND REPAIRS—			
(1) Head works	52,107	2,021	54,128
(2) Main canals and branches ..	1,85,555	16,767	2,02,322
(3) Distributaries	1,12,876	872	1,13,748
(4) Drainage and protective works ..	8,680	..	8,680
(5) Special tools and plants ..	..	..	..
Add—Unclassifiable outlay ..	1,95,063	..	1,95,063
Total ..	5,54,281	19,660	5,73,941
Total, Extensions and Improvements and Maintenance and Repairs ..	6,66,936	21,643	6,88,579
IV. ESTABLISHMENT	1,83,256	8,383	1,91,639
V. TOOLS AND PLANT	263	313	576
VI. REFUNDS OF REVENUE	303	..	303
Total, Direct Charges ..	8,50,758	30,339	8,81,097
Share of collection charges in the Civil Department	84,444	1,974	86,418
Indirect Charges	25,946	1,174	27,120
Total, Direct and Indirect Charges.	9,61,148	33,487	9,94,635
* *Deduct*—Old maintenance charges saved to Government ..	37,370	7,180	44,550
Net Total ..	9,23,778	26,307	9,50,085
Balance, net revenue	7,91,007	14,278	8,05,285
Grand Total ..	17,14,785	40,585	17,55,370

* Direct—

	RS.
Extensions and improvements ..	1,972
Maintenance and repairs ..	2,960
Establishment ..	1,910
Tools and plant ..	71
Total ..	6,913
Indirect ..	267
Total, Direct and Indirect ..	7,180

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	4,85,120	Net revenue realized to end of 1917–1918 ..	7,91,007
Total interest charges for the year 1918–1919 ..	12,770	Net revenue realized during 1918–1919 ..	14,278
Balance, net revenue	3,07,395		
Total ..	8,05,285	Total ..	8,05,285

TIRUKKŌYILŪR ANICUT SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of Land Revenue ..	105	..	105
Leave and pension allowances	9,084	..	9,084
Total ..	9,189	..	9,189
REVENUE—			
Capitalization of abatement of Land Revenue ..	290	..	290
Leave and pension allowances	25,656	1,174	26,830
Total ..	25,946	1,174	27,120
Grand Total ..	35,135	1,174	36,309

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.	RS	RS.	RS.				RS.		
Works	2,01,591	1,00,279	3,01,870	..	..	..	3,01,879		
Establishment	46,361	18,528	64,889	..	..	..	64,889		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	.	..	..	..	..	..	..		
Total ..	2,47,952	1,18,807	3,66,759	..	..	..	3,66,759		
Less—Receipts on Capital Account	..	..	..	..	..	..	..		
Net Total ..	2,47,952	1,18,807	3,66,759	..	..	..	3,66,759		
Indirect Charges.									
Capitalized abatement of Land Revenue	28	77	105	..	..	..	105		
Leave and pension allowances ..	6,490	2,594	9,084	..	..	..	9,084		
Total ..	6,518	2,671	9,189	..	..	..	9,189		
Grand Total ..	2,54,470	1,21,478	3,75,948	..	[illegible]	..	3,75,948		

TAMIL NADU ARCHIVES

SHATIATOPE ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated. (closed in 31st March 1895).	Expenditure against closed estimate.
	RS.		RS.	RS.	RS.
WORKS—					
(1) *Head Works*—					
C. Works	2,31,572	...	2,31,572	2,31,572	2,31,572
K. Buildings	4,819	...	4,819	4,819	4,819
Total ...	2,36,391	...	2,36,391	2,36,391	2,36,391
(2) *Main Canal and Branches*—					
A. Preliminary expenses—old outlay	4,420	...	4,420	4,420	4,420
B. Land	1,40,970	...	1,40,970	1,40,970	1,40,970
D. Regulators	52,334	...	52,334	52,334	52,334
E. Falls and weirs	82,248	...	82,248	82,248	82,248
F. River and hill torrent works	17,625	...	17,625	17,625	17,625
G. Bridges	30,975	...	30,975	30,975	30,975
H. Escapes	2,599	...	2,599	2,599	2,599
I. Navigation works ...	11,236	...	11,236	11,236	11,236
K. Buildings	8,176	...	8,176	8,176	8,176
L. Earthwork	1,73,253	...	1,73,253	1,73,253	1,73,253
N. Tanks and reservoirs ...	13,196	...	13,196	13,196	13,196
O. Miscellaneous	4,950	...	4,950	4,950	4,950
Total ...	5,41,982	...	5,41,982	5,41,982	5,41,982
(3) *Distributaries*—					
B. Land	1,770	...	1,770	1,770	1,770
C. Works	20,439	...	20,439	20,439	20,439
L. Earthwork	6,512	...	6,512	6,512	6,512
O. Miscellaneous	3,312	...	3,312	3,312	3,312
Total ...	32,033	...	32,033	32,033	32,033
	...	...	...	..	...
(5) *Special Tools and Plant*—					
Total, Works ...	8,10,406	...	8,10,406	8,10,406	8,10,406
II. ESTABLISHMENT	1,04,724	...	1,04,724	1,04,724	1,04,724
III. TOOLS AND PLANT	115	...	115	115	115
Grand Total ...	9,15,245	...	9,15,245	9,15,245	9,15,245
Apportionment—					
Chargeable to 49. Irrigation ...	5,03,811	...	5,03,811	...	...
Do. 43. do. Provincial	4,07,014	...	4,07,014	...	...
Chargeable to 35. Provincial—Irrigation Works—Imperial.	4,420	...	4,420	...	...
	9,15,245	...	9,15,245	...	...

SHATIATOPE ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.	Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—							
5. Receipts from plantations	10,389	655	11,044	I. EXTENSIONS AND IMPROVEMENTS—			
				(1) Head works	3,784	..	3,784
				(2) Main canals and branches ..	26,471	1,565	28,036
6. Receipts from other canal produce ..	3,580	14	3,594	(3) Distributaries	24,481	..	24,481
				(4) Drainage and protective works ..	158	..	158
				(5) Special tools and plant	..	..	..
9. Rents of buildings ..	504	68	572	*Add*—Unclassifiable outlay	21,316	..	21,316
10. Fines	4	..	4	Total ..	76,210	1,565	77,775
11. Miscellaneous ..	189	1	190	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	64,622	5,831	70,453
Total, Revenue realized in Public Works Department	14,666	738	15,404	(2) Main canals and branches ..	2,12,527	10,989	2,23,516
				(3) Distributaries	89,534	76	89,610
				(4) Drainage and protective works ..	868	..	868
				(5) Special tools and plant		..	..
Irrigation Revenue realised in Civil Department	37,81,496	1,06,340	38,87,836	*Add*—Unclassifiable outlay	2,87,678	..	2,87,678
				Total ..	6,55,229	16,896	6,72,125
				Total, Extensions and Improvements and Maintenance and Repairs ..	7,31,439	18,461	7,49,900
Total, Direct Receipts ..	37,96,162	1,07,078	39,03,240	IV. ESTABLISHMENT	2,26,036	7,152	2,33,182
II. INDIRECT RECEIPTS—				V. TOOLS AND PLANT	438	267	705
				VI. REFUNDS OF REVENUE	249	..	249
Share of land revenue collected in the Civil Department ..	10,47,869	15,209	10,63,078	Total, Direct Charges ..	9,58,156	25,880	9,84,036
				Share of collection charges in the Civil Department	2,41,469	6,077	2,47,546
				Indirect charges	32,021	1,001	33,022
Total, Public Works and Civil Departments Revenue.	48,44,031	1,22,287	49,66,318	Total, Direct and Indirect Charges.	12,31,646	32,958	12,64,604
				* *Deduct*—Old maintenance charges saved to Government	12,460	2,393	14,853
				Total ..	12,19,186	30,565	12,49,751
				Balance, net revenue	36,24,845	91,722	37,16,567
Total, Receipts ..	48,44,031	1,22,287	49,66,318	Grand Total ..	48,44,031	1,22,287	49,66,318

* Direct—

	RS.
Extensions and improvements	64
Maintenance and repairs	1,580
Establishment	636
Tools and plant	24
	2,304
Indirect	89
Total ..	2,393

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–18 ..	4,67,133	Net revenue realized to end of 1917–18 ..	36,24,845
Total interest charges for the year 1918–19 ..	31,867	Net revenue realized during 1918–19	91,722
Balance net revenue	32,17,567		
Total ..	37,16,567	Total ..	37,16,567

SHATIATOPE ANICUT SYSTEM.—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalized abatement of land revenue	42,609	..	42,609
Leave and pension allowances	14,662	..	14,662
Total ..	57,271	..	57,271
REVENUE—			
Capitalized abatement of land revenue	379	..	379
Leave and pension allowances	31,642	1,001	32,643
Total ..	32,021	1,001	33,022
Grand Total ..	89,292	1,001	90,293

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.				RS.		
Works	1,09,182	7,01,224	8,10,406	..	..	..	8,10,406		
Establishment ..	24,702	80,022	1,04,724	..	..	..	1,04,724		
Tools and plant ..	..	115	115	..	..	..	115		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	1,33,884	7,81,361	9,15,245	..	..	..	9,15,245		
Less—Receipts on Capital account.	..	..	..	..	..	..	..		
Net Total ..	1,33,884	7,81,361	9,15,245	..	..	..	9,15,245		
Indirect Charges.									
Capitalized abatement of land revenue.	..	42,609	42,609	..	..	..	42,609		
Leave and pension allowances.	3,457	11,205	14,662	..	..	..	14,662		
Total ..	3,457	14	57,271	..	..	..	57,271		
Grand Total ..	1,37,341	8,35,175	9,72,516	..	..	..	9,72,516		

LOWER COLEROON ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated. Construction estimate closed on 30th June 1903.	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) Head Works—					
C. Works	10,39,467	..	10,39,467	10,39,467	10,39,467
K. Buildings	7,572	..	7,572	7,572	7,572
L. Earthwork	..	..	..	..	..
O. Miscellaneous	— 108	..	— 108	— 108	— 108
Total ..	10,46,931	..	10,46,931	10,46,931	10,46,931
(2) Main Canals and Branches—					
A. Preliminary expenses	3,089	..	3,089	3,089	3,089
B. Land	25,161	..	25,161	25,161	25,161
C. Works	..	..	..	..	..
D. Regulators	51,822	..	51,822	51,822	51,822
E. Falls and weirs	13,410	..	13,410	13,410	13,410
F. (1) Other cross drainage works ..	8,062	..	8,062	8,062	8,062
G. Bridges	12,363	..	12,363	12,363	12,363
K. Buildings	2,218	..	2,218	2,218	2,218
L. Earthwork	1,71,126	..	1,71,126	1,71,126	1,71,126
N. Tank and reservoirs	4,515	..	4,515	4,515	4,515
O. Miscellaneous	4,816	..	4,816	4,816	4,816
Total ..	2,96,582	..	2,96,582	2,96,582	2,96,582
(3) Distributaries—					
B. Land	5,008	..	5,008	5,008	5,008
C. Works	25,575	..	25,575	25,575	25,575
L. Earthwork	1,012	..	1,012	1,012	1,012
Total ..	31,595	..	31,595	31,595	31,595
(4) Drainage and Protective Works—					
B. Land	37,013	..	37,013	37,013	37,013
C. Works	57,045	1,388	58,433	58,515	57,045
L. Earthwork	76,522	..	76,522	76,522	76,522
O. Miscellaneous	1,329	..	1,329	1,329	1,329
Total ..	1,71,909	1,388	1,73,297	1,73,379	1,71,909
(5) Special Tools and Plant—	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	15,47,017	1,388	15,48,405	15,48,487	15,47,017
II. ESTABLISHMENT	3,08,521	538	3,09,059	3,08,852	3,08,521
III. TOOLS AND PLANT	14,059	20	14,079	14,081	14,059
Grand Total ..	18,69,597	1,946	18,71,543	18,71,420	18,69,597
Apportionment—					
Chargeable to 49. Irrigation	3,79,992	1,946	3,81,938	..	..
Chargeable to 43. Irrigation—Provincial.	14,89,605	..	14,89,605	..	..
Total ..	18,69,597	1,946	18,71,543	..	..

LOWER COLEROON ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918-1919.

Receipts.	Total. Previous.	Total. 1918-1919.	Total. Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations ..	22,383	2,336	24,719
6. Receipts from other canal produce ..	25,075	1,128	26,203
9. Rents of buildings.	1,327	147	1,474
11. Miscellaneous ..	2,047	1,245	3,292
Total, Revenue realized in Public Works Department	50,832	4,856	55,688
Irrigation revenue realized in Civil Department ..	1,32,39,039	2,38,698	1,34,77,737
Total, Direct Receipts ..	1,32,89,871	2,43,554	1,35,33,425
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	33,21,128	51,510	33,72,638
Total, Public Works and Civil Departments, Revenue	1,66,10,999	2,95,064	1,69,06,063
Total, Receipts ..	1,66,10,999	2,95,064	1,69,06,063

Charges.	Total. Previous.	Total. 1918-1919.	Total. Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	1,68,579	..	1,68,579
(2) Main canals and branches ..	99,363	1,551	1,00,914
(3) Distributaries	40,575	2	40,577
(4) Drainage and protective works..	2,074	..	2,074
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	24,873	..	24,873
Total ..	3,35,464	1,553	3,37,017
II. MAINTENANCE AND REPAIRS—			
(1) Head works	1,40,330	6,013	1,46,343
(2) Main canals and branches ..	5,20,211	67,028	5,87,239
(3) Distributaries	2,79,544	214	2,79,758
(4) Drainage and protective works.	8,406	..	8,406
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	4,82,053	..	4,82,053
Total ..	14,30,544	73,255	15,03,799
Total, Extensions and Improvements and Maintenance and Repairs ..	17,66,008	74,808	18,40,816
IV. ESTABLISHMENT	5,43,620	28,978	5,72,598
V. TOOLS AND PLANT	867	1,083	1,950
VI. REFUNDS OF REVENUE	220	6	226
Total, Direct Charges ..	23,10,715	1,04,875	24,15,590
Share of collection charges in the Civil department	8,28,010	14,510	8,42,520
Indirect charges	89,021	4,057	93,078
Total, Direct and Indirect Charges ..	32,27,746	1,23,442	33,51,188
* *Deduct*—Old maintenance charges saved to Government	55,165	10,600	65,765
Net Total ..	31,72,581	1,12,842	32,85,423
Balance, net revenue	1,34,38,418	1,82,222	1,36,20,640
Grand Total ..	1,66,10,999	2,95,064	1,69,06,063

	RS.
* Direct—	
Extensions and improvements	2,427
Maintenance and repairs	4,853
Establishment	2,820
Tools and plant	105
	10,205
Indirect	395
Total ..	10,600

LOWER COLEROON ANICUT SYSTEM—*Canal Project.*

No. 4.—Interest Account for and to end of 1918-1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917-1918 ..	18,77,473	Net revenue realized to end of 1917-1918 ..	1,34,38,418
Total interest charges for the year 1918-1919 ..	65,127	Net revenue realized during 1918-1919	1,82,222
Balance net revenue	1,16,78,040		
Total ..	1,36,20,640	Total ..	1,36,20,640

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	28,068	..	28,068
Leave and pension allowances	43,191	75	43,266
Total ..	71,259	75	71,334
REVENUE—			
Capitalization of abatement of land revenue	12,916	..	12,916
Leave and pension allowances	76,105	4,057	80,162
Total ..	89,021	4,057	93,078
Grand Total ..	1,60,280	4,132	1,64,412

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Direct charges.									
Works	10,67,518	4,79,499	15,47,017	1,388	1,470	82	15,48,405		
Establishment ..	2,32,629	75,892	3,08,521	538	331	— 207	3,09,059		
Tools and plant ..	14,059	..	14,059	20	22	2	14,079	Mis. 188 I., 31st May 1918.	1,470
Inspection account..	..	..	..	..	..	..	..		
Total ..	13,14,206	5,55,391	18,69,597	1,946	1,823	— 123	18,71,543		
Less—Receipts on Capital Account.	..	..	..	..	..	..	..		
Net total ..	13,14,206	5,55,391	18,69,597	1,946	1,823	— 123	18,71,543		
Indirect charges.									
Capitalised abatement of land revenue.	10,946	17,122	28,068	..	..	..	28,068		
Leave and pension allowances.	32,568	10,623	43,191	75	..	— 75	43,266		
Total ..	43,514	27,745	71,259	75	..	— 75	71,334		
Grand Total ..	13,57,720	5,83,136	19,40,856	2,021	1,823	— 198	19,42,877		

TOLUDUR PROJECT—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated.	Expenditure against closed estimate.
1	2	3	4	5	6
	RS.	RS.	RS.	RS.	
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses	7,520	88	7,608	9,500	..
B. Land	61,785	— 911	60,874	66,750	..
C. Works	1,24,772	53,169	1,77,941	5,94,560	..
K. Buildings	16,954	797	17,751	21,000	..
L. Earthwork	2,66,448	1,22,907	3,89,355	11,65,600	..
O. Miscellaneous	4,671	555	5,226	11,900	..
P. Maintenance	673	163	836	5,000	..
Unforeseen works	..	..	..	5,000	..
Total ..	4,82,823	1,76,768	6,59,591	18,79,310	..
(2) *Main Canals and Branches*—					
A. Preliminary expenses	1,174	2	1,176	5,800	..
B. Land	38,459	57	38,516	55,700	..
C. Works	..	..	..	85,370	..
D. Regulators	2,746	3,201	5,947	33,600	..
E. Falls and weirs	6,036	13,436	19,472	26,200	..
F. (1) Other cross drainage works ..	5,474	1,276	6,750	14,280	..
G. Bridges	1,627	5,614	7,241	20,200	..
K. Buildings	..	..	..	..	..
L. Earthwork	10,174	12,118	22,292	61,880	..
O. Miscellaneous	891	69	960	2,300	..
P. Maintenance	..	94	94	4,950	..
Unforeseen works	..	..	..	14,780	..
Total ..	66,581	35,867	1,02,448	2,40,690	..
(3) *Distributaries*—					
A. Preliminary expenses	942	26	968	1,200	..
B. Land	34,489	..	34,489	74,500	..
C. Works	..	6,550	6,550	72,400	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Unforeseen works	..	..	..	2,900	..
Total ..	35,431	6,576	42,007	1,51,000	..
(5) *Special Tools and Plant*—	..	— 58,221	— 58,221		..
Provision for unforeseen works ..	..	..	..	..	..
Total Works ..	5,84,835	1,60,990	7,45,825	22,71,000	..
II. ESTABLISHMENT	79,519	62,362	1,41,881	3,89,772	..
III. TOOLS AND PLANT	2,96,885	2,332	2,99,217	3,01,309	..
(*a*) Grand Total ..	9,61,239	2,25,684	11,86,923	29,62,081	..
V. *Less*—Receipts on capital account ..	2,011	678	2,689	2,081	
(*a*) Net Total ..	9,59,228	2,25,006	11,84,234	29,60,000	

(*a*) Chargeable to "49. Major Irrigation Works."

No. 4.—Interest Accounts for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	77,534	Net revenue realized to end of 1917–1918 ..	..
Total interest charges for the year 1918–1919.	37,316	Net revenue realized during 1918–1919 ..	..
		Balance net interest charges	1,14,850
Total ..	1,14,850	Total ..	1,14,850

TOLUDUR PROJECT—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	1,76,839	7,970	1,78,809
Leave and pension allowances	11,132	8,731	19,863
Total ..	1,81,971	16,701	1,98,672
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	..	..	..
Total ..	..	..	..
Grand Total ..	1,81,971	16,701	1,98,672

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and Date.	Amount of estimate.
Direct Charges.					RS.	RS.	RS.		RS.
Works ..	..	..	..	7,45,825	22,71,000	15,25,175	7,45,825	111 I., dated 20th March 1918.	22,71,000
Establishment ..	..	..	..	1,41,881	3,89,772	2,47,891	1,41,881		
Tools and plant ..	..	..	..	2,99,217	3,01,309	2,092	2,99,217		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	..	..	..	11,86,923	29,62,081	17,75,158	11,86,923		
Less—Receipts on Capital Account.	..	..	..	2,689	2,081	— 608	2,689		
Net Total ..	..	..	..	11,84,234	29,60,000	17,75,766	11,84,234		
Indirect Charges.									
Capitalized abatement of land revenue.	..	..	..	1,78,809	1,95,432	16,623	1,78,809		
Leave and pension allowance.	..	..	..	19,863	54,568	34,705	19,863		
Total ..	..	..	.	1,98,672	2,50,000	51,328	1,98,672		
Grand Total ..	..	..	..	13,82,906	32,10,000	18,27,094	13,82,906		

CAUVERY DELTA SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1889).	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
I. WORKS—					
(1) *Head Works*—					
C. Works	9,82,362	586	9,82,948	9,84,398	9,73,598
K. Buildings	12,408	...	12,408	12,408	12,408
O. Miscellaneous	258	...	258	...	...
Total ...	9,95,028	586	9,95,614	9,96,806	9,86,006
(2) *Main Canals and Branches*—					
B. Land	73,256	...	73,256	73,756	73,256
D. Regulators	6,84,161	696	6,84,857	7,20,719	6,74,279
F. (1) Other cross drainage works.	31,305	...	31,305	31,305	31,305
K. Buildings	21,143	...	21,143	20,154	20,154
L. Earthwork	56,832	5,002	61,834	60,632	56,832
O. Miscellaneous	693	...	693	1,253	693
Total ...	8,67,390	5,698	8,73,088	9,07,819	8,56,519
(3) *Distributaries*—					
B. Land	32,171	988	33,159	20,363	7,159
C. Works	1,35,893	2,045	1,37,938	1,52,750	1,16,804
L. Earthwork	36,064	362	36,426	39,384	8,889
O. Miscellaneous	— 1,674	...	— 1,674	3,207	2,807
Total ...	2,02,454	3,395	2,05,849	2,15,704	1,35,659
(4) *Drainage and Protective Works*—					
B. Land	13,941	1,169	15,110	37,408	13,941
C. Works	2,75,912	6,117	2,82,029	2,93,259	2,61,042
L. Earthwork	2,30,919	5,732	2,36,651	2,32,749	1,83,813
O. Miscellaneous	33,426	— 258	33,168	33,426	33,426
Total ...	5,54,198	12,760	5,66,958	5,96,842	4,92,222
(5) *Special tools and plant*	...	...	...	...	...
Provision for unforeseen works ...	...	...	...	...	...
Total outlay on current sanctions ...	26,19,070	22,439	26,41,509	27,17,171	24,70,406
Old outlay	7,76,216	...	7,76,216	7,76,216	7,76,216
Total, Works ..	33,95,286	22,439	34,17,725	34,93,387	32,46,622
II. ESTABLISHMENT	7,08,810	8,692	7,17,502	7,33,683	6,90,445
III. TOOLS AND PLANT	95,901	325	96,226	95,982	95,911
Grand Total ...	41,99,997	31,456	42,31,453	43,23,052	40,32,978
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT.	1,985	...	1,985	1,985	1,985
(*a*) Net Total ...	41,98,012	31,456	42,29,468	43,21,067	40,30,993

(*a*) Chargeable to "49. Irrigation."

CAUVERY DELTA SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.	Charges.	Total. Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
3. Miscellaneous receipts by sales of water ..	1,225	357	1,582	(1) Head works	70,760	2,596	73,356
5. Receipts from plantations ..	1,06,043	5,385	1,11,428	(2) Main canals and branches ..	2,42,381	3,314	2,45,695
6. Receipts from other canal produce	79,391	2,827	82,218	(3) Distributaries	6,07,102	5,629	6,12,731
				(4) Drainage and protective works.	1,91,605	1,747	1,93,352
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay.. ..	35,651	..	35,651
9. Rents of buildings.	7,627	667	8,294	Total ..	11,47,499	13,286	11,60,785
10. Fines	291	..	291	II. MAINTENANCE AND REPAIRS—			
11. Miscellaneous ..	26,229	1,897	28,126	(1) Head works	3,65,699	10,031	3,75,730
				(2) Main canals and branches ..	16,62,623	1,40,668	18,03,291
Total, Revenue realized in Public Works Department	2,20,806	11,133	2,31,939	(3) Distributaries	16,78,065	22,189	17,00,254
				(4) Drainage and protective works.	5,78,793	17,468	5,96,261
Irrigation Revenue realized in Civil Department.	3,85,56,745	5,10,157	3,90,66,902	(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay ..	36,26,896	..	36,26,896
				Total ..	79,12,076	1,90,356	81,02,432
Total, Direct Receipts ..	3,87,77,551	5,21,290	3,92,98,841	Total, Extensions and Improvements and Maintenance and Repairs ..	90,59,575	2,03,642	92,63,217
II. INDIRECT RECEIPTS—				IV. ESTABLISHMENT	38,60,174	79,866	39,40,040
				V. TOOLS AND PLANT	1,47,427	2,850	1,50,277
Share of land revenue collected in the Civil Department ..	75,15,361	1,18,072	76,33,433	VI. REFUNDS OF REVENUE	1,314	245	1,559
				Total, Direct charges ..	1,30,68,490	2,86,603	1,33,55,093
Total, Public Works and Civil Departments, Revenue	4,62,92,912	6,39,362	4,69,32,274	Share of collection charges in the Civil Department	26,46,345	31,412	26,77,757
				Indirect charges	6,53,583	11,181	6,64,764
				Total, Direct and Indirect charges ..	1,63,68,418	3,29,196	1,66,97,614
				Deduct—Old maintenance charges saved to Government* ..	1,13,17,068	1,53,812	1,14,70,880
				Net Total ..	50,51,350	1,75,384	52,26,734
				Balance, net revenue ..	4,12,41,562	4,63,978	4,17,05,540
Total, Receipts ..	4,62,92,912	6,39,362	4,69,32,274	Grand Total ..	4,62,92,912	6,39,362	4,69,32,274

	RS.
* Direct—	
Maintenance and Repairs	1,05,634
Establishment	40,919
Tools and Plant	1,530
Total ..	1,48,083
Indirect	5,729
Total, Direct and Indirect ..	1,53,812

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	43,37,595	Net revenue realized to end of 1917–1918 ..	4,12,41,562
Total interest charges for the year 1918–1919 ..	1,46,774	Net revenue realized during 1918–1919 ..	4,63,978
Balance net revenue	3,72,21,231		
Total ..	4,17,05,540	Total ..	4,17,05,540

CAUVERY DELTA SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	RS.	RS.	RS.
Capital—			
Capitalization of abatement of land revenue	78,998	99	79,097
Leave and pension allowances	1,13,346	1,217	1,14,563
Total ..	1,92,344	1,316	1,93,660
Revenue—			
Capitalization of abatement of land revenue	14,829	..	14,829
Leave and pension allowances	6,38,754	11,181	6,49,935
Total ..	6,53,583	11,181	6,64,764
Grand Total ..	8,45,927	12,497	8,58,424

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	13,07,547	19,39,075	32,46,622	1,71,103	2,46,785	75,662	34,17,725	155 I., 7th Mar. 1913.	2,370
Establishment ..	3,07,377	3,83,068	6,90,445	27,057	43,238	16,181	7,17,502	620 I., 3rd Dec. 1914.	7,500
Tools and plant ..	40,659	55,252	95,911	315	71	— 244	95,276	104 I., 4th Mar. 1916	65,910
Suspense account ..	..	..	..	..	..	..	..	252 I., 19th May 1915.	1,765
								509 I., 19th Nov. 1915.	15,000
								87 I., 20th Jan. 1917.	35,300
								601 I., 21st Dec. 1916.	2,230
								231 I., 23rd May 1916.	8,400
								3 I., 6th Jan. 1917.	12,500
								332 I., 2nd August 1916.	12,300
								347 I., 20th Aug. 1917.	10,800
								Mis. 340 I., 15th August 1917.	1,450
								524 I., 21st Dec. 1917.	12,900
								263 I., 27th June 1917.	4,615
								477 I., 16th Nov. 1917.	46,000
								Mis. 188 I., 31st May 1918.	1,470
								35 I., 4th Feb. 1919.	3,270
Total ..	16,55,583	23,77,395	40,32,978	1,98,475	2,90,074	91,599	42,31,453		
Less—Receipts on Capital account	1,985	..	1,985	..	..	..	1,985		
Net Total ..	16,53,598	23,77,395	40,30,993	1,98,475	2,90,074	91,599	42,29,468		
Indirect charges.									
Capitalized abatement of land revenue ..	66,184	10,101	76,285	2,812	..	—2,812	79,097		
Leave and pension allowances ..	57,144	53,631	1,10,775	3,788	..	—3,788	1,14,563		
Total ..	1,23,328	63,732	1,87,060	6,600	..	— 6,600	1,93,660		
Grand Total ..	17,76,926	24,41,127	42,18,053	2,05,075	2,90,074	84,999	44,23,128	Total ..	2,46,765

PERIYAR SYSTEM—*Tank Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges.			Amount of construction as now estimated (construction estimate closed on 31st March 1897).	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses	87,181	..	87,181	87,181	87,181
B. Land	69,057	..	69,057	69,057	69,057
C. Works	43,14,368	4,150	43,18,518	43,18,519	43,18,519
K. Buildings	3,18,813	491	3,19,304	3,19,304	3,19,304
L. Earthwork	1,83,154	— 491	1,82,663	1,82,663	1,82,663
O. Miscellaneous	1,83,487	..	1,83,487	1,83,487	1,83,487
P. Maintenance	74,692	..	74,692	74,692	74,692
Total ..	52,30,752	4,150	52,34,902	52,34,903	52,34,[illegible]
(2) *Main Canals and Branches*—					
A. Preliminary expenses	24,650	..	24,650	24,650	24,650
B. Land	78,581	..	78,581	78,581	78,581
C. Masonry works	1,75,769	..	1,75,769	1,79,109	1,79,109
D. Regulators	86,703	..	86,703	86,703	86,703
E. Falls and weirs	20,759	..	20,759	20,759	20,759
F. (1) Other cross drainage works ..	3,91,289	..	3,91,289	3,91,289	3,91,289
G. Bridges	72,797	..	72,797	72,797	72,797
H. Escapes	2,416	..	2,416	2,416	2,416
K. Buildings	33,042	..	33,042	33,042	33,042
L. Earthwork	5,71,271	..	5,71,271	5,71,271	5,71,271
O. Miscellaneous	21,211	..	21,211	21,211	21,211
P. Maintenance	85,862	..	85,862	85,862	85,862
Total ..	15,64,350	..	15,64,350	15,67,690	15,67,690
(3) *Distributaries*—					
A. Preliminary expenses	10,734	..	10,734	10,734	10,734
B. Land	90,224	819	91,043	91,139	90,985
C. Works	3,53,873	971	3,54,844	3,56,562	3,49,297
D. Regulators	22,401	..	22,401	22,401	22,401
E. Falls and weirs	86,260	..	86,260	86,260	86,260
F. (1) Other cross drainage works ..	31,701	..	31,701	31,701	31,701
G. Bridges	20,208	..	20,208	20,208	20,208
K. Buildings	6,624	..	6,624	7,050	7,050
L. Earthwork	4,01,401	..	4,01,401	4,01,968	4,01,402
O. Miscellaneous	26,953	..	26,953	26,531	26,531
P. Maintenance	22,858	..	22,858	22,858	22,858
Total ..	10,73,237	1,790	10,75,027	10,77,507	10,69,427
(4) *Drainage and Protective works*—					
B. Land	16,179	..	16,179	16,179	16,179
C. Works	1,033	..	1,033	1,033	1,033
L. Earthwork	13,272	..	13,272	13,272	13,272
O. Miscellaneous	3,882	..	3,882	3,882	3,882
Total ..	34,366	..	34,366	34,366	34,366
(5) *Special tools and plant*	..	..	..	..	..
Provision for unforeseen works	..	..	..	..	..
Total, Works ..	79,02,705	5,940	79,08,645	79,14,466	79,06,386
II. ESTABLISHMENT	16,45,827	2,686	16,48,513	16,49,734	16,48,012
III. TOOLS AND PLANT	7,66,782	47	7,66,829	7,66,850	7,66,822
Grand Total ..	1,03,15,314	8,673	1,03,23,987	1,03,31,050	1,03,21,229
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	17,936	..	17,936	17,936	17,936
(a) Net Total ..	1,02,97,378	8,673	1,03,06,051	[illegible]13,114	1,03,03,284

(a) Chargeable to "49. Irrigation."

PERIYAR SYSTEM—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	Total. 1918–1919.	Total. Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
4. Water supply of towns	645	..	645
5. Receipts from plantations ..	10,916	1,669	12,585
6. Receipts from other canal produce ..	75,246	5,882	81,128
8. Receipts from navigation ..	7,678	345	8,023
9. Rents of buildings..	8,152	517	8,669
10. Fines	80	..	80
11. Miscellaneous ..	22,986	9,083	32,069
Total, Revenue realized in the Public Works Department	1,25,703	17,496	1,43,199
Irrigation revenue realized in Civil Department ..	96,97,097	6,36,304	1,03,33,401
Total, Direct Receipts ..	98,22,800	7,03,800	1,05,26,600
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	7,51,498	48,002	7,99,500
Total, Public Works and Civil Departments, Revenue	1,05,74,298	7,51,802	1,13,26,100
Total, Receipts ..	1,05,74,298	7,51,802	1,13,26,100

Charges.	Total. Previous.	Total. 1918–1919.	Total. Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	46,555	208	46,763
(2) Main canals and branches ..	22,194	1,513	23,707
(3) Distributaries	2,05,553	2,777	2,08,330
(4) Drainage and protective works ..	16,924	60	16,984
(5) Special tools and plant ..	..	..	..
Total ..	2,91,226	4,558	2,95,784
II. MAINTENANCE AND REPAIRS—			
(1) Head works	2,02,333	5,438	2,07,771
(2) Main canals and branches ..	2,72,948	22,190	2,95,138
(3) Distributaries	4,36,006	20,341	4,56,347
(4) Drainage and protective works ..	7,038	3,118	10,156
(5) Special tools and plant ..	..	..	..
Total ..	9,18,326	51,087	9,69,412
III. COMPENSATION	9,61,223	42,965	10,04,188
Total, Extensions and Improvements and Maintenance and Repairs ..	21,70,774	98,610	22,69,384
IV. ESTABLISHMENT	8,12,514	44,585	8,57,099
V. TOOLS AND PLANT	78,115	780	78,895
VI. REFUNDS OF REVENUE	979	85	1,064
Total, Direct Charges ..	30,62,382	1,44,060	32,06,442
Share of collection charges in the Civil Department	4,96,445	34,907	5,31,352
Indirect charges	1,38,398	6,365	1,44,763
Total, Direct and Indirect Charges ..	36,97,225	1,85,332	38,82,557
Deduct—*Old maintenance charges saved to Government ..	5,93,122	39,449	6,32,571
Net Total ..	31,04,103	1,45,883	32,49,986
Balance, net revenue	74,70,195	6,05,919	80,76,114
Grand Total ..	1,05,74,298	7,51,802	1,13,26,100

* Direct—	RS.
Extensions and improvements	4,474
Maintenance and repairs	21,422
Establishment..	11,709
Tools and plant	205
Total ..	37,810
Indirect	1,639
Total, Direct and Indirect ..	39,449

PERIYAR SYSTEM—*Tank Project.*

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918	88,25,824	Net revenue realized to end of 1917–1918 ..	74,70,195
Total interest charges for the year 1918–1919 ..	3,58,685	Net revenue realized during 1918–1919.. ..	6,05,919
		Balance, net interest charges	11,08,395
Total ..	91,84,509	Total ..	91,84,509

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	1,36,192	246	1,36,438
Leave and pension allowances	2,30,336	376	2,30,712
Total ..	3,66,528	622	3,67,150
REVENUE—			
Capitalization of abatement of land revenue	25,478	123	25,601
Leave and pension allowances	1,12,920	6,242	1,19,162
Total ..	1,38,398	6,365	1,44,763
Grand Total ..	5,04,926	6,987	5,11,913

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Charges against closed sanctions. Expenditure against open canal sanction.	Charges against closed sanctions. Total.	Current sanctions. Charges to date.	Current sanctions. Amount of sanctioned estimate.	Current sanctions. Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Remarks. Amount of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Direct Charges.									
Works	60,69,752	18,36,634	79,06,386	2,259	8,080	5,821	79,08,645		
Establishment ..	13,46,177	3,01,835	16,48,012	501	1,722	1,221	16,48,513		
Tools and plant ..	7,28,291	38,531	7,66,822	7	28	21	7,66,829		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	81,44,220	21,77,000	1,03,21,220	2,767	9,830	7,063	1,03,23,987		
Less—Receipts on Capital Account.	14,203	3,733	17,936	..	..	..	17,936		
Net Total ..	81,30,017	21,73,267	1,03,03,284	2,767	9,830	7,063	1,03,06,051		
Indirect charges.									
Capitalised abatement of land revenue.	34,661	1,01,777	1,36,438	..	..	..	1,36,438		
Leave and pension allowances.	1,88,466	42,176	2,30,642	70	..	— 70	2,30,712	121 I., 6th Mar. 1915.	2,030
Total ..	2,23,127	1,43,953	3,67,080	70	..	— 70	3,67,150	6 I., 9th January 1917.	2,500
Grand Total ..	83,53,144	23,17,220	1,06,70,364	2,837	9,830	3,993	1,06,73,201	Mis. 75 I., 19th Feb. 1918.	1,700
								Mis. 225 I., 25th June 1918.	1,850
								Total ..	8,080

SRIVAIKUNTAM ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1889).	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
I. WORKS—					
(1) *Head Works*—					
B. Land	960	...	960	960	960
C. Works	2,08,497	...	2,08,497	2,08,497	2,08,497
K. Buildings	11,705	...	11,705	11,705	11,705
O. Miscellaneous	24,999	...	24,999	24,999	24,999
Total ...	2,46,161	...	2,46,161	2,46,161	2,46,161
(2) *Main Canals and Branches*—					
B. Land	44,121	1,991	46,112	44,321	44,121
D. Regulators	49,241	...	49,241	52,919	48,715
E. Falls and weirs	1,140	...	1,140	1,140	1,140
F. (1) Other cross drainage works	35,838	...	35,838	35,838	35,838
G. Bridges	29,201	...	29,201	29,201	29,201
H. Escapes	6,938	...	6,938	6,938	6,938
K. Buildings	2,025	...	2,025	2,025	2,025
L. Earthwork	2,21,856	2,481	2,24,337	2,39,080	2,04,694
N. Tanks and reservoirs ...	3,55,198	...	3,55,198	3,55,198	3,55,198
O. Miscellaneous	1,129	...	1,129	2,789	1,129
Total ...	7,66,687	4,472	7,71,159	7,69,449	7,28,999
(3) *Distributaries*—					
B. Land	13,870	...	13,870	13,870	13,870
C. Works	62,837	...	62,837	62,837	62,837
L. Earthwork...	1,14,437	...	1,14,437	1,14,437	1,14,437
N. Tanks and reservoirs ...	49,053	...	49,053	49,053	49,053
Total ...	2,40,197	...	2,40,197	2,40,197	2,40,197
(4) *Drainage and Protective Works*—					
B. Land	2,439	...	2,439	2,439	2,439
C. Works	2,998	...	2,998	2,998	2,998
L. Earthwork	38,305	...	38,305	38,305	38,305
Total ...	43,742	...	43,742	43,742	43,742
(5) *Special tools and plant*	...	...	...	...	...
Provision for unforeseen works ...	...	...	...	...	...
Total, Works ...	12,96,787	4,472	13,01,259	12,99,549	12,59,099
II. ESTABLISHMENT	3,19,693	2,022	3,21,715	3,21,388	3,12,684
III. TOOLS AND PLANT	10,524	36	10,560	10,524	10,524
Grand Total ...	16,27,004	6,530	16,33,534	16,31,411	15,82,307
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	369	...	369	369	369
(*a*) Net Total ...	16,26,635	6,530	16,33,165	16,31,042	15,81,938

(*a*) Chargeable to "49. Irrigation."

SRIVAIKUNTAM ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.	Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
4. Water-supply of towns	29,911	959	30,870	(1) Head works	6,726	..	6,726
				(2) Main canals and branches ..	64,531	1,376	65,907
5. Receipts from plantations	2,754	516	3,270	(3) Distributaries	30,265	59	30,324
				(4) Drainage and protective works ..	5,680	498	6,178
6. Receipts from other canal produce ..	43,386	2,855	46,241	(5) Special tools and plant ..	..	..	..
				Total ..	1,07,202	1,933	1,09,135
9. Rents of buildings..	10,889	375	11,264				
				II. MAINTENANCE AND REPAIRS—			
10. Fines	50	..	50	(1) Head works	62,678	1,138	63,816
				(2) Main canals and branches ..	5,68,814	11,989	5,80,803
11. Miscellaneous ..	8,568	243	8,811	(3) Distributaries	2,00,369	1,925	2,02,294
				(4) Drainage and protective works ..	26,095	696	26,791
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	..	..	..
Total, Revenue realized in Public Works Department	95,558	4,948	1,00,506	Total ..	8,57,956	15,748	8,73,704
				Total, Extensions and Improvements and Maintenance and Repairs ..	9,65,158	17,681	9,82,839
Irrigation Revenue realised in Civil Department	46,88,299	1,41,326	48,29,625	IV. ESTABLISHMENT	4,99,056	7,995	5,07,051
				V. TOOLS AND PLANT	7,402	140	7,542
				VI. REFUNDS OF REVENUE	660	..	660
Total, Direct Receipts ..	47,83,857	1,46,274	49,30,131	Total, Direct Charges ..	14,72,276	25,816	14,98,092
II. INDIRECT RECEIPTS—							
				Share of collection charges in the Civil Department	2,54,793	7,141	2,61,934
Share of land revenue collected in the Civil Department ..	76,299	1,490	77,789	Indirect charges	76,460	1,119	77,579
				Total, Direct and Indirect Charges ..	18,03,529	34,076	18,37,605
				Deduct Old maintenance charges saved to Government	3,44,419	8,470	3,52,889
Total, Public Works and Civil Departments, Revenue	48,60,156	1,47,764	50,07,920	Net Total ..	14,59,110	25,606	14,84,716
				Balance, net revenue ..	34,01,046	1,22,158	35,23,204
Total, Receipts ..	48,60,156	1,47,764	50,07,920	Grand Total ..	48,60,156	1,47,764	50,07,920

	RS.
Direct—	
Extensions and Improvements	352
Maintenance and Repairs	5,208
Establishment	2,514
Tools and plant	44
	8,118
Indirect	352
Total ..	8,470

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	24,44,152	Net revenue realized to end of 1917–1918 ..	34,01,046
Total interest charges for the year 1918–1919 ..	56,750	Net revenue realized during 1918–1919	1,22,158
Balance, net revenue	10,22,302		
Total ..	35,23,204	Total ..	35,23,204

SRIVAIKUNTAM ANICUT SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
Capital—			
Capitalization of abatement of land revenue	41,229	..	41,229
Leave and pension allowances	64,387	283	64,670
Total ..	1,05,616	283	1,05,899
Revenue—			
Capitalization of abatement of land revenue	410	..	410
Leave and pension allowances	76,050	1,119	77,169
Total ..	76,460	1,119	77,579
Grand Total ..	1,82,076	1,402	1,83,478

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	10,50,679	2,08,420	12,59,099	42,160	40,450	— 1,710	13,01,259	Direct charges—	
Establishment ..	2,90,193	22,491	3,12,684	9,031	8,654	— 377	3,21,715		
Tools and plant ..	10,524	..	10,524	36	..	— 36	10,560		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	13,51,396	2,30,911	*15,82,307	51,227	49,104	— 2,123	16,33,534	273 I., 11th June 1914.	40,450
Less—Receipts on Capital account.	369	..	369	..	..	..	369		40,450
Net Total ..	13,51,027	2,30,911	15,81,938	51,227	49,104	— 2,123	16,33,165		
Indirect charges.									
Capitalised abatement of land revenue ..	40,408	821	41,229	..	..	..	41,229		
Leave and pension allowances ..	60,259	3,148	63,407	1,263	..	— 1,263	64,670		
Total ..	1,00,667	3,969	1,04,636	1,263	..	— 1,263	1,05,899		
Grand Total ..	14,51,694	2,34,880	16,86,574	52,490	49,104	— 3,386	17,39,064		

RUSHIKULYA SYSTEM—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1901).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses	15,476	..	15,476	15,476	15,476
B. Land	1,70,021	..	1,70,021	1,70,021	1,70,021
C. Works	13,57,403	3,184	13,60,587	13,62,812	13,55,132
K. Buildings	19,275	..	19,275	19,275	19,275
L. Earthwork	24,017	..	24,017	24,017	24,017
O. Miscellaneous	458	..	458	458	458
P. Maintenance	6,180	..	6,180	6,180	6,180
Total ..	15,92,830	3,184	15,96,014	15,97,739	15,90,559
(2) *Main Canals and Branches*—					
A. Preliminary expenses	5,902	..	5,902	5,902	5,902
B. Land	86,387	..	86,387	86,387	86,387
C. Works	6,237	853	7,090	7,547	6,237
D. Regulators	24,945	..	24,945	24,945	24,945
E. Falls and weirs	10,200	..	10,200	10,200	10,200
F. (1) Other cross drainage works ..	4,54,345	2,025	4,56,370	4,60,786	4,51,786
G. Bridges	1,09,740	..	1,09,740	1,09,740	1,09,740
I. Navigation works	1	..	1	1	1
K. Buildings	1,220	1,495	2,715	2,715	2,715
L. Earthwork	9,48,311	..	9,48,311	9,48,311	9,48,311
M. Plantations	3,733	..	3,733	3,733	3,733
N. Tanks and reservoirs	978	..	978	978	978
O. Miscellaneous	10,325	..	10,325	10,325	10,325
P. Maintenance	1,694	..	1,694	1,694	1,694
Total ..	16,64,018	4,373	16,68,391	16,73,264	16,62,954
(3) *Distributaries*—					
A. Preliminary expenses	5,577	..	5,577	5,577	5,577
B. Land	84,580	1,108	85,688	87,480	84,580
C. Works	1,64,409	..	1,64,409	1,65,829	1,64,409
L. Earthwork	2,96,719	..	2,96,719	2,98,539	2,96,719
O. Miscellaneous	3,619	..	3,619	3,819	3,619
Total ..	5,54,904	1,108	5,56,012	5,61,244	5,54,904
(4) *Drainage and Protective Works*—					
L. Earthwork	4,144	..	4,144	4,144	4,144
Total ..	4,144	..	4,144	4,144	4,144
(5) Special tools and plant	..	..	..	..	..
Total, Works ..	38,15,896	8,665	38,24,561	38,36,391	38,12,561
II. ESTABLISHMENT	8,05,093	3,224	8,08,317	8,08,540	8,05,585
III. TOOLS AND PLANT	1,27,321	209	1,27,530	1,27,401	1,27,366
Grand Total ..	47,48,310	12,098	47,60,408	47,72,332	47,45,512
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	65,853	..	65,853	65,853	65,853
(a) Net Total ..	46,82,457	12,098	46,94,555	47,06,479	46,79,659

(a) Chargeable to "35. Protective Works—Irrigation."

RUSHIKULYA SYSTEM—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
1. Water-rates ..	25	..	25
3. Sale of water ..	1,400	150	1,550
4. Water-supply of town ..	10,625	..	10,625
5. Receipts from plantations ..	4,353	309	4,662
6. Receipts from other canal produce ..	14,492	769	15,261
8. Navigation receipts ..	24	..	24
9. Rents of buildings.	2,727	154	2,881
10. Fines	17	..	17
11. Miscellaneous ..	12,677	..	12,677
Total Revenue realized in Public Works Department.	46,340	1,382	47,722
Irrigation revenue realized in Civil Department ..	27,93,131	1,70,839	29,63,970
Total, Direct Receipts.	28,39,471	1,72,221	30,11,692
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department.	70,069	4,510	74,579
Total, Public Works and Civil Departments, Revenue.	29,09,540	1,76,731	30,86,271
Total, Receipts ..	29,09,540	1,76,731	30,86,271

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	25,072	66	25,138
(2) Main canals and branches ..	24,244	— 47	24,197
(3) Distributaries	52,019	1,517	53,536
(4) Drainage and protective works.	892	..	892
(5) Special tools and plant ..	..	..	..
Total ..	1,02,227	1,536	1,03,763
II. MAINTENANCE AND REPAIRS—			
(1) Head works	2,76,905	15,069	2,91,974
(2) Main canals and branches ..	4,31,049	16,605	4,47,654
(3) Distributaries	1,81,296	10,896	1,92,192
(4) Drainage and protective works.	925	1,120	2,045
(5) Special tools and plant ..	..	..	..
Total ..	8,90,175	43,690	9,33,865
Total, Extensions and Improvements and Maintenance and Repairs ..	9,92,402	45,226	10,37,628
IV. ESTABLISHMENT	2,20,250	16,828	2,37,078
V. TOOLS AND PLANT	23,164	1,090	24,254
VI. REFUNDS OF REVENUE	79	3	82
Total, Direct Charges ..	12,35,895	63,147	12,99,042
Share of collection charges in the Civil Department	1,42,419	8,710	1,51,129
Indirect charges	32,073	2,356	34,429
Total, Direct and Indirect charges ..	14,10,387	74,213	14,84,600
Deduct—Old maintenance charges saved to Government	14,070	8,086	22,156
Net total ..	13,96,317	66,127	14,62,444
Balance, net revenue	15,13 223	1,10,604	16,23,827
Grand Total ..	29,09,540	1,76,731	30,86,271

* Direct—

	RS.
Extensions and Improvements	1,475
Maintenance and Repairs	4,108
Establishment	2,077
Tools and plant	135
Total ..	7,795
Indirect	291
	8,086

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.
	RS.
Total interest charges to end of 1917–1918	44,77,786
Total interest charges for the year 1918–19	1,63,245
Total ..	46,41,031

	Amount.
	RS.
Net revenue realised to end of 1917–1918	[illegible]
Net revenue realised during 1918–19	1,10,604
Balance, net interest charges ..	30,17,204
Tote ..	46,41,031

RUSHIKULYA SYSTEM—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
Capital—			
Capitalisation of abatement of land revenue	3,00,163	..	3,00,163
Leave and pension allowances	1,12,713	451	1,13,164
Total ..	4,12,876	451	4,13,327
Revenue—			
Capitalisation of abatement of land revenue	1,240	..	1,240
Leave and pension allowances	30,833	2,356	33,189
Total ..	32,073	2,356	34,429
Grand total ..	4,44,949	2,807	4,47,756

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Direct charges.									
Works	35,19,326	2,93,235	38,12,561	12,000	23,830	11,830	38,24,561		
Establishment	7,46,990	58,595	8,05,585	2,732	2,955	223	8,08,317		
Tools and plant ..	1,26,941	425	1,27,366	164	35	— 129	1,27,530		
Suspense account ..	..	..	..	..	..	..	..		
Total	43,93,257	3,52,255	47,45,512	14,896	26,820	11,924	47,60,408		
Less—Receipts on capital account.	7,851	58,002	65,853	..	..	..	65,853	279 I., 28th June 1916.	7,180
								530 R., 16th Nov. 1916.	9,000
								392 I., 21st Sep. 1917.	3,560
								84 I., 26th Feb. 1915.	1,740
Net total ..	43,85,406	2,94,253	46,79,659	14,896	26,820	11,924	46,94,555		
Indirect charges.									
Capitalized abatement of land revenue.	2,92,911	7,252	3,00,163	..	..	..	3,00,163	Mis. 411 I., 8th Feb. 1919.	1,310
Leave and pension allowances.	1,04,579	8,203	1,12,782	382	..	— 382	1,13,164	Mis. 86 I., 28th March 1919.	1,040
Total ..	3,97,490	15,455	4,12,945	382	..	— 382	4,13,327	Total ..	23,830
Grand total ..	47,82,896	3,09,708	50,92,604	15,278	26,820	11,542	51,07,882		

BHAVANASI TANK PROJECT—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated.	Expenditure against closed estimate.
I. WORKS—	Rs.	Rs.	Rs.	Rs.	
(1) *Head Works*—					
A. Preliminary expenses ...	1,188	...	1,188	1,200	...
B. Land	8,456	52	8,508	8,613	...
C. Works	9,377	354	9,731	15,720	...
E. Falls and Weirs	6,884	...	6,884	...	...
L. Earthwork	97,411	19,247	1,16,658	85,250	...
O. Miscellaneous	123	..	123	270	...
Total ...	1,23,439	19,653	1,43,092	1,11,053	...
(2) *Main Canals and Branches*—					
A. Preliminary expenses ...	17	...	17	136	...
B. Land	4,211	— 52	4,159	4,211	...
C. Works	12,627	1,811	14,438	15,970	...
D. Regulators	...	...	...	...	...
F. Rivers and Hill Torrents ...	...	...	...	...	...
F. (1) Other cross drainage works	...	...	...	...	...
G. Bridges	...	...	...	...	...
K. Buildings	...	...	...	...	...
L. Earthwork	24,110	5,384	29,494	24,720	...
O. Miscellaneous	303	...	303	310	...
P. Maintenance	...	152	152	...	...
Total ...	41,268	7,295	48,563	45,347	...
(3) *Distributaries*—					
B. Land	...	...	...	...	...
C. Works	...	...	...	...	...
L. Earthwork	...	...	...	...	...
O. Miscellaneous	...	...	...	...	...
P. Maintenance	...	..	...	...	...
Total ...	...	...	...	...	...
(5) *Special tools and plant*—	...	— 9,221	— 9,221	...	...
Provision for unforeseen works	...	...	...	...	...
Total Works ...	1,64,707	17,727	1,82,434	1,56,400	...
II. ESTABLISHMENT	32,701	8,952	41,653	30,582	...
III. TOOLS AND PLANT	25,386	274	25,660	15,307	...
	2,22,794	26,953	2,49,747	2,02,289	...
V. Less receipts on capital account ...	145	21	166	...	...
(a) Grand Total ...	2,22,649	26,932	2,49,581	2,02,289	...

(a) Chargeable to "35. Protective Works—Irrigation—Imperial."

Note.—The Government have ordered that the excess may be explained in the report on the closure of the construction estimate of the project.

BHAVANASI TANK PROJECT—*Tank Project.*

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918.	21,585	Net revenue realized to end of 1917–1918.	..
Total interest charges for the year 1918–1919.	8,221	Net revenue realized during 1918–1919.	..
		Balance net interest charges	29,806
Total ..	29,806	Total ..	29,806

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	5,000	27	5,027
Leave and pension allowances	4,578	1,253	5,831
Total ..	9,578	1,280	10,858
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	..	..	..
Total ..	..	..	..
Grand total ..	9,578	1,280	10,858

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

ticulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
al Charges.	..	..	..	1,82,434	1,56,400	— 26,034	1,82,434	367 I., 25th Aug. 1916.	
.. ..	..	..	..	41,653	30,582	— 11,071	41,653		
lishment ..	..	..	..	25,660	15,307	— 10,353	25,660	Direct	1,56,400
and plant ..	..	..	..	..	..	..	..	Indirect ..	6,711
ee account ..	..	..	..	..	..	..			
Total ..	..	..	..	2,49,747	2,02,289	— 47,458	2,49,747		
Receipts on tal account.	..	..	..	166	.	— 166	166		
Net Total ..	..	..	..	2,49,581	2,02,289	— 47,292	2,49,581		
rect Charges.									
abate- of land nue.	..	..	..	5,027	2,430	— 2,597	5,027		
and pension wances.	..	..	..	5,831	4,281	— 1,550	5,831		
Total ..	..	..	..	10,858	6,711	— 4,147	10,858		
and Total ..	..	..	..	2,60,439	2,09,000	— 51,439	2,60,439		

MOPAD PROJECT—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated.	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses ...	13,472	...	13,472	13,600	...
B. Land	82,643	...	82,643	85,000	...
C. Works	43,339	206	43,545	43,545	...
K. Buildings	22,702	48	22,750	23,500	...
L. Earthwork	8,90,787	99,148	9,89,935	10,63,500	...
N. Tanks and reservoirs ...	...	...	...	...	...
O. Miscellaneous	10,104	1,877	11,981	10,240	...
P. Maintenance	20,619	706	21,325	20,000	...
Unforeseen works	...	...	...	5,016	...
Total ..	10,83,666	1,01,985	11,85,651	12,64,401	...
(2) *Main Canals and Branches*—					
A. Preliminary expenses ...	1,814	124	1,938	3,000	...
B. Land	6,914	3,286	10,200	9,770	...
D. Regulators	7,133	2,750	9,883	15,100	...
E. Falls and weirs	19,136	453	19,589	28,550	...
F. (1) Other cross drainage works	1,36,211	5,518	1,41,729	1,51,868	...
G. Bridges	11,090	1,121	12,211	17,089	...
K. Buildings	3,046	...	3,046	3,050	...
L. Earthwork	71,152	7,463	78,615	1,03,300	...
O. Miscellaneous	3,165	567	3,732	3,730	...
P. Maintenance	1,008	1,170	2,178	2,000	...
Unforeseen works	...	...	...	211	...
Total ...	2,60,669	22,452	2,83,121	3,37,668	...
(3) *Distributaries*—					
A. Preliminary expenses ..	2,371	14	2,385	2,200	...
B. Land	856	872	1,728	2,740	...
C. Works	...	...	...	6,140	...
L. Earthwork	123	288	411	9,400	...
O. Miscellaneous	1,977	267	2,244	2,270	...
Total ...	5,327	1,441	6,768	22,750	...
(5) *Special tools and plant*—	...	14,643	14,643	...	...
Provision for unforeseen works	...	...	...	...	...
Total, Works ...	13,49,662	1,40,521	14,90,183	16,24,819	..
II. ESTABLISHMENT	2,65,129	27,769	2,92,898	3,20,803	...
III. TOOLS AND PLANT	2,32,577	732	2,33,309	1,66,855	...
Grand Total ...	18,47,368	1,69,022	20,16,390	21,12,477	...
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT.	12,859	1,678	14,537	11,724	...
(*a*) Net Total ...	18,34,509	1,67,344	20,01,853	21,00,753	...

(*a*) Chargeable to "35. Protective Works—Irrigation."

MOPAD PROJECT—*Canal Project.*

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	3,33,944	Net revenue realized to end of 1917–1918 ..	..
Total interest charges for the year 1918–1919.	66,787	Net revenue realized during 1918–1919 ..	..
		Balance net interest charges	4,00,731
Total ..	4,00,731	Total ..	4,00,731

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	51,574	65	51,639
Leave and pension allowances	37,120	3,888	41,008
Total ..	88,694	3,953	92,647
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	..	..	..
Total ..	..	..	..
Grand Total ..	88,694	3,953	92,647

No. 6.—Statement comparing Charges to date with sanctioned Estimates.

Particulars.	Charges against closed Sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.				RS.	RS.	RS.	RS.	*Direct Charges.*	RS.
Works	..	..	..	14,90,183	16,24,819	1,34,636	14,90,183		
Establishment ..	..	..	..	2,92,898	3,20,803	27,905	2,92,898	136 I., 29th March 1917.	
Tools and plant ..	..	..	..	2,33,309	1,66,855	— 66,454	2,33,309	Direct charges.	16,24,819
Suspense account ..	..	..	..	..	..	..	..	Indirect Charges.	96,247
Total ..	..	..	..	20,16,390	21,12,477	96,087	20,16,390		
Less—Receipts on Capital Account.	..	..	..	14,537	11,724	— 2,813	14,537		
Net Total ..	..	..	..	20,01,853	21,00,753	98,900	20,01,853		
Indirect Charges.									
Capitalised abatement of land revenue.	..	..	..	51,639	51,335	— 304	51,639		
Leave and pension allowances.	..	..	..	41,008	44,912	3,904	41,008		
Total ..	..	..	..	92,647	96,247	3,600	92,647		
Grand Total ..	..	..	..	20,94,500	21,97,000	1,02,500	20,94,500		

VENKATAPURAM TANK PROJECT—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
	Rs.	Rs.	Rs.	Rs.	
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses ...	...	...		2,600	...
B. Land	1,781	...	1,781	2,070	...
C. Works	52,542	— 216	52,326	46,550	...
K. Buildings	1,054	830	1,884	4,500	...
L. Earthwork	2,28,401	157	2,28,558	2,02,300	...
O. Miscellaneous	251	82	333	90	...
Total ...	2,84,029	853	2,84,882	2,58,110	...
(2) *Main Canals and Branches*—					
A. Preliminary expenses ...	...	19	19	100	...
B. Land		2,702	2,702	90	...
C. Works	7,695	727	8,422	2,170	...
D. Regulators	...	...	...	...	...
F. Rivers and Hill Torrents ...	...	...	...	...	...
F. (1) Other cross drainage works.	...	...	...	...	...
G. Bridges	...	...	...	...	...
K. Buildings	...	...	...	...	...
L. Earthwork	6,130	28	6,158	3,280	...
O. Miscellaneous	2,954	— 2,940	14	2,560	...
P. Maintenance	...	...	...	...	...
Total ...	16,779	586	17,315	8,200	...
(3) *Distributaries*—					
B. Land	...	...	..	...	...
C. Works	...	...	...	...	...
L. Earthwork	...	...	...	...	...
O. Miscellaneous	...	...	...	...	...
P. Maintenance	...	...	...	...	...
Total ...	...	...	...	..	...
(5) *Special tools and plant*—	...	1	1	...	...
Provision for unforeseen works ...	...	...	...	650	...
Total, Works ...	3,00,808	1,390	3,02,198	2,66,960	...
II. ESTABLISHMENT	62,353	906	63,259	60,904	...
III. TOOLS AND PLANT	4,205	14	4,219	3,912	...
Grand Total ...	3,67,366	2,310	3,69,676	3,31,776	...
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT.	519	...	519	...	...
(*a*) Net Total ...	3,66,847	2,310	3,69,157	3,31,776	...

(*a*) Chargeable to "35. Protective Works—Irrigation—Imperial."

Note.—Government have ordered that the excess should be explained in the completion report for the project and the completion report has been submitted to Government.

VENKATAPURAM TANK PROJECT—

Tank project.

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
						RS.	RS.
DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
6. Receipts from other canal produce ..	..	..	..	(1) Head works	..	..	..
9. Rents of buildings.	..	..	..	(2) Main canals and branches ..	..	..	..
11. Miscellaneous ..	..	..	..	(3) Distributaries..	..	..	..
				(4) Drainage and protective works ..	..	..	..
				Total ..	..	..	..
Total, Revenue realized in Public Works Department ..	..	..	..	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	..	..	..
Irrigation Revenue realized in Civil Department ..	..	..	..	(2) Main canals and branches ..	..	500	500
				(3) Distributaries	..	..	..
				(4) Drainage and protective works ..	..	..	..
Total, Direct Receipts.	..	..	..	*Add*—Unclassifiable outlay.. ..	..	..	..
				Total ..	..	500	500
II. INDIRECT RECEIPTS—							
Share of Land Revenue collected in the Civil Department ..	..	..	..	Total, Extensions and Improvements and Maintenance and Repairs	..	500	500
Total, Public Works and Civil Departments, Revenue ..	..	..	..	IV. ESTABLISHMENT	..	326	326
				V. TOOLS AND PLANT	..	5	5
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	..	831	831
				Share of collection charges in the Civil Department	..	..	..
				Indirect Charges	..	46	46
				Total, Direct and Indirect Charges.	..	877	877
				Balance, net revenue	..	—877	—877
Total, Receipts ..	..	..	..	Grand Total ..	..	..	..

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. MADRAS PRESIDENCY.

VENKATAPURAM TANK PROJECT—*Tank Project.*

No. 4.—Interest Account for and to end of 1918–1919.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1917–1918 ..	71,315	Net revenue realized to end of 1917–1918 ..	..
Total interest charges for the year 1918–1919.	12,813	Net revenue realized during 1918–1919 ..	— 877
		Balance net interest charges	85,005
Total ..	84,128	Total ..	84,128

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	3,627	..	3,627
Leave and pension allowances	8,728	127	8,855
Total ..	12,355	127	12,482
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	..	46	46
Total ..	..	46	46
Grand Total ..	12,355	173	12,528

No. 6.—Statement comparing Charges to date with sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges of date.	Amount of sanctioned estimate.	Unspent balance of estimate		G.O. No. and date.	Amount of estimate.
Direct Charges.				RS.	RS.	RS.	RS.		RS.
Works	..	..	..	3,02,198	2,66,960	— 35,238	3,02,198	402 I., 27th September 1909.	
Establishment ..	..	..	..	63,259	60,904	— 2,355	63,259		
Tools and plant ..	..	..	..	4,219	3,912	— 307	4,219	Direct	2,66,960
Suspense account ..	..	..	..	..	..	..	..	Indirect ..	14,824
Total ..	..	..	..	3,69,676	3,31,776	— 37,900	3,69,676		
Less—Receipts on Capital Account ..	..	..	..	519	..	— 519	519		
Net Total ..	..	..	..	3,69,157	3,31,776	— 37,381	3,69,157		
Indirect Charges.									
Capitalized abatement of land revenue ..	..	..	..	3,627	6,300	2,673	3,627		
Leave and pension allowances	..	..	..	8,855	8,524	—331	8,855		
Total ..	..	..	..	12,482	14,824	2,342	12,482		
Grand Total ..	..	..	..	3,81,639	3,46,600	— 35,039	3,81,639		

No. 1.—GENERAL ABSTRACT OF FINANCIAL RESULTS SHOWING THE ESTIMATED COST OF CONSTRUCTION OF IRRIGATION AND NAVIGATION WORKS, THE CAPITAL OUTLAY THEREON, THE REVENUE DERIVED THEREFROM, THE WORKING EXPENSES, AND THE INTEREST ON THE DEBIT INCURRED IN RESPECT OF THOSE WORKS.

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Irrigation and Navigation Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses, and the interest on the debit incurred in respect of those works.

Name of project.	Estimated cost of Construction.			Capital outlay					
				During 1918-1919.			To end of 1918-1919.		
	Direct charges	Indirect charges.	Total.	Direct charges.	Indirect charges.	Total.	Direct charges.	Indirect charges.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
43. MINOR WORKS AND NAVIGATION.									
Irrigation Works.									
Ganjam minor rivers system ..	2,58,182	10,203	2,68,385	..	..	..	2,58,182	10,203	2,68,385
Muniyeru project	6,71,434	28,000	6,99,434	..	..	..	5,68,066	29,636	5,98,602
Peddinayudu tank of Chennarowpalem.	68,234	20,726	88,960	..	..	..	62,098	1,397	63,495
Jangameshwarapuram tank ..	61,253	10,411	71,664	..	..	..	61,253	10,411	71,664
Atmakuru tank	1,09,951	13,428	1,23,379	..	..	..	1,09,951	13,428	1,23,379
Dondapad tank	1,24,786	15,218	1,40,004	..	..	..	1,24,786	15,218	1,40,004
Hajipuram tank	2,78,774	33,109	3,11,883	..	..	..	2,78,774	33,109	3,11,883
Ponnalur tank	1,97,372	25,011	2,22,383	5,552	122	5,674	1,87,693	25,524	2,13,217
Anamasamudram-Beraperu tank.	71,687	1,886	73,573	..	..	..	71,687	1,886	73,573
Yerur tank	61,741	1,612	63,353	..	..	..	61,741	1,612	63,353
Vamula tank	62,186	1,571	63,757	..	..	..	62,186	1,571	63,757
Sagileru system	4,47,108	17,619	4,64,727	..	..	..	4,47,108	17,619	4,64,727
Talapula vanka tank ..	66,283	2,541	68,824	..	..	..	66,283	2,541	68,824
Cumbum tank	83,985	2,388	86,373	..	..	..	83,985	2,388	86,373
Markapur tank project ..	1,16,657	4,001	1,20,658	..	..	..	1,16,657	4,001	1,20,658
Yellanur tank project ..	2,35,711	30,089	2,65,800	12,714	691	13,405	2,37,083	30,374	2,67,457
Kocheruvu tank project ..	1,22,800	8,700	1,31,500	4,977	271	5,248	1,23,507	10,886	1,34,393
Siddapur tank project ..	9,21,980	26,620	9,48,600	— 17,032	— 922	—17,954	8,99,171	15,720	9,14,891
Nagavaram anicut and supply channel.	1,03,610	2,185	1,05,795	..	..	..	1,07,295	2,595	1,09,890
Arkenkota channel	1,47,006	3,676	1,50,682	..	..	..	1,40,769	3,676	1,44,445
Thadapalle do.	1,70,380	11,050	1,81,430	..	..	..	1,64,755	11,050	1,75,805
Kalingaroyan channel ..	1,77,380	4,506	1,81,886	..	..	..	1,75,980	4,506	1,80,486
Kanniapaliem anicut ..	94,405	2,339	96,744	30,700	1,037	31,737	78,773	2,214	80,987
Palar anicut system ..	23,36,920	1,16,780	24,53,700	1,016	22	1,038	23,27,176	1,16,802	24,43,978
Valluru anicut system ..	74,585	1,666	76,201	5,675	125	5,800	74,498	1,918	76,416
Madras Water-supply and Irrigation system.	15,61,933	2,38,945	18,00,878	..	..	..	15,47,123	2,38,945	17,86,068
Chembrambakkam tank ..	6,48,970	1,12,547	7,61,517	2,441	54	2,495	6,41,692	1,12,601	7,54,293
Mohamattur anicut system ..	70,761	1,897	72,658	..	..	..	70,761	1,897	72,658
Vriddhachalam anicut system.	84,191	2,494	86,685	..	..	..	84,191	2,494	86,685
Pelandorai anicut system ..	6,42,823	47,800	6,90,623	9,000	342	9,342	6,31,435	48,301	6,79,736
Nandyar channel system ..	63,231	2,484	65,715	..	..	..	63,231	2,484	65,715
Marudur anicut system ..	50,541	1,265	51,806	..	..	..	50,541	1,265	51,806
Panjapatti Reservoir ..	3,36,090	68,510	4,04,600	47,807	2,219	50,026	3,29,701	11,541	3,41,242
Navigation Works.									
Chilka lake canal	30,240	787	31,027	..	..	..	30,240	787	31,027
Ganjam-Gopalpur canal ..	1,43,100	12,393	1,55,493	..	..	..	1,43,100	12,393	1,55,493
Buckingham canal	85,56,015	4,88,256	90,44,271	15,229	335	15,564	85,35,684	4,88,650	90,24,334
Vedaranniyam canal ..	1,32,699	3,733	1,36,432	..	..	..	1,32,699	3,733	1,36,432
Total ..	1,93,84,954	13,76,446	2,07,61,400	1,18,079	4,296	1,22,375	1,90,80,755	12,95,376	2,03,76,131

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19. **MADRAS PRESIDENCY.**

Receipts during 1918-1919.			Working Expenses during 1918-1919.			Net result excluding Interest (difference between Revenue and Working Expenses).				Simple interest during 1915-1916.	Net result including interest.			
Water-rates, etc.	Collected with land revenue.	Total.	Direct charges.	Indirect charges.	Total.	Excess revenue (surplus).	Excess expenditure (deficit).	Rate per cent. Of excess revenue.	Rate per cent. Of excess expenditure.		Excess revenue (surplus).	Excess expenditure (deficit).	Rate per cent. Of excess revenue.	Rate per cent. Of excess expenditure.
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.							
43,978	7,324	51,302	19,025	602	19,627	31,675	..	11·80	..	..	..	..	..	..
21,789	60	21,849	10,063	413	10,476	11,373	..	1·89	..	..	..	..	..	..
1,027	..	1,027	188	5	193	834	..	1·31	..	..	..	..	..	..
1,407	..	1,407	310	11	321	1,086	..	1·52	..	..	..	..	..	..
3,412	..	3,412	278	5	283	3,129	..	2·54	..	..	..	..	..	..
722	3	725	2,850	129	2,979	..	2,254	..	1·60	..	..	..	..	..
3,203	15	3,218	157	..	157	3,061	..	·98	..	..	..	..	..	..
4,244	..	4,244	4,387	92	4,479	..	235	..	·11	..	..	..	..	..
337	1	338	— 950	— 44	— 994	1,332	..	1·81	..	..	..	..	..	..
3,116	64	3,180	4,285	91	4,376	..	1,196	..	1·89	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
— 10,049	4	— 10,045	— 1,952	— 78	— 2,030	..	8,015	..	1·72	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18,179	461	18,640	10,556	524	11,080	7,560	..	8·75	..	..	..	..	..	..
6,137	1	6,138	5,373	275	5,648	490	..	·41	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19,370	410	19,780	4,773	128	4,901	14,879	..	10·30	..	..	..	..	..	..
53,703	2,900	56,603	12,843	324	13,167	53,436	..	30·39	..	..	..	..	..	..
39,136	483	39,619	18,589	564	19,153	20,466	..	11·34	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60,947	16,733	77,680	73,742	2,260	76,002	1,678	..	·06	..	..	..	..	..	..
2,902	1,974	3,876	213	1	214	3,662	..	4·79	..	..	..	..	..	..
50,329	462	50,791	13,038	268	13,306	37,485	..	2·1	..	..	..	..	..	..
50,526	908	51,434	8,495	130	8,625	42,809	..	5·68	..	..	..	..	..	..
15,488	51	15,539	2,836	78	2,914	12,625	..	17·88	..	..	..	..	..	..
24,125	294	24,419	5,707	171	5,878	18,541	..	21·89	..	..	..	..	..	..
42,117	76	42,193	21,163	1,206	22,369	19,824	..	2·92	..	..	..	..	..	..
6,123	54	6,177	— 1,555	— 78	— 1,633	7,810	..	11·88	..	..	..	..	..	..
93,621	270	93,891	3,770	35	3,735	90,156	..	174·02	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56	..	56	225	8	233	..	177	..	·11	..	..	..	..	..
87,457	..	87,457	1,92,12	4,239	1,96,751	..	1,09,294	..	1·21	..	..	..	..	..
639	..	639	9,152	347	9,499	..	8,860	..	6·49	..	..	..	..	..

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

GANJAM MINOR RIVERS SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (cost of construction estimate closed on 31st March 1900).	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
I. WORKS—					
(1) *Head Works*—					
C. Works	1,647	...	1,647	1,647	1,647
Total ...	1,647	...	1,647	1,647	1,647
(2) *Main Canals and Branches*—					
A. Preliminary expenses	...	...	...	...	...
B. Land	7,382	...	7,382	7,382	7,382
D. Regulators	35,912	...	35,912	35,912	35,912
E. Falls and weirs	3,591	...	3,591	3,591	3,591
F. (1) Other cross drainage works ...	11,676	...	11,676	11,676	11,676
G. Bridges	2,121	...	2,121	2,121	2,121
H. Escapes	15,686	...	15,686	15,686	15,686
I. Navigation works	...	...	...	...	...
K. Buildings	1,712	...	1,712	1,712	1,712
L. Earthwork	27,201	...	27,201	27,201	27,201
M. Plantations	...	...	...	...	...
N. Tanks and reservoirs	2,922	...	2,922	2,922	2,922
O. Miscellaneous	2,220	...	2,220	2,220	2,220
P. Maintenance...	...	...	..	...	...
Total ...	1,10,423	..	1,10,423	1,10,423	1,10,423
(3) *Distributaries*—					
A. Preliminary expenses	...	...	...	...	...
B. Land	2,889	...	2,889	2,889	2,889
C. Works	51,904	...	51,904	51,904	51,904
L. Earthwork	11,610	...	11,610	11,610	11,610
O. Miscellaneous	404	...	404	404	404
Total ...	66,807	...	66,807	66,807	66,807
(4) *Drainage and Protective Works*—					
B. Land...	7,646	...	7,646	7,646	7,646
C. Works	3,584	...	3,584	3,584	3,584
L. Earthwork	16,097	...	16,097	16,097	16,097
O. Miscellaneous	210	...	210	210	210
Total ...	27,537	...	27,537	27,537	27,537
(5) *Special tools and plant*	...	...	...	...	...
Add—Unclassifiable outlay	7,929	...	7,929	7,929	7,929
Total Works ...	2,14,343	...	2,14,343	2,14,343	2,14,343
II. ESTABLISHMENT	43,700	...	43,700	43,700	43,700
III. TOOLS AND PLANT	139	...	139	139	139
Grand Total ...	2,58,182	...	2,58,182	2,58,182	2,58,182
IV. *Less*—RECEIPTS ON CAPITAL ACCOUNT ...	...	...	...	...	...
* Net Total ...	2,58,182	...	2,58,182	2,58,182	2,58,182

* Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. MADRAS PRESIDENCY.

GANJAM MINOR RIVERS SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.	Charges.	Total Previous.	1918–1919.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
1. Water-rates from irrigation ..	62	..	62	(1) Head works	560	51	611
2. Owner's rates ..	139	..	139	(2) Main canals and branches ..	35,087	236	35,323
3. Receipts from sale of water ..	734	..	734	(3) Distributaries	78,995	440	79,435
5. Receipts from plantations ..	1,414	32	1,446	(4) Drainage and protective works ..	5,713	..	5,713
6. Receipts from other canal produce ..	6,043	..	6,043	(5) Special tools and plant ..	..	..	..
11. Miscellaneous ..	822	77	899	Total ..	1,20,355	727	1,21,082
				II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in Public Works Department	9,214	109	9,323	(1) Head works	2,586	..	2,686
Irrigation Revenue realized in Civil Department ..	15,50,686	43,869	15,94,555	(2) Main canals and branches ..	3,04,008	9,731	3,13,739
				(3) Distributaries	1,99,748	6,075	2,05,823
				(4) Drainage and protective works ..	4,817	..	4,817
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	2,969	..	2,969
				Total ..	5,14,228	15,806	5,30,034
				Total, Extensions and Improvements and Maintenance and Repairs ..	6,34,583	16,533	6,51,116
				IV. ESTABLISHMENT	1,40,367	5,987	1,46,354
				V. TOOLS AND PLANT	— 8	398	390
Total, Direct Receipts ..	15,59,900	43,978	16,03,878	VI. REFUNDS OF REVENUE	5	..	5
				Total, Direct Charges ..	7,74,947	22,918	7,97,865
II. INDIRECT RECEIPTS—							
Share of Land Revenue collected in the Civil Department ..	3,66,643	7,324	3,73,967	Share of collection charges in the Civil department.	95,867	2,560	98,427
				Indirect charges	28,688	838	29,526
				Total, Direct and Indirect Charges.	8,99,502	26,316	9,25,818
Total, Public Works and Civil Departments, Revenue ..	19,26,543	51,302	19,77,845	* Deduct—old maintenance charges saved to Government.	11,732	6,689	18,421
				Net Revenue ..	8,87,770	19,627	9,07,397
				Balance, net revenue	10,38,773	31,675	10,70,448
Total, Receipts ..	19,26,543	51,302	19,77,845	Grand Total ..	19,26,543	51,302	19,77,845

* Direct—

	RS.
Extensions and improvements	1,529
Maintenance and repairs	3,126
Establishment	1,686
Tools and plant	112
	6,453
Indirect	236
Total ..	6,689

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalisation of abatement of land revenue ..	4,084	..	4,084
Leave and pension allowances	6,119	..	6,119
Total ..	10,203	..	10,203
REVENUE—			
Capitalisation of abatement of land revenue	9,050	..	9,050
Leave and pension allowances	19,638	838	20,476
Total ..	28 688	838	29,526
Grand Total ..	38,891	838	39,729

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

GANJAM MINOR RIVERS SYSTEM—*Canal Project.*

No. 6.—Statement comparing Charges to date with sanctioned estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and Date.	Amount of estimate.
Direct charges.	RS.	RS.	RS.			RS.	RS.		RS.
Works ..	1,02,797	1,11,546	2,14,343	..	..	..	2,14,343		
Establishment ..	23,382	20,318	43,700	..	..	..	43,700		
Tools and plant ..	..	139	139	..	..	..	139		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	1,26,179	1,32,003	2,58,182	..	..	..	2,58,182		
Less—Receipts on Capital account ..	..	..	..	..	..	..	..		
Net total ..	1,26,179	1,32,003	2,58,182	..	..	..	2,58,182		
Indirect charges.									
Capitalized abatement of land revenue ..	..	4,084	4,084	..	..	..	4,084		
Leave and pension allowances	3,274	2,845	6,119	..	..	..	6,119		
Total ..	3,274	6,929	10,203	..	..	..	10,203		
Grand Total ..	1,29,453	1,38,932	2,68,385	..	..	..	2,68,385		

MUNIYERU PROJECT—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated.	Expenditure against closed estimates.
	Previous.	1918–1919.	Total.		
I. WORKS—	RS.		RS.	RS.	
(1) *Head Works*—					
A. Preliminary expenses	57	..	57	57	..
C. Works	54,547	..	54,547	81,290	..
K. Buildings	4,205	..	4,205	4,205	..
P. Maintenance	9,815	..	9,815	10,169	..
Total ..	68,624	..	68,624	95,721	..
(2) *Main Canals and Branches*—					
B. Land	10,011	..	10,011	10,000	..
D. Regulators	12,042	..	12,042	12,042	..
E. Falls and weirs	..	..	..	..	..
F. River and hill torrent works.. ..	3,046	..	3,046	7,524	..
F. (1) Other cross drainage works ..	85,903	..	85,903	86,088	..
G. Bridges	18,938	..	18,938	18,854	..
H. Escapes	..	..	..	..	..
K. Buildings	4,586	..	4,586	4,731	..
L. Earthwork	1,83,745	..	1,83,745	2,01,950	..
N. Tanks and reservoirs	6,359	..	6,359	6,879	..
O. Miscellaneous	2,734	..	2,734	2,884	..
P. Maintenance	107	..	107	107	..
Total ..	3,27,471	..	3,27,471	3,51,010	..
(3) *Distributaries*—					
C. Works	23,437	..	23,437	25,395	..
L. Earthwork..	41,198	..	41,198	49,222	..
O. Miscellaneous	2,449	..	2,449	2,550	..
Total ..	67,084	..	67,084	77,167	..
(5) *Special tools and plant*—					
Provision for unforeseen works..	..	..	..	17,640	..
Total, Works ..	4,63,179	..	4,63,179	5,41,538	..
II. ESTABLISHMENT	1,03,806	..	1,03,806	1,22,194	..
III. TOOLS AND PLANT	3,713	..	3,713	7,702	..
Grand Total ..	5,70,698	..	5,70,698	6,71,434	..
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	1,732	..	1,732	..	..
(a) Net Total ..	5,68,966	..	5,68,966	6,71,434	..

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. MADRAS PRESIDENCY.

MUNIYERU PROJECT—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	504	..	504	(1) Head works	2,471	..	2,471
6. Receipts from other canal produce ..	3,096	424	3,520	(2) Main canals and branches ..	3,188	233	3,421
9. Rents of buildings ..	1,039	27	1,066	(3) Distributaries	902	..	902
11. Miscellaneous ..	4,264	..	4,264	(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant.. ..	..	..	..
				Total ..	6,561	233	6,794
				II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in Public Works Department ..	8,903	451	9,354	(1) Head works	44,410	2,106	46,516
				(2) Main canals and branches ..	57,007	3,151	60,158
				(3) Distributaries	15,375	685	16,060
				(4) Drainage and protective works ..	..	..	..
Irrigation Revenue realized in Civil Department ..	2,83,597	21,338	3,04,935	(5) Special tools and plant.. ..	..	..	..
				Add—Unclassifiable outlay ..	..	..	..
				Total ..	1,16,792	5,942	1,22,734
Total, Direct Receipts ..	2,92,500	21,789	3,14,289	Total, Extensions and Improvements and Maintenance and Repairs ..	1,23,353	6,175	1,29,528
II. INDIRECT RECEIPTS—				IV. ESTABLISHMENT	27,990	3,057	31,047
Share of Land Revenue collected in the Civil Department ..	1,915	60	1,975	V. TOOLS AND PLANT	1,247	96	1,343
				VI. REFUNDS OF REVENUE	51	..	51
				Total, Direct Charges ..	1,52,641	9,328	1,61,969
Total, Public Works and Civil Departments, Revenue	2,94,415	21,849	3,16,264	Share of collection charges in the Civil Department	14,277	1,070	15,347
				Indirect Charges	3,905	428	4,333
				Total, Direct and Indirect Charges ..	1,70,823	10,826	1,81,649
				* Deduct old maintenance charges saved to Government.	560	350	910
				Total, Direct and Indirect charges ..	1,70,263	10,476	1,80,739
				Balance, net revenue	1,24,152	11,373	1,35,525
Total, Receipts ..	2,94,415	21,849	3,16,264	Grand Total ..	2,94,415	21,849	3,16,264

* Direct—

	RS.
Extensions and improvements ..	..
Maintenance and repairs ..	222
Establishment ..	110
Tools and plant ..	3
Total ..	335
Indirect ..	15
Total ..	350

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	15,104	..	15,104
Leave and pension allowances	14,532	..	14,532
Total ..	29,636	..	29,636
REVENUE—			
Leave and pension allowances	3,905	428	4,333
Grand Total .	33,541	428	33,969

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

MUNIYERU PROJECT—*Canal Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.				RS.	RS.	RS.	RS.	*Direct Charges.*	RS.
Works	..	..	..	4,63,179	5,41,538	78,359	4,63,179	518 I., 8th July 1898.	4,84,800
Establishment ..	..	..	..	1,03,806	1,22,194	18,388	1,03,806	163 I., 17th Feb. 1899.	10,000
Tools and plant ..	..	..	..	3,713	7,702	3,989	3,713	270 I., 17th Mar. 1900.	9,182
Suspense account ..	..	..	..	..	..	..	..	798 I., 17th July 1902.	27,000
Total ..	..	..	..	5,70,698	6,71,434	1,00,736	5,70,698	690 I., 24th June 1904.	4,700
Less—Receipts on Capital account ..	..	..	..	1,732	..	—1,732	1,732	266 I., 1st Sep. 1911.	1,856
Net Total ..	..	..	..	5,68,966	6,71,434	1,02,468	5,68,966	253 I., 20th May 1915.	4,000
								Total ..	5,41,538
Indirect Charges.								*Indirect Charges.* 518 I., 8th July 1898.	28,000
Capitalized abatement of land revenue ..	..	..	..	15,104	12,389	—2,715	15,104		
Leave and pension allowances	..	..	..	14,532	15,611	1,079	14,532		
Total ..	..	..	..	29,636	28,000	—1,636	29,636		
Grand Total ..	..	..	..	5,98,602	6,99,434	1,00,832	5,98,602		

PEDDINAYUDU TANK OF CHINNARAOPALEM—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
	RS.		RS.	RS.	
I. WORKS—					
(1) *Head Works*—					
B. Land	8,833	..	8,833	8,833	..
C. Works	38,551	..	38,551	38,551	..
O. Miscellaneous	90	..	90	38	..
P. Maintenance	226	..	226	292	..
Total ..	47,700	..	47,700	47,714	..
(2) *Main Canals and Branches*—					
B. Land	382	..	382	382	..
C. Works	1,211	..	1,211	1,212	..
L. Earthwork	2,020	..	2,020	2,020	..
O. Miscellaneous	81	..	81	81	..
Total ..	3,694	..	3,694	3,695	..
(3) *Distributaries*—					
B. Land	106	..	106	106	..
C. Works	44	..	44	44	..
L. Earthwork	775	..	775	775	..
O. Miscellaneous	..	..	..	..	..
Total ..	925	..	925	925	..
(5) *Special tools and plant*—	..	..	..	..	..
Provision for unforeseen works	..	..	..	6,034	..
Total, Works ..	52,319	..	52,319	58,368	..
II. ESTABLISHMENT	9,779	..	9,779	9,866	..
III. TOOLS AND PLANT	..	..	..	..	..
(a) Grand Total ..	62,098	..	62,098	68,234	..

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

PEDDINAYUDU TANK OF CHINNARAOPALEM—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations	1,164	..	1,164	(1) Head works	..	..	..
6. Receipts from other canal produce ..	3,243	864	4,107	(2) Main canals and branches ..	116	..	116
8. Navigation receipts.	..	..	..	(3) Distributaries	..	..	..
9. Rents of buildings ..	..	..	..	(4) Drainage and protective works	188	..	188
10. Fines	..	..	..	(5) Special tools and plant.. ..	..	..	..
11. Miscellaneous ..	909	..	905	Total ..	304	..	304
Receipts for which classification is not obtainable ..	..	..	..	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	138	..	138
				(2) Main canals and branches ..	837	70	907
Total revenue realized in the Public Works Department ..	5,316	864	6,180	(3) Distributaries	..	..	..
				(4) Drainage and protective works ..	..	..	..
Irrigation revenue realized in Civil Department.	2,581	163	2,744	(5) Special tools and plant.. ..	..	..	..
				Add—Unclassifiable outlay	..	..	..
				Total ..	975	70	1,045
Total, Direct Receipts ..	7,897	1,027	8,924	Total, Extensions and Improvements and Maintenance and Repairs ..	1,279	70	1,349
Total, Public Works and Civil Departments, Revenue ..	7,897	1,027	8,924	IV. ESTABLISHMENT	806	35	841
				V. TOOLS AND PLANT	..	1	1
				VI. REFUNDS OF REVENUE	20	74	94
				Total, Direct Charges ..	2,105	180	2,285
				Share of collection charges in the Civil Department.	129	8	137
				Indirect charges	112	5	117
				Total, Direct and Indirect Charges ..	2,346	193	2,539
				Balance, net revenue	5,551	834	6,385
Total, Receipts ..	7,897	1,027	8,924	Grand Total ..	7,897	1,027	8,924

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue..	28	..	28
Leave and pension allowances	1,368	..	1,369
Total ..	1,397	..	1,397
REVENUE—			
Leave and pension allowances	112	5	117
Total ..	112	5	117
Grand total ..	1,509	5	1,514

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

PEDDINAYUDU TANK OF CHINNARAOPALEM—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.				RS.	RS.	RS.	RS.	*Direct Charges.* 273 I., 27th July 1908.	RS. 58,368
Works	..	..	..	52,319	58,368	6,049	52,319		
Establishment	..	..	..	9,779	9,866	87	9,779		
Tools and plant	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	..	..	..	62,098	68,234	6,136	62,098		
Less—Receipts on Capital Account	..	..	..	..	..	..	..		
Net total ..	..	..	..	62,098	68,234	6,136	62,098		
Indirect Charges.								*Indirect Charges.* 273 I., 27th July 1908.	20,726
Capital abatement of land revenue	..	..	..	28	19,345	19,317	28		
Leave and pension allowances	..	..	..	1,369	1,381	12	1,369		
Total ..	..	..	..	1,397	20,726	19,329	1,397		
Grand total ..	..	..	..	63,495	88,960	25,465	63,495		

JANGAMESHWARAPURAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1908).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) *Head Works*—					
B. Land	13,487	..	13,487	13,487	13,487
C. Works	10,899	..	10,899	10,899	10,899
K. Buildings	..	..	..	..	..
L. Earthwork	6,959	..	6,959	6,959	6,959
O. Miscellaneous	72	..	72	72	72
Total ..	31,417	..	31,417	31,417	31,417
(3) *Distributaries*—					
B. Land	695	..	695	695	695
C. Works	7,500	..	7,500	7,500	7,500
L. Earthwork	12,704	..	12,704	12,704	12,704
O. Miscellaneous	248	..	248	248	248
Total ..	21,147	..	21,147	21,147	21,147
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	52,564	..	52,564	52,564	52,564
II. ESTABLISHMENT	8,689	..	8,689	8,689	8,689
III. TOOLS AND PLANT	..	..	..	..	..
Grand total ..	61,253	..	61,253	61,253	61,253
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	..	..	..	..	..
(a) Net total ..	61,253	..	61,253	61,253	61,253

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

JANGAMESHWARAPURAM TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations	2	..	2	(1) Head works	175	..	175
6. Receipts from other canal produce ..	1,070	..	1,070	(2) Main canals and branches ..	26	..	26
11. Miscellaneous ..	..	..	..	(3) Distributaries	215	..	215
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
Total, revenue realised in Public Works Department	1,072	..	1,072	Total ..	416	..	416
				II. MAINTENANCE AND REPAIRS—			
Irrigation revenue realized in Civil Department ..	5,903	1,407	7,310	(1) Head works	887	4	891
				(2) Main canals and branches ..	12	..	12
Total, Direct Receipts ..	6,975	1,407	8,382	(3) Distributaries	1,105	155	1,260
II. INDIRECT RECEIPTS—				(4) Drainage and protective works ..	467	..	467
				(5) Special tools and plant ..	..	..	..
Share of land revenue collected in the Civil Department	..	..	..	*Add*—Unclassifiable outlay ..	..	..	..
				Total ..	2,471	159	2,630
Total, Public Works and Civil Departments, Revenue	6,975	1,407	8,382	Total, Extensions and Improvements and Maintenance and Repairs ..	2,887	159	3,046
				IV. ESTABLISHMENT	728	79	807
				V. TOOLS AND PLANT	— 20	2	— 18
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	3,595	240	3,835
				Share of collection charges in the Civil Department	293	70	363
				Indirect charges	104	11	115
				Total, Direct and Indirect Charges ..	3,992	321	4,313
				Balance, net revenue	2,983	1,086	4,069
Total, Receipts ..	6,975	1,407	8,382	Grand Total ..	6,975	1,407	8,382

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	9,194	..	9,194
Leave and pension allowances	1,217	..	1,217
Total ..	10,411	..	10,411
REVENUE—			
Leave and pension allowances	104	11	115
Grand Total ..	10,515	11	10,526

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

JANGAMESHWARAPURAM TANK—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.				RS.		RS.
Works	50,980	1,584	52,564	..	..	..	52,564		
Establishment	8,352	337	8,689	..	..	..	8,689		
Tools and plant	..	..	..	..	..	..	..		
Suspense account.. ..	..	..	..	..	..	..	..		
Total ..	59,332	1,921	61,253	..	..	..	61,253		
Less—Receipts on Capital account.	..	..	..	..	..	..	..		
Net Total ..	59,332	1,921	61,253	..	..	..	61,253		
Indirect Charges.									
Capitalized abatement of land revenue.	9,194	..	9,194	..	..	..	9,194		
Leave and pension allowances.	1,170	47	1,217	..	..	..	1,217		
Total ..	10,364	47	10,411	..	..	..	10,411		
Grand Total ..	69,696	1,968	71,664	..	..	..	71,664		

ATMAKURU TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st August 1907).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) *Head Works*—					
B. Land	9,024	..	9,024	9,024	9,024
C. Works	36,966	..	36,966	36,966	36,966
K. Buildings	..	..	..	..	..
L. Earthwork	35,535	..	35,535	35,535	35,535
O. Miscellaneous	75	..	75	75	75
P. Maintenance	66	..	66	66	66
Total ..	81,666	..	81,666	81,666	81,666
(2) *Main Canals and Branches*—					
A. Preliminary expenses	..	..	..	..	..
B. Land	..	..	..	..	..
E. Falls and weirs	..	..	..	..	..
F. (1) Other cross drainage works ..	..	..	..	..	..
G. Bridges	..	..	..	..	..
K. Buildings	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	..	..	..	..	..
(3) *Distributaries*—					
B. Land	493	..	493	493	493
C. Works	3,282	..	3,282	3,282	3,282
L. Earthwork	5,512	..	5,512	5,512	5,512
O. Miscellaneous	249	..	249	249	249
P. Maintenance..	..	..	..	..	..
Total ..	9,536	..	9,536	9,536	9,536
Provision for unforeseen works	..	..	..	..	..
Total Works ..	91,202	..	91,202	91,202	91,202
II. ESTABLISHMENT	18,749	..	18,749	18,749	18,749
III. TOOLS AND PLANT	..	..	..	..	..
(a) Grand Total ..	1,09,951	..	1,09,951	1,09,951	1,09,951

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

ATMAKURU TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
3. Sale of water ..	..	..	..	(1) Head works	766	..	766
4. Water-supply of towns	..	..	..	(2) Main canals and branches ..	..	..	..
5. Receipts from plantations	..	..	..	(3) Distributaries	136	..	136
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
6. Receipts from other canal produce ..	1	..	1	Total ..	902	..	902
8. Navigation receipts.	..	..	..	II. MAINTENANCE AND REPAIRS—			
9. Rents of buildings ..	..	..	..	(1) Head works	2,703	71	2,774
10. Fines	..	..	..	(2) Main canals and branches ..	..	..	..
11. Miscellaneous ..	5	..	5	(3) Distributaries	644	..	644
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
Total, Revenue realized in the Public Works Department ..	6	..	6	*Add*—Unclassifiable outlay ..	..	..	..
				Total ..	3,347	71	3,418
Irrigation Revenue realised in Civil Department	11,542	3,412	14,954	Total, Extensions and Improvements and Maintenance and Repairs ..	4,249	71	4,320
Total, Direct Receipts ..	11,548	3,412	14,960	IV. ESTABLISHMENT	899	35	934
				V. TOOLS AND PLANT	..	1	1
II. INDIRECT RECEIPTS—				VI. REFUNDS OF REVENUE	..	..	..
Share of Land Revenue collected in the Civil Department ..	..	..	..	Total, Direct Charges ..	5,148	107	5,255
				Share of collection charges in the Civil Department	576	171	747
Total, Public Works and Civil Departments, Revenue	11,548	3,412	14,960	Indirect charges	126	5	131
				Total, Direct and Indirect Charges ..	5,850	283	6,133
				Balance, net revenue	5,698	3,129	8,827
Grand Total ..	11,548	3,412	14,960	Grand Total ..	11,548	3,412	14,960

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	10,802	..	10,802
Leave and pension allowances	2,626	..	2,626
Total ..	13,428	..	13,428
REVENUE—			
Leave and pension allowances	126	5	131
Grand Total ..	13,554	5	13,559

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

ATMAKURU TANK—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.		RS.				RS.		
Works	91,202	...	91,202	..	...	...	91,202		
Establishment ...	18,749	...	18,749	...	...	...	18,749		
Tools and plant...	...	...	...	...	...	...	...		
Suspense account.	...	...	...	...	...	...	...		
Total ...	1,09,951	...	1,09,951	...	...	...	1,09,951		
Less—Receipts on Capital Account.	...	...	...	...	...	...	...		
Net Total ...	1,09,951	...	1,09,951	...	...	...	1,09,951		
Indirect Charges.									
Capitalized abatement of land revenue ...	10,802	...	10,802	...	...	...	10,802		
Leave and pension allowances ...	2,626	...	2,626	..	...	...	2,626		
Total ...	13,428	...	13,428	...	...	...	13,428		
Grand Total ...	1,23,379	...	1,23,379	...	...	...	1,23,379		

DONDAPAD TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1903).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) *Head Works*—					
B. Land	22,423	..	22,423	22,423	22,423
C. Works	28,821	..	28,821	28,821	28,821
L. Earthwork	38,320	..	38,320	38,320	38,320
P. Maintenance	10	..	10	10	10
Total ..	89,574	..	89,574	89,574	89,574
(3) *Distributaries*—					
B. Land	838	..	838	838	838
C. Works	5,456	..	5,456	5,456	5,456
L. Earthwork	9,860	..	9,860	9,860	9,860
O. Miscellaneous	120	..	120	120	120
Total ..	16,274	..	16,274	16,274	16,274
Total, Works ..	1,05,848	..	1,05,848	1,05,848	1,05,848
II. ESTABLISHMENT	18,945	..	18,945	18,945	18,945
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	1,24,793	..	1,24,793	1,24,793	1,24,793
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	7	..	7	7	7
(a) Net Total ..	1,24,786	..	1,24,786	1,24,786	1,24,786

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

DONDAPAD TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	165	..	165	(1) Head works	73	..	73
6. Receipts from other canal produce ..	631	..	631	(2) Main canals and branches ..	..	..	..
11. Miscellaneous ..	230	..	230	(3) Distributaries	11	..	11
				(4) Drainage and productive works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
Total, Revenue realised in Public Works Department	1,026	..	1,026	Total ..	84	..	84
Irrigation Revenue realised in Civil Department ..	14,066	722	14,788	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	6,803	..	6,803
				(2) Main canals and branches ..	144	..	144
				(3) Distributaries	1,296	1,863	3,159
Total, Direct Receipts ..	15,092	722	15,814	(4) Drainage and productive works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	..	..	..
				Total ..	8,243	1,863	10,106
INDIRECT RECEIPTS—							
Share of Land Revenue collected in the Civil Department ..	56	3	59	Total, Extensions and Improvements and Maintenance and Repairs	8,327	1,863	10,190
Total, Public Works and Civil Departments, Revenue	15,148	725	15,873	IV. ESTABLISHMENT	1,987	922	2,909
				V. TOOLS AND PLANT	..	29	29
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	10,314	2,814	13,128
				Share of collection charges in the Civil Department	705	36	741
				Indirect charges	276	129	405
				Total, Direct and Indirect Charges ..	11,295	2,979	14,274
				Balance, net revenue	3,853	— 2,254	1,599
Total, Receipts ..	15,148	725	15,873	Grand Total ..	15,148	725	15,873

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalisation of abatement of land revenue	12,566	..	12,566
Leave and pension allowances	2,652	..	2,652
Total ..	15,218	..	15,218
REVENUE—			
Leave and pension allowances	276	129	405
Grand Total ..	15,494	129	15,623

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		
Works	96,521	9,327	1,05,848	..	..	..	1,05,848		
Establishment ..	17,017	1,928	18,945	..	..	..	18,945		
Tools and plant ..	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	1,13,538	11,255	1,24,793	..	..	..	1,24,793		
Less—Receipts on capital account ..	7	..	7	..	..	..	7		
Net Total ..	1,13,531	11,255	1,24,786	..	..	..	1,24,786		
Indirect charges.									
Capitalised abatement of land revenue ..	12,062	504	12,566	..	..	..	12,566		
Leave and pension allowances ..	2,382	270	2,652	..	..	..	2,652		
Total ..	14,444	774	15,218	..	..	..	15,218		
Grand Total ..	1,27,975	12,029	1,40,004	..	..	..	1,40,004		

HAJIPURAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated. (Construction estimate closed on 31st March 1911.)	Expenditure against closed estimate.
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
B. Land	19,227	..	19,227	19,227	19,227
C. Works	28,750	..	28,750	28,750	28,750
K. Buildings	913	..	913	913	913
L. Earthwork	1,66,992	..	1,66,992	1,66,992	1,66,992
P. Maintenance	3,842	..	3,842	3,842	3,842
O. Miscellaneous	..	..	..	..	..
Total ..	2,19,724	..	2,19,724	2,19,724	2,19,724
(3) *Distributaries*—					
B. Land	1,156	..	1,156	1,156	1,156
C. Works	3,869	..	3,869	3,869	3,869
L. Earthwork	5,421	..	5,421	5,421	5,421
O. Miscellaneous	516	..	516	516	516
Total ..	10,962	..	10,962	10,962	10,962
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	2,30,686	..	2,30,686	2,30,686	2,30,686
II. ESTABLISHMENT	48,308	..	48,308	48,308	48,308
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	2,78,994	..	2,78,994	2,78,994	2,78,994
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	220	..	220	220	220
(a) Net Total ..	2,78,774	..	2,78,774	2,78,774	2,78,774

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
Receipts from other canal produce ..	101	..	101
Miscellaneous ..	4,434	74	4,508
Total, Revenue realized in Public Works Department ..	4,535	74	4,609
Irrigation Revenue realized in Civil Department ..	9,837	3,129	12,966
Total, Direct Receipts.	14,372	3,203	17,575
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department ..	121	15	136
Total, Public Works and Civil Departments, Revenue ..	14,493	3,218	17,711
Total, Receipts ..	14,493	3,218	17,711

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	..	..	..
(2) Main canals and branches ..	..	..	..
(3) Distributaries	..	..	..
(4) Drainage and protective works ..	130	..	130
(5) Special tools and plant ..	..	..	..
Total ..	130	..	130
II. MAINTENANCE AND REPAIRS—			
(1) Head works	..	..	..
(2) Main canals and branches ..	83	..	83
(3) Distributaries	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	..	..	..
Total ..	83	..	83
Total, Extensions and Improvements and Maintenance and Repairs ..	213	..	213
IV. ESTABLISHMENT	403	..	403
V. TOOLS AND PLANT	..	..	..
VI. REFUNDS OF REVENUE	..	..	..
Total, Direct Charges ..	616	..	616
Share of collection charges in the Civil Department	498	157	655
Indirect charges	160	..	160
Total, Direct and Indirect Charges ..	1,274	157	1,431
Balance, net revenue ..	13,219	3,061	16,280
Grand Total ..	14,493	3,218	17,711

HAJIPURAM TANK—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ...	26,346	...	26,346
Leave and pension allowances	6,763	...	6,763
Total ...	33,109	...	33,109
REVENUE—			
Capitalization of abatement of land revenue ...	105	...	105
Leave and pension allowances	55	...	55
Total ...	160	...	160
Grand Total ...	33,269	...	33,269

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
	RS.	RS.	RS.		RS.	RS.	RS.		RS.
Direct Charges.									
Works	2,28,024	2,662	2,30,686	...	...	...	2,30,686		
Establishment ...	47,880	428	48,308	...	...	...	48,308		
Tools and plant ...	...	...	...	...	...	...	...		
Suspense account ...	...	...	...	...	...	...	...		
Total ...	2,75,904	3,090	2,78,994	...	...	...	2,78,994		
Less—Receipts on Capital account .	220	...	220	...	...	...	220		
Net Total ...	2,75,684	3,090	2,78,774	...	...	...	2,78,774		
Indirect Charges.									
Capitalized abatement of land revenue	25,879	467	26,346	...	...	...	26,346		
Leave and pension allowances ...	6,703	60	6,763	...	...	...	6,763		
Total ...	32,582	527	33,109	...	...	...	33,109		
Grand Total ...	3,08,266	3,617	3,11,883	...	...	...	3,11,883		

PONNALUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1911).	Expenditure against closed estimate.
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
B. Land	20,407	...	20,407	20,407	20,407
C. Works	42,631	4,655	47,286	53,902	29,642
K. Buildings	411	...	411	411	411
L. Earthwork	73,402	...	73,402	73,402	73,402
O. Miscellaneous	10,211	.	10,211	10,211	10,211
P. Maintenance	1,052	...	1,052	1,052	1,052
Total ...	1,48,114	4,655	1,52,769	1,59,885	1,35,125
(2) *Main Canals and Branches*—					
A. Preliminary expenses ..	...	...	.	...	...
B. Land	...	...	...	...	...
E. Falls and weirs	...	...	...	...	...
F. (1) Other cross drainage works	...	...	...	...	...
G. Bridges	...	...	...	...	
K. Buildings	...	...	...	...	...
L. Earthwork	...	...		...	...
O. Miscellaneous	..	..	...	...	...
P. Maintenance	...	...	...	...	...
Total ...	...	...	...	...	...
(3) *Distributaries*—					
B. Land	812	..	812	812	812
C. Works	1,103	...	1,103	2,213	1,103
L. Earthwork ...	1,715	...	1,715	1,715	1,715
O. Miscellaneous	594	..	594	594	594
P. Maintenance	...	...	...	...	..
Total ...	4,224	...	4,224	5,334	4,224
Provision for unforeseen works ...	...	...	...	...	...
Total, Works ...	1,52,338	4,655	1,56,993	1,64,719	1,39,349
II. ESTABLISHMENT	29,803	873	30,676	32 467	27,013
III. TOOLS AND PLANT	...	24	24	186	...
(a) Grand Total ...	1,82,141	5,552	1,87,693	1,97,372	1,66,362

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

PONNALUR TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations	..	..	..
6. Receipts from other canal produce ..	..	..	..
11. Miscellaneous ..	176	..	176
Total, Revenue realized in Public Works Department	176	..	176
Irrigation revenue realized in Civil Department ..	29,485	4,244	33,729
Total, Direct Receipts ..	29,661	4,244	33,905
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department	..	..	..
Total, Public Works and Civil Departments, Revenue	29,661	4,244	33,905
Total, Receipts ..	29,661	4,244	33,905

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	..	..	..
(2) Main canals and branches ..	..	..	..
(3) Distributaries	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	176	..	..
Total ..	..	..	..
II. MAINTENANCE AND REPAIRS—			
(1) Head works	29,037	3,500	32,537
(2) Main canals and branches ..	18,071	..	18,071
(3) Distributaries	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	..	..	..
Total ..	47,108	3,500	50,608
Total, Extensions and Improvements and Maintenance and Repairs ..	47,108	3,500	50,608
IV. ESTABLISHMENT	10,417	657	11,074
V. TOOLS AND PLANT	..	18	18
VI. REFUNDS OF REVENUE	..	..	..
Total, Direct Charges ..	57,525	4,175	61,700
Share of collection charges in the Civil Department	1,476	212	1,688
Indirect charges	1,459	92	1,551
Total, Direct and Indirect Charges ..	60,460	4,479	64,939
Balance, net revenue ..	**—30,799**	— 235	— 31,034
Grand Total ..	29,661	4,244	33,905

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	21,230	..	21,230
Leave and pension allowances	4,172	122	4,294
Total ..	25,402	122	25,524
REVENUE—			
Leave and pension allowances	1,459	92	1,551
Grand Total ..	26,861	214	27,075

IRRIGATION BRANCH. **PUBLIC WORKS DEPARTMENT.**

PONNALUR TANK—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	1,39,349	..	1,39,349	17,644	25,370	7,726	1,56,993		
Establishment	27,013	..	27,013	3,663	5,454	1,791	30,676		
Tools and plant ..	..	..	..	24	186	162	24		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	1,66,362	..	1,66,362	21,331	31,010	9,679	1,87,693		
Less—Receipts on Capital account	..	..	..	..	..	..	..		
Net Total ..	1,66,362	..	1,66,362	21,331	31,010	9,679	1,87,693	Mis. 368 I., 16th Nov 1918.	25,270
Indirect charges.									
Capitalized abatement of land revenue	21,230	..	21,230	..	..	..	21,230		
Leave and pension allowances	3,781	..	3,781	513	..	—513	4,294		
Total ..	25,011	..	25,011	513	..	—513	25,524		
Grand Total .	1,91,373	..	1,91,373	21,844	31,010	9,166	2,13,217		

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated. (construction estimate closed on 31st March 1910.)	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(2) *Main Canals and Branches*—					
B. Land	110	..	110	110	110
C. Works	6,282	..	6,282	6,282	6,282
F. River and hill torrent works ..	2,081	..	2,081	2,081	2,081
F. (1) Other cross drainage works	3,311	..	3,311	3,311	3,311
L. Earthwork	46,528	..	46,528	46,528	46,528
O. Miscellaneous	109	..	109	109	109
Total ..	58,421	..	58,421	58,421	58,421
Provision for unforeseen works ..	..	..	..	.	..
Total, Works ..	58,421	..	58,421	58,421	58,421
II. ESTABLISHMENT	13,266	..	13,266	13,266	13,266
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	71,687	..	71,687	71,687	71,687
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	..	..	..	..	..
(a) Net Total ..	71,687	..	71,687	71,687	71,687

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
6. Receipts from other canal produce	..	..	..	(1) Head works	..	..	..
9. Rents of buildings.	..	..	..	(2) Main canals and branches ..	..	..	..
11. Miscellaneous ..	32	..	32	(3) Distributaries	..	..	..
Total, Revenue realised in Public Works Department ..	32	..	32	(4) Drainage and protective works ..	..	..	..
Irrigation Revenue realized in Civil Department ..	3,825	337	4,162	(5) Special tools and plant—	..	..	..
				Total ..	..	..	..
				II. MAINTENANCE AND REPAIRS—			
				(1) Head works	..	..	..
				(2) Main canals and branches ..	2,871	..	2,871
				(3) Distributaries	..	..	..
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	..	..	..
Total, Direct Receipts ..	3,857	337	4,194	Total ..	2,871	..	2,871
II. INDIRECT RECEIPTS—							
Share of land revenue collected in the Civil Department ..	10	1	11	Total, Extensions and Improvements and Maintenance and Repairs	2,871	..	2,871
Total, Public Works and Civil Departments, Revenue ..	3,867	338	4,205	IV. ESTABLISHMENT	620	..	620
				V. TOOLS AND PLANT	..	..	..
				VI. REFUNDS OF REVENUE ..	..	..	..
				Total, Direct Charges ..	3,491	..	3,491
				Share of collection charges in the Civil department	192	17	209
				Indirect charges	87	..	87
				Total, Direct and Indirect Charges.	3,770	17	3,787
				Deduct— Old maintenance charges saved to Government	806	1,011	1,817
				Net total ..	2,964	—994	1,970
				Balance, net revenue ..	903	1,332	2,235
Total, Receipts ..	3,867	338	4,205	Grand Total ..	3,867	338	4,205

	RS.
Direct—	
Extensions and improvements	28
Maintenance and Repairs	612
Establishment	317
Tools and Plant	10
Total ..	967
Indirect	44
Total ..	1,011

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	30	..	30
Leave and pension allowances	1,856	..	1,856
Total ..	1,886	..	1,886
REVENUE—			
Leave and pension allowances	87	..	87
Grand Total ..	1,973	..	1,973

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	52,139	6,282	58,421	..	..	..	58,421		
Establishment	11,915	1,351	13,266	..	..	..	13,266		
Tools and plant ..	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	64,054	7,633	71,687	..	..	..	71,687		
Less—Receipts on Capital account	..	..	..	..	..	..	..		
Net Total ..	64,054	7,633	71,687	..	..	..	71,687		
Indirect Charges.									
Capitalized abatement of land revenue	30	..	30	..	..	..	30		
Leave and pension allowances	1,667	189	1,856	..	..	..	1,856		
Total ..	1,697	189	1,886	..	..	..	1,886		
Grand Total ..	65,751	7,822	73,573	..	..	..	73,573		

YERUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated. (construction estimate closed on 31st March 1907.)	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) *Head Works*—					
B. Land	..	..	..	..	..
C. Works	10,767	..	10,767	10,767	10,767
K. Buildings	..	..	..	..	..
L. Earthwork	39,452	..	39,452	39,452	39,452
O. Miscellaneous	..	..	..	..	..
Total ..	50,219	..	50,219	50,219	50,219
(3) *Distributaries*—					
B. Land	..	..	..	..	..
C. Works	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
Total ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total Works ..	50,219	..	50,219	50,219	50,219
II. ESTABLISHMENT	11,522	..	11,522	11,522	11,522
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	61,741	..	61,741	61,741	61,741
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	..	..	..	..	..
(a) Net Total ..	61,741	..	61,741	61,741	61,741

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

YERUR TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918-19.	Total.		Previous.	1918-19.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
6. Receipts from other canal produce ..	..	..	..	(1) Head works	..	..	..
9. Rents of buildings.	..	..	..	(2) Main canals and branches ..	..	..	..
11. Miscellaneous ..	..	..	..	(3) Distributaries	..	..	..
				(4) Drainage and protective works.	..	..	..
Total, Revenue realized in Public Works Department	..	..	..	(5) Special tools and plant ..	..	..	..
				Total ..	..	..	..
Irrigation Revenue realized in Civil Department ..	17,841	3,116	20,957	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	2,640	3,459	6,099
Total, Direct Receipts.	17,841	3,116	20,957	(2) Main canals and branches ..	..	..	..
				(3) Distributaries	..	..	..
				(4) Drainage and protective works.	..	..	..
II. INDIRECT RECEIPTS—				(5) Special tools and plant ..	..	..	..
Share of Land Revenue collected in the Civil Department ..	297	64	361	*Add*—Unclassifiable outlay ..	..	..	..
				Total ..	2,640	3,459	6,099
Total, Public Works and Civil Departments, Revenue ..	18,138	3,180	21,318	Total, Extensions and Improvements and Maintenance and Repairs	2,640	3,459	6,099
				IV. ESTABLISHMENT	567	649	1,216
				V. TOOLS AND PLANT	..	18	18
				VI. REFUNDS OF REVENUE ..	..	..	..
				Total, Direct Charges .	3,207	4,126	7,333
				Share of collection charges in the Civil department	908	159	1,067
				Indirect charges	80	91	171
				Total, Direct and Indirect Charges ..	4,195	4,376	8,571
				Balance, net revenue	13,943	— 1,196	12,747
Total, Receipts ..	18,138	3,180	21,318	Grand Total ..	18,138	3,180	21,318

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918-1919.	Total.
	RS.		RS.
CAPITAL—			
Leave and pension allowances	1,612	..	1,612
Total ..	1,612	..	1,612
REVENUE—			
Leave and pension allowances	80	91	171
Grand Total ..	1,692	91	1,783

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

YERUR TANK—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.				RS.		
Works	48,303	1,916	50,219	..	..	..	50,219		
Establishment	11,110	412	11,522	..	..	..	11,522		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	59,413	2,328	61,741	..	..	..	61,741		
Less—Receipts on capital account	..	..	..	..	..	..	..		
Net Total ..	59,413	2,328	61,741	..	..	..	61,741		
Indirect Charges									
Capitalized abatement of land revenue	..	..	..	..	..	..	..		
Leave and pension allowances	1,555	57	1,612	..	..	..	1,612		
Total ..	1,555	57	1,612	..	..	..	1,612		
Grand Total ..	60,968	2,385	63,353	..	..	..	63,353		

VAMULA TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1905).	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) *Head Works*—					
B. Land	2,153	..	2,153	2,153	2,153
C. Works	4,218	..	4,218	4,218	4,218
K. Buildings	..	..	..	..	..
L. Earthwork	42,903	..	42,903	42,903	42,903
O. Miscellaneous	281	..	281	281	281
Total ..	49,555	..	49,555	49,555	49,555
(3) *Distributaries*—					
B. Land	..	..	..	..	..
C. Works	89	..	89	89	89
L. Earthwork	1,317	..	1,317	1,317	1,317
O. Miscellaneous	..	..	..	..	..
Total ..	1,406	..	1,406	1,406	1,406
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	50,961	..	50,961	50,961	50,961
II. ESTABLISHMENT	11,225	..	11,225	11,225	11,225
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	62,186	..	62,186	62,186	62,186
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	..	..	..	..	..
(a) Net Total ..	62,186	..	62,186	62,186	62,186

(a) Chargeable to '43. Minor Works and Navigation—Provincial.'

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19. **MADRAS PRESIDENCY.**

VAMULA TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918-1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918-1919.	Total.		Previous.	1918-1919.	Total.
DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—	RS.		RS.
6. Receipts from other canal produce ..	..	..	..	(1) Head works	..	..	..
9. Rents of buildings.	..	..	..	(2) Main canals and branches ..	306	..	306
11. Miscellaneous ..	..	..	..	(3) Distributaries	148	..	148
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
Total, Revenue realized in Public Works Department ..	..	..	..	Total ..	454	..	454
Irrigation Revenue realized in Civil Department ..	..	..	..	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	..	..	..
				(2) Main canals and branches ..	..	..	..
				(3) Distributaries	..	..	..
Total, Direct Receipts.	..	..	..	(4) Drainage and protective works ..	..	..	..
II. INDIRECT RECEIPTS—				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	..	..	..
Share of Land Revenue collected in the Civil Department ..	..	..	..	Total ..	..	..	..
				Total, Extensions and Improvements and Maintenance and Repairs	454	..	454
Total, Public Works and Civil Departments, Revenue ..	..	..	..	IV. ESTABLISHMENT	34	..	34
				V. TOOLS AND PLANT	..	..	..
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	488	..	488
				Share of collection charges in the Civil Department	..	..	..
				Indirect Charges	5	..	5
				Total, Direct and Indirect Charges.	493	..	493
				Balance, net revenue	— 493	..	— 493
Total, Receipts ..	..	..	..	Grand Total ..	..	..	..

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	RS.		RS.
CAPITAL—			
Leave and pension allowances	1,571	..	1,571
Total ..	1,571	..	1,571
REVENUE—			
Leave and pension allowances	5	..	5
Total ..	5	..	5
Grand Total ..	1,576	..	1,576

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

VAMULA TANK—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.		RS.				RS.		
Works	50,961	..	50,961	..	..	..	50,961		
Establishment	11,225	..	11,225	..	..	..	11,225		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	62,186	..	62,186	..	..	..	62,186		
Less—Receipts on Capital Account	..	..	..	..	..	..	..		
Net Total ..	62,186	..	62,186	..	..	..	62,186		
Indirect Charges.									
Capitalized abatement of land revenue	..	..	..	..	..	..	..		
Leave and pension allowances	1,571	..	1,571	..	..	..	1,571		
Total ..	1,571	..	1,571	..	..	..	1,571		
Grand Total ..	63,757	..	63,757	..	..	..	63,757		

SAGILERU SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1907).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
I. WORKS—					
(1) *Head Works*—	RS.		RS.	RS.	RS.
A. Preliminary expenses	3,855	..	3,855	3,855	3,855
B. Land	1,298	..	1,298	1,298	1,298
C. Works	75,377	..	75,377	75,377	75,377
K. Buildings	10,668	..	10,668	10,668	10,668
O. Miscellaneous	164	..	164	164	164
P. Maintenance	231	..	231	231	231
Total ..	91,593	..	91,593	91,593	91,593
(2) *Main Canals and Branches*—					
B. Land	2,804	..	2,804	2,804	2,804
D. Regulators	25,785	..	25,785	25,785	25,785
F. (1) Other cross drainage works ..	46,581	..	46,581	46,581	46,581
G. Bridges	23,832	..	23,832	23,832	23,832
H. Escapes	8,062	..	8,062	8,062	8,062
K. Buildings	2,460	..	2,460	2,460	2,460
L. Earthwork	1,22,383	..	1,22,383	1,22,383	1,22,383
N. Tanks and reservoirs	28,388	..	28,388	28,388	28,388
O. Miscellaneous	1,669	..	1,669	1,669	1,669
P. Maintenance	764	..	764	764	764
Total ..	2,62,728	..	2,62,728	2,62,728	2,62,728
(3) *Distributaries*—					
L. Earthwork	..	..	..	..	..
Total ..	..	..	..	..	..
(5) Special tools and plant	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	3,54,321	..	3,54,321	3,54,321	3,54,321
II. ESTABLISHMENT	80,339	..	80,339	80,339	80,339
III. TOOLS AND PLANT	12,449	..	12,449	12,449	12,449
Grand Total ..	4,47,109	..	4,47,109	4,47,109	4,47,109
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	1	..	1	1	1
(a) Net Total ..	4,47,108	..	4,47,108	4,47,108	4,47,108

(a) Chargeable to '48. Minor Works and Navigation—Provincial.'

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. MADRAS PRESIDENCY.

SAGILERU SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations	43	..	43	(1) Head works	108	..	108
6. Receipts from other canal produce ..	45	17	62	(2) Main canals and branches ..	6,780	83	6,863
9. Rents of buildings ..	315	28	343	(3) Distributaries	688	..	688
11. Miscellaneous and other receipts ..	117	6	123	(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Total ..	7,576	83	7,659
				II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in Public Works Department ..	520	51	571	(1) Head works	2	11	13
				(2) Main canals and branches ..	48,756	1,215	49,971
Irrigation Revenue realized in Civil Department ..	79,529	— 10,100	68,429	(3) Distributaries	3,188	..	3,188
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	..	..	..
				Total ..	51,946	1,226	53,172
Total, Direct Receipts.	79,049	— 10,049	69,000				
				Total, Extensions and Improvements and Maintenance and Repairs	59,522	1,309	60,831
II. INDIRECT RECEIPTS—							
Share of Land Revenue collected in the Civil Department ..	168	4	172	IV. ESTABLISHMENT	12,800	840	13,640
				V. TOOLS AND PLANT	182	13	195
Total, Public Works and Civil Departments, Revenue ..	79,217	— 10,045	69,172	VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	72,504	2,162	74,666
				Share of collection charges in the Civil department	3,934	— 505	3,429
				Indirect charges	1,790	118	1,908
				Total, Direct and Indirect Charges ..	78,228	1,775	80,003
				Deduct old maintenance charges saved to Government ..	5,508	3,805	9,313
					72,720	— 2,030	70,690
				Balance, net revenue	6,497	— 8,015	— 1,518
Total, Receipts ..	79,217	— 10,045	69,172	Grand Total ..	79,217	— 10,045	69,172

* Direct—

	RS.
Extensions and Improvements	500
Maintenance and Repairs	1,685
Establishment	1,402
Tools and plant	22
Total ..	3,609
Indirect	196
Total ..	3,805

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	6,372	..	6,372
Leave and pension allowances	11,247	..	11,247
Total ..	17,619	..	17,619
REVENUE—			
Leave and pension allowances	1,790	118	1,908
Grand Total ..	19,409	118	19,527

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

SAGILERU SYSTEM—*Canal Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.		RS.				RS.		
Works	3,54,321	..	3,54,321	..	..	..	3,54,321		
Establishment	80,339	..	80,339	..	..	..	80,339		
Tools and plant ..	12,449	..	12,449	..	..	..	12,449		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	4,47,109	..	4,47,109	..	..	..	4,47,109		
Less—Receipts on capital account.	1	..	1	..	..	..	1		
Net total ..	4,47,108	..	4,47,108	..	..	..	4,47,108		
Indirect Charges.									
Capitalised abatement of land revenue.	6,372	..	6,372	..	..	..	6,372		
Leave and pension allowances	11,247	..	11,247	..	..	..	11,247		
Total ..	17,619	..	17,619	..	..	..	17,619		
Grand Total ..	4,64,727	..	4,64,727	..	..	..	4,64,727		

TALAPULA VANKA TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1907).	Expenditure against closed estimate.
	Previous.	1917-1918.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(2) *Main Canals and Branches*—					
B. Land	5,635	..	5,635	5,635	5,635
C. Works	4,849	..	4,849	4,849	4,849
K. Buildings	..	..	..	..	..
L. Earthwork	37,954	..	37,954	37,954	37,954
O. Miscellaneous	..	..	..	..	..
Total ..	48,438	..	48,438	48,438	48,438
(3) *Distributaries*—					
B. Land	..	..	..	..	..
C. Works	..	..	..	..	..
L. Earthwork	5,910	..	5,910	5,910	5,910
O. Miscellaneous	..	..	..	..	..
Total ..	5,910	..	5,910	5,910	5,910
(5) *Special tools and plant*—	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total Works ..	54,348	..	54,348	54,348	54,348
II. ESTABLISHMENT	11,204	..	11,204	11,204	11,204
III. TOOLS AND PLANT	731	..	731	731	731
Grand Total ..	66,283	..	66,283	66,283	66,283
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	..	..	..	..	..
Net Total ..	66,283	..	66,283	66,283	66,283
Apportionment—					
Chargeable to 49. Irrigation ..	..	..	..	..	..
Chargeable to 48. Minor Works and Navigation—					
Provincial	61,239	..	61,239	..	..
Chargeable to 33. Famine Relief ..	5,044	..	5,044	..	..
Total ..	66,283	..	66,283	..	..

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19. **MADRAS PRESIDENCY.**

TALAPULA VANKA TANK—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
CAPITAL—	RS.		RS.
Capitalisation of abatement of land revenue	972	..	972
Leave and pension allowances	1,569	..	1,569
Total ..	2,541	..	2,541
Grand Total ..	2,541	..	2,541

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.		RS.				RS.		
Works	54,348	..	54,348	..	..	..	54,348		
Establishment	11,204	..	11,204	..	..	..	11,204		
Tools and plant	731	..	731	..	..	..	731		
Suspense account	..	..	..	..	..	..	..		
Total ..	66,283	..	66,283	..	..	..	66,283		
Less—Receipts on Capital Account	..	..	..	..	..	..	..		
Net Total ..	66,283	..	66,283	..	..	..	66,283		
Indirect Charges.									
Capitalized abatement of land revenue	972	..	972	..	..	..	972		
Leave and pension allowances	1,569	..	1,569	..	..	..	1,569		
Total ..	2,541	..	2,541	..	..	..	2,541		
Grand Total ..	68,824	..	68,824	..	..	..	68,824		

CUMBUM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1896).	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(2) *Main Canals and Branches*—					
L. Earthwork	27,401	..	27,401	27,401	27,401
N. Tanks and reservoirs..	9,913	..	9,913	9,913	9,913
Total ..	37,314	..	37,314	37,314	37,314
(3) *Distributaries*—					
B. Land	1,136	..	1,136	1,136	1,136
C. Works	26,713	..	26,713	26,713	26,713
L. Earthwork	3,051	..	3,051	3,051	3,051
O. Miscellaneous	487	..	487	487	487
Total ..	31,387	..	31,387	31,387	31,387
(5) *Special tools and plant*—					
Total, Works ..	68,701	..	68,701	68,701	68,701
II. ESTABLISHMENT	15,284	..	15,284	15,284	15,284
III. TOOLS AND PLANT..	..	..	..	..	..
Grand Total ..	83,985	..	83,985	83,985	83,985
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	..	..	..	..	..
(a) Net Total ..	83,985	..	83,985	83,985	83,985

(a) Chargeable to "48. Minor Works and Navigation—Provincial."

CUMBUM TANK—*Tank Project.*

No. 3.—Revenue Accounts for and to end of 1918-1919.

Receipts.	Total. Previous.	1918-1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
6. Other canal produce.	111	..	111
Total, Revenue realized in Public Works Department ..	111	..	111
Irrigation Revenue realised in Civil Department ..	2,55,758	18,179	2,73,937
Total, Direct Receipts.	2,55,869	18,179	2,74,048
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department ..	19,557	461	20,018
Total, Public Works and Civil Departments, Revenue ..	2,75,426	18,640	2,94,066
Total, Receipts ..	2,75,426	18,640	2,94,066

Charges.	Total. Previous.	1918-1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	319	..	319
(2) Main canals and branches ..	1,661	272	1,933
(3) Distributaries	3,816	150	3,966
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	7,186	..	7,186
Total ..	12,982	422	13,404
II. MAINTENANCE AND REPAIRS—			
(1) Head works	519	572	1,091
(2) Main canals and branches ..	22,541	..	22,541
(3) Distributaries	16,018	5,625	21,643
(4) Drainage and protective works ..	1,047	..	1,047
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay	24,128	..	24,128
Total ..	64,253	6,197	70,450
Total, Extensions and Improvements and Maintenance and Repairs.	77,235	6,619	83,854
IV. ESTABLISHMENT	17,400	4,247	21,647
V. TOOLS AND PLANT	645	68	713
VI. REFUNDS OF REVENUE	..	..	..
Total, Direct Charges ..	95,280	10,934	1,06,214
Share of collection charges in the Civil department	13,765	938	14,703
Indirect charges	5,200	595	5,795
Total, Direct and Indirect Charges.	1,14,245	12,461	1,26,706
(a) *Deduct*—Old maintenance charges saved to Government	18,151	1,381	19,532
Net Total ..	96,094	11,080	1,07,174
Balance, net revenue	1,79,332	7,560	1,86,892
Grand Total ..	2,75,426	18,640	2,94,066

	RS.
(a) Extensions and Improvements	..
Maintenance and Repairs	793
Establishment	509
Tools and plant	8
Total, Direct charges ..	1,310
Indirect charges	71
Grand Total ..	1,381

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of Land Revenue ..	206	..	206
Leave and pension allowances	2,182	..	2,182
Total ..	2,388	..	2,388
REVENUE—			
Capitalization of abatement of Land Revenue ..	2,764	..	2,764
Leave and pension allowances	2,436	595	3,031
Total ..	5,200	595	5,795
Grand Total ..	7,588	595	8,183

CUMBUM TANK—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.				RS.		
Works	37,314	31,387	68,701	..	..	..	68,701		
Establishment ..	8,495	6,789	15,284	..	..	..	15,284		
Tools and plant ..	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	45,809	38,176	83,985	..	..	..	83,985		
Less—Receipts on Capital account.	..	..	83,985	..	..	..	..		
Net Total ..	45,809	38,176	83,985	..	..	..	83,985		
Indirect Charges.									
Capitalized abatement of land revenue.	..	206	206	..	..	..	206		
Leave and pension allowances ..	1,232	950	2,182	..	..	..	2,182		
Total ..	1,232	1,156	2,388	..	..	..	2,388		
Grand Total ..	47,041	39,332	86,373	..	..	..	86,373		

MARKAPUR TANK PROJECT—*Tank Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges. Previous.	1918-1919.	Total	Cost of construction as now estimated. Construction estimate closed on 31st March 1911.	Expenditure against closed estimate.
	RS.		RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
B. Land	163	..	163	163	163
C. Works	41,177	..	41,177	41,177	41,177
K. Buildings	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
Total ..	41,340	..	41,340	41,340	41,340
(2) *Main Canals and Branches*—					
B. Land	2,499	..	2,499	2,499	2,499
C. Works	8,949	..	8,949	8,949	8,949
E. River and hill torrent works ..	..	..	..	..	..
F. (1) Other areas drainage works.	..	..	..	..	..
K. Buildings	887	..	887	887	887
L. Earthwork	41,540	..	41,540	41,540	41,540
O. Miscellaneous	277	..	277	277	277
Total ..	54,152	..	54,152	54,152	54,152
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	95,492	..	95,492	95,492	95,492
II. ESTABLISHMENT	21,165	..	21,165	21,165	21,165
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	1,16,657	..	1,16,657	1,16,657	1,16,657
V. Less—RECEIPTS ON CAPITAL ACCOUNT	..	..	..	..	..
Net Total * ..	1,16,657	..	1,16,657	1,16,657	1,16,657

* Chargeable to "43. Minor Works and Navigation—Provincial."

MARKAPUR TANK PROJECT—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations ..	..	..	..
6. Receipts from other canal produce	41	..	41
11. Miscellaneous ..	33	80	113
Total, Revenue realized in Public Works Department	74	80	154
Irrigation Revenue realised in Civil Department	34,458	6,057	40,515
Total, Direct Receipts ..	34,532	6,137	40,669
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department	6	1	7
Total, Public Works and Civil Departments, Revenue	34,538	6,138	40,676
Total, Receipts ..	34,538	6,138	40,676

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	609	..	609
(2) Main canals and branches ..	476	2,391	2,867
(3) Distributaries	..	4	4
(4) Drainage and protective works.	..	..	..
(5) Special tools and plant ..	..	..	..
Total ..	1,085	2,395	3,480
II. MAINTENANCE AND REPAIRS—			
(1) Head works	4,801	534	5,335
(2) Main canals and branches ..	6,366	382	6,748
(3) Distributaries	..	..	..
(4) Drainage and protective works.	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay	..	..	..
Total ..	11,167	916	12,083
Total, Extensions and Improvements and Maintenance and Repairs ..	12,252	3,311	15,563
IV. ESTABLISHMENT	2,675	2,125	4,800
V. TOOLS AND PLANT	..	34	34
VI. REFUNDS OF REVENUE	..	..	..
Total, Direct Charges ..	14,927	5,470	20,397
Share of collection charges in the Civil Department	1,721	303	2,024
Indirect Charges	374	297	671
Total, Direct and Indirect Charges ..	17,022	6,070	23,092
Deduct—Old maintenance charges saved to Government*	610	422	1,032
Net Total ..	16,412	5,648	22,060
Balance, net revenue	18,126	490	18,616
Grand Total ..	34,538	6,138	40,676

	RS.
* Direct—	
Extensions and improvements	29
Maintenance and repairs	213
Establishment	155
Tools and plant	3
Total ..	400
Indirect	22
Total ..	422

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	1,038	..	1,038
Leave and pension allowances	2,963	..	2,963
Total ..	4,001	..	4,001
REVENUE—			
Leave and pension allowances	374	297	671
Total ..	374	297	671
Grand Total ..	4,375	297	4,672

MARKAPUR TANK PROJECT—*Tank Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and Date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.				RS.		
Works	94,107	1,385	95,492	..	..	..	95,492		
Establishment	20,846	319	21,165	..	..	..	21,165		
Tools and plant.. ..	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	1,14,953	1,704	1,16,657	..	..	..	1,16,657		
Less—Receipts on Capital account ..	..	..	..	..	..	..	..		
Net Total ..	1,14,953	1,704	1,16,657	..	..	..	1,16,657		
Indirect Charges.									
Capitalized abatement of land revenue ..	..	1,038	1,038	..	..	..	1,038		
Leave and pension allowances	2,918	45	2,963	..	..	..	2,963		
Total ..	2,918	1,083	4,001	..	..	..	4,001		
Grand Total ..	1,17,871	2,787	1,20,658	..	..	..	1,20,658		

YELLANUR TANK PROJECT—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated.	Expenditure against closed estimate.
	RS.	RS.	RS.	RS.	
I. Works—					
(1) *Head Works*—					
B. Land	13,756	..	13,756	13,755	..
C. Works	16,249	2,183	18,432	18,778	..
L. Earthwork	1,36,183	2,088	1,38,271	1,40,145	..
O. Miscellaneous	12,219	61	12,280	12,710	..
Total ..	1,78,407	4,332	1,82,739	1,85,388	..
(3) *Distributaries*—					
B. Land	..	..	..	695	..
C. Works	3,757	3,048	6,805	2,601	..
L. Earthwork	..	316	316	2,014	..
O. Miscellaneous	..	..	..	..	..
Total ..	3,757	3,364	7,121	5,310	..
(5) *Special tools and plant.*	..	..	..	..	..
Provision for unforeseen works	..	..	..	..	..
Total Works ..	1,82,164	7,696	1,89,860	1,90,698	..
II. ESTABLISHMENT	35,211	4,939	40,150	37,893	..
III. TOOLS AND PLANT	6,994	79	7,073	7,120	..
Grand Total ..	2,24,369	12,714	2,37,083	2,35,711	..
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	..	..	..	..	..
Net Total* ..	2,24,369	12,714	2,37,083	2,35,711	..

* Chargeable to "43. Minor Works and Navigation—Provincial."

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

YELLANUR TANK PROJECT—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	24,753	..	24,753
Leave and pension allowances	4,930	691	5,621
Total ..	29,683	691	30,374
Grand total ..	29,683	691	30,374

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.				RS.	RS.	RS.	RS.	*Direct.*	RS.
Works	..	..	..	1,89,860	1,90,698	838	1,89,860	25 I., 16th Jan. 1918.	1,90,698
Establishment	..	..	..	40,150	37,893	— 2,257	40,150		
Tools and plant	..	..	..	7,073	7,120	47	7,073		
Suspense account	..	..	..	..	..	..	..		
Total ..	..	..	..	2,37,083	2,35,711	— 1,372	2,37,083		
Less—Receipts on Capital account	..	..	..	..	..	..	..		
Net Total ..	..	..	..	2,37,083	2,35,711	— 1,372	2,37,083		
Indirect Charges.								*Indirect.*	
Capitalized abatement of land revenue	..	..	..	24,753	24,784	31	24,753	25 I., 16th Jan. 1918.	30,089
Leave and pension allowances	..	..	..	5,621	5,305	— 316	5,621		
Total ..	..	..	.	30,374	30,089	— 285	30,374		
Grand Total ..	..	..	..	2,67,457	2,65,800	— 1,657	2,67,457		

KOCHERUVU TANK PROJECT—*Tank Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	
(1) *Head Works*—					
B. Land	9,714	..	9,714	9,714	..
C. Works	39,286	45	39,331	39,580	..
K. Buildings	1,239	..	1,239	..	..
L. Earthwork	42,147	..	42,147	43,400	..
O. Miscellaneous	16	..	16	1,326	..
P. Maintenance	2,181	..	2,181	..	..
Total ..	94,583	45	94,628	94,020	..
(2) *Main Canals and Branches*—					
B. Land	..	..	..	350	..
C. Works	..	..	..	..	..
D. Regulators	1,831	509	2,340	2,695	..
L. Earthwork	1,346	1,202	2,548	3,700	..
O. Miscellaneous	15	1,260	1,275	30	..
Total ..	3,192	2,971	6,163	6,775	..
(5) *Special tools and plant.*					
Provision for unforeseen works	..	..	..	..	..
Total, Works ..	97,775	3,016	1,00,791	1,00,895	..
II. ESTABLISHMENT	19,751	1,916	21,687	20,891	..
III. TOOLS AND PLANT	1,008	31	1,039	1,014	..
Grand Total ..	1,18,534	4,983	1,23,517	1,22,800	..
V. *Less*—Receipts on Capital account	4	6	10	..	..
Net Total* ..	1,18,530	4,977	1,23,507	1,22,800	..

* Chargeable to "43. Minor Works and Navigation—Provincial."

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

KOCHERUVU TANK PROJECT—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	Rs.	Rs.	Rs.
Capitalization of abatement of land revenue ...	7,850		7,850
Leave and pension allowances	2,765	271	3,036
Total ..	10,615	271	10,886

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.				Rs.	Rs.	Rs.	Rs.	*Direct Charges.*	Rs.
Works	...	...	...	1,00,791	1,00,895	104	1,00,791	183 I., 25th March 1913.	1,00,895
Establishment ...	...	...	...	21,687	20,891	— 796	21,687		
Tools and plant ...	...	...	...	1,039	1,014	— 25	1,039		
Suspense account ...	...	...	...	...	...	...			
Total ...	...	...	...	1,23,517	1,22,800	— 717	1,23,517		
Less—Receipts on Capital Account ...	...	...	...	10	...	— 10	10		
Net Total ...	...	...	...	1,23,507	1,22,800	— 707	1,23,507		
Indirect Charges.									
Capitalized abatement of land revenue ...	...	...	...	7,850	5,770	— 2,080	7,850	*Indirect Charges.* 183 I., 25th March 1913.	8,700
Leave and pension allowances ...	...	...	...	3,036	2,930	— 106	3,036		
Total ...	...	...	...	10,886	8,700	— 2,186	10,886		
Grand Total ...	...	...	...	1,34,393	1,31,500	— 2,893	1,34,393		

SIDDAPUR TANK PROJECT—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Head of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated.	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses (old outlay) *	5,000	1,463	6,463	5,000	...
C. Works	24,847		24,847	26,600	...
K. Buildings	7,117	— 3,027	4,090	3,070	...
L. Earthwork	5,07,048	16,051	5,23,099	5,24,400	...
O. Miscellaneous	...	33	33	...	...
P. Maintenance	...	2,775	2,775	3,000	...
Total ..	5,44,012	17,295	5,61,307	5,62,070	...
(2) *Main Canals and Branches*—					
B. Land	...		...	700	...
D. Regulators	...		...	2,380	..
E. Falls and Weirs ...	10,718	...	10,718	6,900	...
L. Earthwork	...	6,014	6,014	9,800	...
O. Miscellaneous	...	...	...	10,400	..
Total ..	10,718	6,014	16,732	30,180	...
(3) *Distributaries*—					
B. Land	...		...	500	...
O. Works	...		...	1,130	..
L. Earthwork	...	...	...	5,520	...
O. Miscellaneous	...	...	...	600	...
Total ...	...	...	...	7,750	...
(5) *Special tools and plant.*	...	— 33,573	— 33,573	...	...
Provision for unforeseen works ...	...		...	...	...
Total works ...	5,54,730	— 10,264	5,44,466	6,00,000	...
II. ESTABLISHMENT	1,18,880	— 6,587	1,12,293	1,36,574	...
III. TOOLS AND PLANT	1,72,810	— 105	1,72,705	1,85,406	...
Total ...	8,46,420	— 16,956	8,29,464	9,21,980	...
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	217	76	293	...	...
Net Total ...	8,46,203	— 17,032	8,29,171	9,21,980	...
Chargeable to 35. Protective Irrigation Works	5,000	...	5,000	...	...
Chargeable to 43. Minor Works and Navigation—Provincial ...	8,41,203	— 17,032	8,24,171	...	
	8,46,203	— 17,032	8,29,171	...	...

* Represents expenditure incurred on preliminary investigation, etc.

SIDDAPUR TANK PROJECT—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of land revenue	...	...	...
Leave and pension allowances	16,642	— 922	15,720
Total ...	16,642	— 922	15,720
REVENUE—			
Capitalization of abatement of land revenue	...	...	...
Leave and pension allowances	...	...	...
Total ...	...	...	...
Grand Total ...	16,642	— 922	15,720

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanction.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.				Rs.	Rs.	Rs.	Rs.		Rs.
Works	...	...	...	5,44,466	6,00,000	55,534	5,44,466	*Direct Charges.*	
Establishment ...	...	...	...	1,12,293	1,36,574	24,281	1,12,293		
Tools and plant.	...	...	...	1,72,705	1,85,406	12,701	1,72,705	435 I., 20th December 1918.	6,00,000
Suspense account.		...	...		...	...	...		
Total ...	...	...	...	8,29,464	9,21,980	92,516	8,29,464		
Less—Receipts on capital account.	...	...	...	293	...	— 293	293	*Indirect Charges* 435 I., 20th December 1918.	26,620
Net Total ...	...	...	...	8,29,171	9,21,980	92,809	8,29,171		
Indirect Charges.									
Capitalized abatement of land revenue ...	...	...	...	...	7,500	7,500	...		
Leave and pension allowances ...	...	...	...	15,720	19,120	3,400	15,720		
Total ...	...	...	...	15,720	26,620	10,900	15,720		
Grand Total ...	...	...	...	8,44,891	9,48,600	1,03,709	8,44,891		

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
I. WORKS—	Rs.	Rs.	Rs.	Rs.	
(1) *Head Works*—					
B. Land	...	...	...	...	...
C. Works	67,685	...	67,685	67,740	...
K. Buildings	...	...		...	...
L. Earthwork	...	...	...	...	...
O. Miscellaneous	...	...	...	...	...
P. Maintenance	...	...	...	...	...
Total ...	67,685	...	67,685	67,740	...
(2) *Main Canals and Branches*—					
A. Preliminary expenses ...	...	...	...	...	...
B. Land	445	...	445	400	...
E. Falls and weirs	83	...	33	...	...
F. (1) Other cross drainage works	13,183	...	13,183	8,130	...
G. Bridges	1,261	...	1,261	4,510	...
K. Buildings...	1,983	...	1,983	1,920	...
L. Earthwork	4,167	...	4,167	4,275	...
O. Miscellaneous	...	...	...	995	...
P. Maintenance	...	...	...	...	...
Total ...	21,072	...	21,072	20,260	...
(3) *Distributaries*—					
B. Land	...	...	...	...	...
C. Works	...	...	...	...	...
L. Earthwork	...	...	...	...	...
O. Miscellaneous	...	...	...	...	...
P. Maintenance		...	...	...	...
Total ...	...	...	...	...	...
Provision for unforeseen works ...	...	..	...	...	...
Total, Works ...	88,757	...	88,757	88,000	...
II. ESTABLISHMENT	18,538	...	18,538	15,610	...
III. TOOLS AND PLANT	...	...	...	...	...
* Grand Total ...	1,07,295	...	(a) 1,07,295	1,03,610	...

* Chargeable to "43. Minor Works and Navigation—Provincial."

(a) Excess over estimate is less than 5 per cent. Government sanction to the excess is awaited.

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	2,595	..	2,595
Total ..	2,595	..	2,595

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open capital sanction.	Total	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct charges.				RS.	RS.	RS.	RS.		RS.
Works	..	..	..	88,757	88,000	— 757	88,757	*Direct Charges.* 300 I., 12th June 1915.	88,000
Establishment ..	..	..	..	18,538	15,610	— 2,928	18,538		
Tools and plant ..	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	..	..	..	1,07,295	1,03,610	— 3,685	1,07,295		
Less—Receipts on Capital Account ..	..	..	..	..	..	..	..		
Net Total ..	..	..	..	1,07,295	1,03,610	— 3,685	1,07,295		
Indirect charges.									
Capitalised abatement of land revenue ..	..	..	..	..	..	..	..	*Indirect Charges.* 300 I., 12th June 1915.	2,185
Leave and pension allowances ..	..	..	..	2,595	2,185	— 410	2,595		
Total ..	..	..	..	2,595	2,185	— 410	2,595		
Grand Total ..	..	..	..	1,09,890	1,05,795	— 4,095	1,09,890		

ARKENKOTA CHANNEL—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1894).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) *Head Works*—					
C. Works	8,281	..	8,281	13,981	8,281
Total ..	8,281	..	8,281	13,981	8,281
(2) *Main Canals and Branches*—					
D. Regulators	14,621	..	14,621	14,621	14,621
F. (1) Other cross drainage works ..	75,732	..	75,732	75,732	75,732
L. Earthwork	15,871	..	15,871	15,871	15,871
Total ..	1,06,224	..	1,06,224	1,06,224	1,06,224
Total, Works ..	1,14,505	..	1,14,505	1,20,205	1,14,505
II. ESTABLISHMENT	26,264	..	26,264	26,801	26,264
III. TOOLS AND PLANT	..	..	..	..	..
* Grand Total ..	1,40,769	..	1,40,769	1,47,006	1,40,769

* Chargeable to '43. Minor Works and Navigation—Provincial.'

ARKENKOTA CHANNEL—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
Plantations	433	..	433
Receipts from other canal produce ..	693	..	693
Fines ..	1	..	1
Miscellaneous ..	1,881	154	2,035
Total, Revenue realized in Public Works Department ..	3,008	154	3,162
Irrigation Revenue realized in Civil Department ..	5,35,673	19,216	5,54,889
Total. Direct Receipts.	5,38,681	19,370	5,58,051
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department ..	18,177	410	18,587
Total, Public Works and Civil Departments, Revenue ..	5,56,858	19,780	5,76,638
Total, Receipts ..	5,56,858	19,780	5,76,638

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	164	..	164
(2) Main canals and branches ..	8,116	152	8,268
(3) Distributaries	882	..	882
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	11,475	..	11,475
Total ..	20,637	152	20,789
II. MAINTENANCE AND REPAIRS—			
(1) Head works	297	..	297
(2) Main canals and branches ..	84,952	2,596	88,548
(3) Distributaries	2,514	..	2,514
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	1,73,223	..	1,73,223
Total ..	2,60,986	3,596	2,64,582
Total, Extensions and Improvements and Maintenance and Repairs ..	2,81,623	3,748	2,85,371
IV. ESTABLISHMENT	64,272	1,201	65,473
V. TOOLS AND PLANT	1	28	29
VI. REFUNDS OF REVENUE	43	..	43
Total, Direct Charges ..	3,45,939	4,977	3,50,916
Share of collection charges in the Civil department	27,604	982	28,676
Indirect charges	8,992	168	9,160
Total, Direct and Indirect Charges ..	3,82,625	6,127	3,88,752
Deduct—Old maintenance charge saved to Government *	6,765	1,226	7,991
Net Total ..	3,75,860	4,901	3,80,761
Balance, net revenue	1,80,998	14,879	1,95,877
Grand Total ..	5,56,858	19,780	5,76,638

* Direct—

	RS.
Extensions and improvements	793
Maintenance and repairs	100
Establishment	286
Tools and plant	7
	1,186
Indirect	40
	1,226

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Leave and pension allowances	3,676	..	3,676
Total ..	3,676	..	3,676
REVENUE—			
Leave and pension allowances	8,992	168	9,160
Total ..	8,992	168	9,160
Grand Total ..	12,668	168	12,836

ARKENKOTA CHANNEL—*Canal Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
	RS.	RS.	RS.		RS.	RS.	RS.		RS.
Direct Charges.									
Works	81,578	32,927	1,14,505	..	5,700	5,700	1,14,505	166 I., 18th Apr. 1916.	5,700
Establishment	18,760	7,504	26,264	..	537	537	26,264		
Tools and plant ..	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	1,00,338	40,431	1,40,769	..	6,237	6,237	1,40,769		
Less—Receipts on capital account	..	..	..	..	..	..	..		
Net Total ..	1,00,338	40,431	1,40,769	..	6,237	6,237	1,40,769		
Indirect Charges.									
Capitalised abatement of land revenue ..	..	..	..	..	..	..	..		
Leave and pension allowances	2,626	1,050	3,676	..	..	..	3,676		
Total ..	2,626	1,050	3,676	..	..	..	3,676		
Grand Total ..	1,02,964	41,481	1,44,445	..	6,237	6,237	1,44,445		

THADAPALLE CHANNEL—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed in 1898).	Expenditure against closed estimate.
	RS.		RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
C. Works	73,406	..	73,406	78,506	73,406
Total ..	73,406	..	73,406	78,506	73,406
(2) *Main Canals and Branches*—					
B. Land	1,880	..	1,880	1,880	1,880
D. Regulators	36,546	..	36,546	36,546	36,546
F. (1) Other cross drainage works	1,096	..	1,096	1,096	1,096
K. Buildings	1,442	..	1,442	1,442	1,442
L. Earthwork	1,384	..	1,384	1,384	1,384
O. Miscellaneous	1,836	..	1,836	1,836	1,836
Total ..	44,184	..	44,184	44,184	44,184
(3) *Distributaries*—					
B. Land	..	..	..	..	..
C. Works	355	..	355	355	355
L. Earthwork	17,275	..	17,275	17,275	17,275
O. Miscellaneous	..	..	..	..	..
Total ..	17,630	..	17,630	17,630	17,630
Total, Works ..	1,35,220	..	1,35,220	1,40,320	1,35,220
II. ESTABLISHMENT	29,535	..	29,535	30,060	29,535
III. TOOLS AND PLANT	..	..	..	..	..
(a) Grand Total ..	1,64,755	..	1,64,755	1,70,380	1,64,755

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

THADAPALLE CHANNEL—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations ..	2,564	..	2,564
6. Receipt from other canal produce ..	4,826	..	4,826
9. Rents of buildings.	599	64	663
11. Miscellaneous ..	13,121	1,257	14,378
Total, Revenue realized in Public Works Department	21,110	1,321	22,431
Irrigation Revenue realized in Civil Department	15,95,317	62,382	16,58,699
Total, Direct Receipts ..	16,17,427	63,703	16,81,130
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department ..	1,44,482	2,900	1,47,382
Total, Public Works and Civil Departments, Revenue ..	17,61,909	66,603	18,28,512
Total, Receipts ..	17,61,909	66,603	18,28,512

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	4,527	79	4,606
(2) Main canals and branches ..	25,928	66	25,994
(3) Distributaries	8,199	..	8,199
(4) Drainage and protective works.	..	..	..
(5) Special tools and plant ..	..	74	74
Add—Unclassified outlay ..	7,726	..	7,726
Total ..	46,380	219	46,599
II. MAINTENANCE AND REPAIRS—			
(1) Head works	15,841	1,836	17,677
(2) Main canals and branches ..	1,71,002	8,728	1,79,730
(3) Distributaries	8,627	..	8,627
(4) Drainage and protective works.	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	1,99,673	..	1,99,673
Total ..	3,95,143	10,564	4,05,707
Total, Extensions and Improvements and Maintenance and Repairs ..	4,41,523	10,783	4,52,306
IV. ESTABLISHMENT	1,00,338	3,455	1,03,793
V. TOOLS AND PLANT	620	81	701
VI. REFUNDS OF REVENUE	21	..	21
Total, Direct Charges ..	5,42,502	14,319	5,56,821
Share of collection charges in the Civil department	87,089	3,264	90,353
Indirect charges	14,002	484	14,486
Total, Direct and Indirect Charges ..	6,43,513	18,067	6,61,610
Deduct—Old maintenance charges saved to Government *	27,045	4,900	31,945
Net Total ..	6,16,468	13,167	6,29,635
Balance, net revenue	11,45,411	53,436	11,98,847
Grand Total ..	17,61,909	66,603	18,28,512

* Direct—

	RS.
Extensions and improvements	3,569
Maintenance and charges	1,144
Establishment	27
Tools and plant	4,740
Indirect	160
	4,900

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of Land Revenue	6,915	..	6,915
Leave and pension allowances	4,135	..	4,135
Total ..	11,050	..	11,050
REVENUE—			
Leave and pension allowances	14,002	484	14,486
Total ..	14,002	484	14,486
Grand Total ..	25,052	484	25,536

THADAPALLE CHANNEL—*Canal Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Direct Charges.									
Works	70,897	64,323	1,35,220	..	5,100	5,100	1,35,220	72 I., 18th Feb. 1916.	5,100
Establishment ..	16,306	13,229	29,535	..	525	525	29,535		
Tools and plant ..	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	87,203	77,552	1,64,755	..	5,625	5,625	1,64,755		
Less—Receipts on capital account	..	..	..	..	..	..	..		
Net Total ..	87,203	77,552	1,64,755	..	5,625	5,625	1,64,755		
Indirect Charges.									
Capitalized abatement of Land Revenue ..	..	6,915	6,915	..	..	..	6,915		
Leave and pension allowances ..	2,283	1,852	4,135	..	..	..	4,135		
Total ..	2,283	8,767	11,050	..	..	..	11,050		
Grand Total ..	89,486	86,319	1,75,805	..	5,625	5,625	1,75,805		

KALINGAROYEN CHANNEL—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed in 1893).	Expenditure against closed estimate.
	RS.		RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
B. Land..	..	..	..	..	..
C. Works	46,690	..	46,690	46,690	46,690
K. Building	1,162	..	1,162	1,162	1,162
Total ..	47,852	..	47,852	47,852	47,852
(2) *Main Canals and Branches*—					
D. Regulators	67,543	..	67,543	67,543	67,543
F. River and hill torrent works ..	8,557	..	8,557	8,557	8,557
G. Bridges	897	..	897	2,297	897
L. Earthwork	3,981	..	3,981	3,981	3,981
O. Miscellaneous	14,959	..	14,959	14,959	14,959
Total ..	95,937	..	95,937	97,337	95,937
Total, Works ..	1,43,789	..	1,43,789	1,45,189	1,43,789
II. ESTABLISHMENT	32,191	..	32,191	32,191	32,191
III. TOOLS AND PLANT	..	..	..	..	..
* Grand Total ..	1,75,980	..	1,75,980	1,77,380	1,75,980

* Chargeable to "43. Minor Works and Navigation—Provincial."

KALINGAROYEN CHANNEL—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918-1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations	3,290	..	3,290
6. Receipts from other canal produce ..	10,737	..	10,737
9. Rents of buildings.	464	14	478
11. Miscellaneous ..	17,327	2,208	19,535
Total, Revenue realized in Public Works Department	31,818	2,222	34,040
Irrigation revenue realized in Civil Department	10,72,554	36,914	11,09,468
Total, Direct Receipts ..	11,04,372	39,136	11,43,508
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	19,858	483	20,341
Total, Public Works and Civil Departments, Revenue	11,24,230	39,619	11,63,849
Total, Receipts ..	11,24,230	39,619	11,63,849

Charges.	Total. Previous.	1918-1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	1,145	689	1,834
(2) Main canals and branches ..	16,677	332	17,009
(3) Distributaries	280	..	280
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant	..	..	..
Add—Unclassifiable outlay ..	11,569	..	11,569
Total ..	29,671	1,021	30,692
II. MAINTENANCE AND REPAIRS—			
(1) Head works	59,815	807	60,622
(2) Main canals and branches ..	1,59,547	14,750	1,74,297
(3) Distributaries	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant	..	..	..
Add—Unclassifiable outlay ..	3,53,846	..	3,53,846
Total ..	5,73,208	15,557	5,88,765
Total, Extensions and Improvements and Maintenance and Repairs ..	6,02,879	16,578	6,19,457
IV. ESTABLISHMENT	1,39,290	5,311	1,44,601
V. TOOLS AND PLANT	689	125	814
VI. REFUNDS OF REVENUE	237	6	243
Total, Direct Charges ..	7,43,095	22,020	7,65,115
Share of collection charges in the Civil Department	54,621	1,870	56,491
Indirect charges	19,468	743	20,211
Total, Direct and Indirect Charges ..	8,17,184	24,633	8,41,817
Deduct—Old maintenance charges saved to Government (*a*)	30,250	5,480	35,730
Net Total ..	7,86,934	19,153	8,06,087
Balance, net revenue	3,37,296	20,466	3,57,762
Grand Total ..	11,24,230	39,619	11,63,849

(*a*) Direct—

	RS.
Extensions and improvements	3,992
Maintenance and repairs	..
Establishment	1,279
Tools and plant	30
	5,301
Indirect	179
	5,480

KALINGAROYEN CHANNEL—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Leave and pension allowances	4,506	...	4,506
Total ...	4,506	...	4,506
REVENUE—			
Leave and pension allowances	19,468	743	20,211
Total ...	19,468	743	20,211
Grand Total ...	23,974	743	24,717

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.		Rs.
Direct Charges.								*Direct Charges.*	
Works	43,775	1,00,014	1,43,789	...	1,400	1,400	1,43,789		
Establishment ...	10,068	22,123	32,191	...	...	...	32,191		
Tools and plant...	...	...	...	...	..	...	...		
Suspense account.	...	...	...	...	...	...	...		
Total ...	53,843	1,22,137	1,75,980	...	1,400	1,400	1,75,980		
Less—Receipts on Capital account.	...	...	...	...	...	...	...		
Net Total ...	53,843	1,22,137	1,75,980	...	1,400	1,400	1,75,980	80 I., 23rd Feb. 1917.	1,400
Indirect Charges.									
Capitalized abatement of land revenue ...	...	...	...	...	...	...	...		
Leave and pension allowances ...	1,410	3,096	4,506	...	...	..	4,506		
Total ...	1,410	3,096	4,506	...	...	...	4,506		
Grand Total ...	55,253	1,25,233	1,80,486	...	1,400	1,400	1,80,486		

KANNIAMPALIAM ANICUT—*Tank Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges. Previous.	1918-1919.	Total.	Cost of construction as now estimated.	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	
I. WORKS—					
(1) *Head Works*—					
A. Preliminary expenses ...	1,627	135	1,762	1,700	...
B. Land	...	...	...	...	...
C. Works	29,590	12,428	42,018	51,000	...
K. Buildings	1,500	— 500	1,000	1,000	...
L. Earthwork	...	...	...	...	...
O. Miscellaneous	...	...	..	...	..
Total ...	32,717	12,063	44,780	53,700	...
(2) *Main Canals and Branches*—					
A. Preliminary expenses ...	...	...	...	...	...
B. Land	...	...	...	...	...
C. Works	...	...	...	500	...
D. Regulators	...	...	...	...	...
F. Rivers and Hill Torrents.	...	...	...	...	...
F. (1) Other cross drainage works	3,781	4,304	8,085	15,800	...
G. Bridges	...	...	..	...	...
K. Buildings	.		...	...	...
L. Earthwork	3,171	6,753	9,924	7,700	...
O. Miscellaneous	...	...	...	...	...
P. Maintenance	...	...	...	...	...
Total ...	6,952	11,057	18,009	24,000	..
(3) *Distributaries*—					
B. Land	...	...	...	...	...
C. Works	...	...	...	...	...
L. Earthwork	...	.	...	...	...
O. Miscellaneous	...	...	...	...	...
P. Maintenance	...	...	...	...	...
Total ...	...	...	...	...	...
(5) Special tools and plant ...		...	..	...	...
Provision for unforeseen works ...	...	...	...	...	...
Total Works ...	39,669	23,120	62,789	77,700	...
II. ESTABLISHMENT	8,404	7,407	15,811	16,705	...
III. TOOLS AND PLANT	...	173	173	...	...
Grand Total ...	48,073	30,700	78,773	94,405	...
V. Less receipts on capital account ...		...	...	...	...
(*a*) Net Total ...	48,073	30,700	78,773	94,405	...

(*a*) Chargeable to "43. Minor Works and Navigation—Provincial."

KANNIAMPALIAM ANICUT—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of Land Revenue	...	...	...
Leave and pension allowances ...	1,177	1,037	2,214
Total ...	1,177	1,037	2,214
REVENUE—			
Capitalization of abatement of Land Revenue	...	...	...
Leave and pension allowances	...	..	...
Total ...	...	...	...
Grand Total ...	1,177	1,037	2,214

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.				Rs.	Rs.	Rs.	Rs.	*Direct Charges.* 128 I., 17th March 1916.	Rs. 77,700
Works	...	...	...	62,789	77,700	14,911	62,789		
Establishment ...	...	...	...	15,811	16,705	894	15,811		
Tools and plant ...	...	...	...	173	...	—173	173		
Suspense account.	...	...	...	...	...	...	...		
Total ...	...	...	...	78,773	94,405	15,632	78,773		
Less—Receipts on capital account.	...	...	...	..	...	...	...		
Net Total ...	...	...	...	78,773	94,405	15,632	78,773		
Indirect Charges.								*Indirect Charges.* 128 I., 17th March 1916.	2,339
Capitalized abatement of Land Revenue.	...	...	...	...	...	..	...		
Leave and pension allowances.	...	...	...	2,214	2,339	125	2,214		
Total ...	...	...	..	2,214	2,339	125	2,214		
Grand Total ...	...	...	...	80,987	96,744	15,757	80,987		

PALAR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total	Cost of construction as now estimated (construction estimate closed on 31st March 1896).	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
WORKS—					
(1) *Head Works*—					
C. Works	2,08,736	...	2,08,736	2,08,736	2,08,736
K. Buildings	1,847	...	1,847	1,847	1,847
Total ...	2,10,583	...	2,10,583	2,10,583	2,10,583
(2) *Main Canals and Branches*—					
B. Land	7,263	...	7,263	7,263	7,263
D. Regulators	27,509	...	27,509	27,509	27,509
E. Falls and weirs	1,04,085	852	1,04,937	1,05,409	1,04,279
F. River and Hill Torrent Works ...	547	...	547	547	547
F. (1) Other cross drainage works ...	2,366	...	2,366	2,697	2,697
G. Bridges	11,552	...	11,552	13,352	11,552
H. Escapes	8,277	...	8,277	8,277	8,277
K. Buildings	5,231	...	5,231	5,231	5,231
L. Earthwork	1,90,142	...	1,90,142	1,90,142	1,90,142
N. Tanks and reservoirs	32,335	...	32,335	35,885	32,335
O. Miscellaneous	40,752	...	40,752	40,752	40,752
Total ...	4,30,059	852	4,30,911	4,37,064	4,30,584
(3) *Distributaries*—					
B. Land	7,776	...	7,776	7,776	7,776
C. Works	79,389	...	79,389	80,296	78,006
D. Regulators	724	...	724	1,914	1,914
E. Falls and weirs	3,257		3,257	3,257	3,257
F. (1) Other cross drainage works ...	2,506	...	2,506	2,174	2,174
L. Earthwork	56,867	...	56,867	56,867	56,867
N. Tanks and reservoirs	8,369	...	8,369	8,369	8,369
O. Miscellaneous	4,680	...	4,680	4,680	4,680
Total ...	1,63,568	...	1,63,568	1,65,333	1,63,048
(5) Special tools and plant	...	...	...	...	...
Provision for unforeseen works	...	...	...	...	...
Total outlay on current sanctions	8,04,210	852	8,05,062	8,12,980	8,04,210
Old outlay	10,26,978	...	10,26,978	10,26,978	10,26,978
Total Works ...	18,31,188	852	18,32,040	18,39,958	18,31,187
II. ESTABLISHMENT	4,65,097	160	4,65,257	4,66,982	4,65,098
III. TOOLS AND PLANT	29,875	4	29,879	29,980	29,875
Grand Total ...	23,26,160	1,016	23,27,176	23,36,920	23,26,160
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ...	...	...	..	..	...
* Net Total ...	23,26,160	1,016	23,27,176	23,36,920	23,26,160

* Chargeable to "43. Minor Works and Navigation—Provincial."

PALAR ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations ..	6,834	1,819	8,653
6. Receipts from other canal produce	42,723	28	42,751
9. Rents of buildings.	1,808	71	1,879
10. Fines	64	..	64
11. Miscellaneous ..	28,199	107	28,306
Total, Revenue realized in Public Works Department	79,628	2,025	81,653
Irrigation Revenue realized in Civil Department	56,65,343	58,922	57,24,265
Total, Direct Receipts ..	57,44,971	60,947	58,05,918
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	8,79,846	16,733	8,96,579
Total, Public Works and Civil Departments, Revenue	66,24,817	77,680	67,02,497
Total, Receipts ..	66,24,817	77,680	67,02,497

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	2,10,868	..	2,10,868
(2) Main canals and branches ..	1,63,607	3,262	1,66,869
(3) Distributaries	1,96,445	2,218	1,98,663
(4) Drainage and protective works ..	340	..	340
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay	32,342	..	32,342
Total ..	6,03,602	5,480	6,09,082
II. MAINTENANCE AND REPAIRS—			
(1) Head works	1,25,515	4,815	1,30,330
(2) Main canals and branches ..	9,67,259	5,951	9,73,210
(3) Distributaries	7,21,032	40,128	7,61,160
(4) Drainage and protective works ..	5,742	..	5,742
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	99,655	..	99,655
Total ..	19,19,203	50,894	19,70,097
Total, Extensions and Improvements and Maintenance and Repairs ..	25,22,805	56,374	25,79,179
IV. ESTABLISHMENT	6,38,555	16,720	6,55,275
V. TOOLS AND PLANT	14,777	594	15,371
VI. REFUNDS OF REVENUE	10,346	..	10,346
Total, Direct Charges ..	31,86,483	73,688	32,60,171
Share of collection charges in the Civil Department	3,60,711	3,736	3,64,447
Indirect charges	1,06,026	2,341	1,08,367
Total, Direct and Indirect Charges ..	36,53,220	79,765	37,32,985
Deduct—Old maintenance charges saved to Government *	2,59,810	3,763	2,63,573
Net Total ..	33,93,410	76,002	34,69,412
Balance, net revenue	32,31,407	1,678	32,33,085
Grand Total ..	66,24,817	77,680	67,02,497

	RS.
* Extensions and Improvements	178
Maintenance and Repairs	2,909
Establishment	679
Tools and Plant	16
Total, Direct Charges ..	3,682
Indirect Charges	81
Grand Total ..	3,763

PALAR ANICUT SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of land revenue	25,558	...	25,558
Leave and pension allowances	91,222	22	91,244
Total ...	1,16,780	22	1,16,802
REVENUE—			
Capitalization of abatement of land revenue	2,554	..	2,554
Leave and pension allowances	1,03,472	2,341	1,05,813
Total ...	1,06,026	2,341	1,08,367
Grand Total ...	2,22,806	2,363	2,25,169

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate
Direct Charges.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.
Works	15,22,878	3,08,310	18,31,188	852	8,770	7,918	18,32,040		
Establishment ...	3,99,070	66,027	4,65,097	160	1,885	1,725	4,65,257		
Tools and plant ...	29,875	...	29,875	4	105	101	29,879		
Suspense account ...	...	...	...	...	...	..	...		
Total ...	19,51,823	3,74,337	23,26,160	1,016	10,760	9,744	23,27,176	Mis. 45 I., 28th January 1918.	1,[illegible]
Less—Receipts on Capital Account...	...	...	...	...	...	...	...	397 I., 8th Oct. 1918.	1,1[illegible]
Net Total ...	19,51,823	3,74,337	23,26,160	1,016	10,760	9,744	23,27,176	355 I., 5th Nov. 1918.	2,29[illegible]
Indirect Charges.									
Capitalized abatement of land revenue	23,054	2,504	25,558	...	...	...	25,558		
Leave and pension allowances ...	81,976	9,246	91,222	22	...	— 22	91,244	Mis. 52 I., 19th Feb. 1919.	3,550
Total ...	1,05,030	11,750	1,16,780	22	...	— 22	1,16,802		
Grand Total ...	20,56,853	3,86,087	24,42,940	1,038	10,760	9,722	24,43,978	Total ..	8,779

VALLURU ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed on 31st March 1893).	Expenditure against closed estimate.
	Previous.	1918–1919.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
C. Works	54,874	4,757	59,631	59,914	50,550
Total ..	54,874	4,757	59,631	59,914	50,550
(3) *Distributaries*—					
C. Works	1,147	..	1,147	1,147	1,147
Total ..	1,147	..	1,147	1,147	1,147
Total, Works ..	56,021	4,757	60,778	61,061	51,697
II. ESTABLISHMENT	12,802	893	13,695	13,474	11,891
III. TOOLS AND PLANT	..	25	25	..	..
Grand Total ..	68,823	5,675	74,498	74,535	63,588
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	..	..	..	..	..
(a) Net Total ..	68,823	5,675	74,498	74,535	63,588

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations ..	723	54	777	(1) Head works	3,602	..	3,602
6. Receipts from other canal produce	568	353	921	(2) Main canals and branches ..	5	122	127
9. Rents of buildings..	94	16	110	(3) Distributaries	..	..	..
11. Miscellaneous ..	146	132	278	(4) Drainage and protective works ..	4,817	..	4,817
				(5) Special tools and plant ..	..	..	..
				Total ..	8,424	122	8,546
Total, Revenue realized in Public Works Department	1,531	555	2,086	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	20,278	1,221	21,499
Irrigation Revenue realized in Civil Department	1,15,928	2,247	1,18,175	(2) Main canals and branches ..	1,394	..	1,394
				(3) Distributaries	..	..	..
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay	17,582	..	17,582
				Total ..	39,254	1,221	40,475
Total, Direct Receipts ..	1,17,459	2,802	1,20,261	Total, Extensions and Improvements and Maintenance and Repairs ..	47,678	1,343	49,021
II. INDIRECT RECEIPTS—				IV. ESTABLISHMENT..	10,814	252	11,066
Share of land revenue collected in the Civil Department ..	42,117	1,074	43,191	V. TOOLS AND PLANT	205	7	212
				VI. REFUNDS OF REVENUE	..	..	...
				Total, Direct Charges ..	58,697	1,602	60,299
				Share of collection charges in the Civil Department	7,904	166	8,070
Total, Public Works and Civil Departments, Revenue	1,59,576	3,876	1,63,452	Indirect charges	1,511	35	1,546
				Total, Direct and Indirect Charges ..	68,112	1,803	69,915
				Deduct—Old maintenance charges saved to Government (a)	29,824	1,589	31,413
				Net Total ..	38,288	214	38,502
				Balance, net revenue	1,21,288	3,662	1,24,950
Total, Receipts ..	1,59,576	3,876	1,63,452	Grand Total ..	1,59,576	3,876	1,63,452

	RS.
(a) Extensions and Improvements	226
Maintenance and repairs	1,077
Establishment	245
Tools and plant	7
Total, Direct Charges ..	1,555
Indirect charges	34
Grand Total ..	1,589

VALLURU ANICUT SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918-1919.	Total.
CAPITAL—	Rs.	Rs.	Rs.
Leave and pension allowances	1,793	125	1,918
Total ...	1,793	125	1,918
REVENUE—			
Leave and pension allowances	1,511	35	1,546
Total ...	1,511	35	1,546
Grand Total ...	3,304	160	3,464

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
1	2	3	4	5	6	7	8	9	10
Direct Charges.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.
Works	50,550	1,147	51,697	9,081	9,364	283	60,778		
Establishment ...	11,627	264	11,891	1,804	1,583	— 221	13,695		
Tools and plant ...	...	..	..	25	...	— 25	25		
Suspense account.	...	...	...	...	...	...	...		
Total ...	62,177	1,411	63,588	10,910	10,947	37	74,498	68 I., 14th Feb. 1917.	9,364
Less—Receipts on capital account.	...	...	..	...	...	...	...		
Net Total ...	62,177	1,411	63,588	10,910	10,947	37	74,498		
Indirect Charges.									
Capitalized abatement of land revenue ...	...	...	...	...	...	...	...		
Leave and pension allowances ...	1,628	38	1,666	252	...	— 252	1,918		
Total ...	1,628	38	1,666	252	...	— 252	1,918		
Grand Total ...	63,805	1,449	65,254	11,162	10,947	— 215	76,416		

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (closed in 1893).	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
I. WORKS—	Rs.	Rs.	Rs.	Rs.	Rs.
(1) *Head Works*—					
C. Works	88,195	...	88,195	97,995	88,195
K. Buildings	6,615	...	6,615	8,855	6,615
O. Miscellaneous	1,029	...	1,029	1,029	1,029
Total ...	95,839	...	95,839	1,07,879	95,839
(2) *Main Canals and Branches*—					
B. Land	65,979	...	65,979	65,979	65,979
D. Regulators	48,818	...	48,818	48,818	48,818
F. (1) Other cross drainage works	59,847	...	59,847	59,847	59,847
G. Bridges	53,739	...	53,739	53,739	53,739
K. Buildings	6,045	...	6,045	6,045	6,045
L. Earthwork	1,04,628	...	1,04,628	1,04,628	1,04,628
Total ...	3,39,056	...	3,39,056	3,39,056	3,39,056
Reservoirs—					
B. Land	1,35,313	...	1,35,313	1,35,313	1,35,313
C. Works	1,67,908	...	1,67,908	1,67,908	1,67,908
L. Earthwork	5,33,148	...	5,33,148	5,33,148	5,33,148
O. Miscellaneous	45,753	...	45,753	45,753	45,753
Total ...	8,82,122	...	8,82,122	8,82,122	8,82,122
(3) *Distributaries*—					
C. Works	2,073	...	2,073	2,073	2,073
L. Earthwork	2,275	...	2,275	2,275	2,275
Total ...	4,348	...	4,348	4,348	4,348
(4) *Drainage and Protective works*—					
C. Works	2,672	...	2,672	2,672	2,672
(5) Special tools and plant ...	...	...	...	...	...
Provision for unforeseen works ...	...	...	...	...	...
Total, Works ...	13,24,037	...	13,24,037	13,36,077	13,24,037
II. ESTABLISHMENT	2,17,740	...	2,17,740	2,20,329	2,17,740
III. TOOLS AND PLANT	6,648	...	6,648	6,829	6,648
Grand Total ...	15,48,425	...	15,48,425	15,63,235	15,48,425
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	1,302	...	1,302	1,302	1,302
(*a*) Net Total ...	15,47,123	...	15,47,123	15,61,933	15,47,123

(*a*) Chargeable to "43. Minor Works and Navigation—Provincial."

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
3. Sales of water ..	6,98,840	31,459	7,30,299
5. Receipts from plantations ..	873	400	1,273
6. Receipts from other canal produce ..	4,685	86	4,771
9. Rents of buildings.	886	58	944
10. Fines	39	..	39
11. Miscellaneous ..	2,520	1,268	3,788
Total, revenue realised in Public Works Department	7,07,843	33,271	7,41,114
Irrigation revenue realised in Civil Department	4,70,484	17,058	4,87,542
Total, Direct Revenue ..	11,78,327	50,329	12,28,656
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	20,257	462	20,719
Total, Public Works and Civil Departments, Revenue	11,98,584	50,791	12,49,375
Total, Receipts ..	11,98,584	50,791	12,49,375

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	6,704	..	6,704
(2) Main canals and branches ..	32,479	1,432	33,911
(3) Distributaries	2,954	..	2,954
(4) Drainage and protective works ..	613	..	613
(5) Special tools and plant—			
Total ..	42,750	1,432	44,182
II. MAINTENANCE AND REPAIRS—			
(1) Head works	61,876	..	61,876
(2) Main canals and branches ..	5,19,899	12,564	5,32,463
(3) Distributaries	3,953	..	3,953
(4) Drainage and protective works ..	2,008	..	2,008
(5) Special tools and plant—			
Add—Unclassifiable outlay ..	..	..	..
Total ..	5,87,736	12,564	6,00,300
Total, Extensions and Improvements and Maintenance and Repairs ..	6,30,486	13,996	6,44,482
IV. ESTABLISHMENT	2,21,761	2,626	2,24,387
V. TOOLS AND PLANT	7,855	73	7,928
VI. REFUNDS OF REVENUE	88	..	88
Total, Direct Charges ..	8,60,190	16,695	8,76,885
Share of collection charges in the Civil Department	26,725	876	27,601
Indirect charges	31,987	368	32,355
Total, Direct and Indirect Charges ..	9,18,902	17,939	9,36,841
Deduct—Old maintenance charges saved to Government (a) ..	2,34,231	4,633	2,38,864
Net Total ..	6,84,671	13,306	6,97,977
Balance, net revenue ..	5,13,913	37,485	5,51,398
Grand Total .	11,98,584	50,791	12,49,375

(a) Extensions and improvements .. .. RS. 3,600
Maintenance and repairs 200
Establishment 713
Tools and plant 20
Total, Direct charges .. 4,533
Indirect charges 100
Grand Total .. 4,633

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of land revenue	2,08,120	...	2,08,120
Leave and pension allowances	30,825	...	30,825
Total ...	2,38,945	...	2,38,945
REVENUE—			
Capitalization of abatement of land revenue	1,095	...	1,095
Leave and pension allowances	30,892	368	31,260
Total ...	31,987	368	32,355
Grand Total ...	2,70,932	368	2,71,300

No. 6.—Statement comparing Charges to date with Sanctioned Estimate.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.
Works	12,97,799	26,238	13,24,037	...	12,040	12,040	13,24,037	Mis. 161 I., 11th May 1918.	9,800
Establishment	2,12,547	5,193	2,17,740	...	2,589	2,589	2,17,740		
Tools and plant ...	6,648	...	6,648	...	181	181	6,648		
Suspense account.		...	...	...	...	...	...		
Total ...	15,16,994	31,431	15,48,425	...	14,810	14,810	15,48,425	Mis. 239 I., 12th July 1918.	
Less—Receipts on Capital Account.	1,167	135	1,302	...	...	...	1,302		2,240
Net Total ...	15,15,827	31,296	15,47,123	...	14,810	14,810	15,47,123	Total.	12,040
Indirect Charges.									
Capitalized abatement of land revenue ...	2,08,120	...	2,08,120	...	...	...	2,08,120		
Leave and pension allowances	30,098	727	30,825	..	..	...	30,825		
Total ...	2,38,218	727	2,38,945	..	...	...	2,38,945		
Grand Total ...	17,54,045	32,023	17,86,068	...	14,810	14,810	17,86,068		

CHEMBRAMBAUKAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges. Previous.	1918-1919.	Total.	Cost of construction as now estimated (construction estimate closed on 31st March 1893).	Expenditure against closed estimate.
I. WORKS—	Rs.		Rs.	Rs.	Rs.
(1) *Head Works*—					
K. Buildings	1,608	...	1,608	1,608	1,608
(2) *Main Canals and Branches*—					
B. Land	1,11,062	...	1,11,062	1,11,062	1,11,062
C. Works	99,557	2,046	1,01,603	1,02,257	99,557
K. Buildings	920	...	920	4,620	920
L. Earthwork	2,20,643	...	2,20,643	2,20,643	2,20,643
O. Miscellaneous	61,729	...	61,729	61,729	61,729
Total ...	4,93,911	2,046	4,95,957	5,00,311	4,93,911
(3) *Distributaries*—					
B. Land	...	...	...	...	...
C. Works	5,902	...	5,902	7,502	5,902
L. Earthwork	2,469	...	2,469	2,469	2,469
Total ...	8,371	...	8,371	9,971	8,371
(5) Special tools and plant ...	...	...	...	...	...
Provision for unforeseen works ...	...	...	...	...	...
Total, Works ...	5,03,890	2,046	5,05,936	5,11,890	5,03,890
II. ESTABLISHMENT	1,27,271	384	1,27,655	1,28,990	1,27,271
III. TOOLS AND PLANT	8,204	11	8,215	8,204	8,204
Grand Total ...	6,39,365	2,441	6,41,806	6,49,084	6,39,365
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	114	...	114	114	114
* Net Total ...	6,39,251	2,441	6,41,692	6,48,970	6,39,251

* Chargeable to "48. Minor Works and Navigation—Provincial."

CHEMBRAMBAUKAM TANK—*Tank Project.*

No. 3.—Revenue Account for and to end of 1918-1919.

Receipts.	Total. Previous.	1918-1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.
5. Receipts from plantations ..	233	9	242
6. Receipts from other canal produce ..	1,928	74	2,002
9. Rents of buildings.	282	42	324
10. Fines	5	..	5
11. Miscellaneous ..	1,041	250	1,291
Total, Revenue realized in Public Works Department	3,489	375	3,864
Irrigation Revenue realised in Civil Department	14,99,033	50,151	15,49,184
Total, Direct Receipts ..	15,02,522	50,526	15,53,048
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	34,027	908	34,935
Total, Public Works and Civil Departments, Revenue ..	15,36,549	51,434	15,87,983
Total, Receipts ..	15,36,549	51,434	15,87,983

Charges.	Total. Previous.	1918-1919.	Total.
I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
(1) Head works	4,085	..	4,085
(2) Main canals and branches ..	34,687	1,993	36,680
(3) Distributaries	1,305	..	1,305
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Total ..	40,077	1,993	42,070
II. MAINTENANCE AND REPAIRS—			
(1) Head works	37,198	..	37,198
(2) Main canals and branches ..	2,64,336	8,369	2,72,705
(3) Distributaries	14,404	..	14,404
(4) Drainage and protective works .	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	..	..	..
Total ..	3,15,938	8,369	3,24,307
Total, Extensions and Improvements and Maintenance and Repairs ..	3,56,015	10,362	3,66,377
IV. ESTABLISHMENT	97,567	1,944	99,511
V. TOOLS AND PLANT	1,771	54	1,825
VI. REFUNDS OF REVENUE	45	..	45
Total, Direct Charges ..	4,55,398	12,360	4,67,758
Share of collection charges in the Civil Department	84,521	2,553	87,074
Indirect charges	16,426	272	16,698
Total, Direct and Indirect charges ..	5,56,345	15,185	5,71,530
Deduct—Old maintenance charges saved to Government (a)	3,34,249	6,560	3,40,809
Net Total ..	2,22,096	8,625	2,30,721
Balance, net revenue	13,14,453	42,809	13,57,262
Grand Total ..	15,36,549	51,434	15,87,983

(a)	RS.
Extensions and improvements	2,283
Maintenance and Repairs	3,097
Establishment	1,010
Tools and Plant	28
Total, Direct Charges ..	6,418
Indirect charge	142
Grand Total ..	6,560

CHEMBRAMBAUKAM TANK—*Tank Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of land revenue ...	85,701	...	85,701
Leave and pension allowances	26,846	54	26,900
Total ...	1,12,547	54	1,12,601
REVENUE—			
Leave and pension allowances	16,426	272	16,698
Total ...	16,426	272	16,698
Grand Total ...	1,28,973	326	1,29,299

No 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
Direct Charges.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Works	4,91,801	12.089	5,03,890	2,046	8,000	5,954	5,05,936
Establishment ...	1,24,534	2,737	1,27,271	384	1,719	1,335	1,27,655
Tools and plant ...	8,204	...	8,204	11	...	— 11	8,215
Suspense account ...	...	...	...	...	...	...	...
Total ...	6,24,539	14,826	6,39,365	2,441	9,719	7,278	6,41,806
Less—Receipts on Capital Account ...	114	...	114	...	...	...	114
Net Total ...	6,24,425	14,826	6,39,251	2,441	9,719	7,278	6,41,692
Indirect Charges.							
Capitalized abatement of land revenue ...	85,701	...	85,701	...	..	...	85,701
Leave and pension allowances	26,463	383	26,846	54	...	— 54	26,900
Total ...	1,12,164	383	1,12,547	54	...	— 54	1,12,601
Grand Total ...	7,36,589	15,209	7,51,798	2,495	9,719	7,224	7,54,293

Remarks.	Rs.
G.O. Mis. No. 321 I., dated 1st August 1917	2,700
G.O. Mis. No. 405 I., dated 28th September 1917	1,600
G.O. Mis. No. 113 I., dated 21st March 1918	3,700
Total ..	8,000

MEHAMATTUR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed in March 1891).	Expenditure against closed estimate.
	Previous.	1917–1918.	Total.		
	Rs.		Rs.	Rs.	Rs.
I. WORKS—					
(1) *Head Works*— C. Works	56,967	..	56,967	56,967	56,967
(3) *Distributaries*— C. Works	563	..	563	563	563
Total, Works ..	57,530	..	57,530	57,530	57,530
II. ESTABLISHMENT	13,231	..	13,231	13,231	13,231
(a) Grand Total ..	70,761	..	70,761	70,761	70,761

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	Rs.	Rs.	Rs.	I. EXTENSIONS AND IMPROVEMENTS—	Rs.	Rs.	Rs.
5. Receipts from plantations ..	842	88	930	(1) Head works	2,918	2	2,920
				(2) Main canals and branches ..	10,542	..	10,542
6. Receipts from other canal produce ..	1,607	39	1,646	(3) Distributaries	5,042	..	5,042
				(4) Drainage and protective works ..	..	..	..
9. Rents of buildings.	9	..	9	(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	9,521	..	9,521
11. Miscellaneous ..	28	..	28	Total ..	28,023	2	28,025
				II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in Public Works Department ..	2,486	127	2,613	(1) Head works	37,017	1,455	38,472
				(2) Main canals and branches ..	44,926	662	45,588
				(3) Distributaries	24,803	..	24,803
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	45,826	..	45,826
Irrigation revenue realized in Civil Department ..	4,94,640	15,361	5,10,001	Total ..	1,52,572	2,117	1,54,689
Total, Direct receipts.	4,97,126	15,488	5,12,614	Total, Extensions and Improvements and Maintenance and Repairs ..	1,80,595	2,119	1,82,714
II. INDIRECT RECEIPTS—				IV. ESTABLISHMENT	41,270	800	42,070
				V. TOOLS AND PLANT	104	31	135
				VI. REFUNDS OF REVENUE	2	..	2
Share of land revenue collected in the Civil Department ..	2,721	51	2,772	Total, Direct Charges ..	2,11,971	2,950	2,24,921
				Share of collection charges in the Civil Department	24,867	771	25,638
Total, Public Works and Civil Departments, Revenue ..	4,99,847	15,539	5,15,386	Indirect charges	6,128	112	6,240
				Total, Direct and Indirect Charges ..	2,52,966	3,833	2,56,799
				Deduct—Old maintenance charges saved to Government (a)	14,566	919	15,485
				Net Total ..	2,38,400	2,914	2,41,314
				Balance, net revenue	2,61,447	12,625	2,74,072
Total, Receipts ..	4,99,847	15,539	5,15,386	Grand Total ..	4,99,847	15,539	5,15,386

	Rs.
(a) Extensions and improvements	126
Maintenance and repairs	510
Establishment	240
Tools and plant	9
Total, Direct Charges ..	885
Indirect charges	34
Grand Total ..	919

MEHAMATTUR ANICUT SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of land revenue ...	45	...	45
Leave and pension allowances	1,852	...	1,852
Total ...	1,897	...	1,897
REVENUE—			
Capitalization of abatement of land revenue ...	354	...	354
Leave and pension allowances	5,774	112	5,886
Total ...	6,128	112	6,240
Grand Total ...	8,025	112	8,137

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	Rs.	Rs.	Rs.				Rs.		
Works	56,289	1,241	57,530	...	...	...	57,530		
Establishment ...	12,946	285	13,231	...	...	...	13,231		
Tools and plant ...	...	...	...	...	...	...	...		
Suspense account ...	...	...	...	...	...	...	...		
Total ...	69,235	1,526	70,761	...	...	...	70,761		
Less—Receipts on Capital Account ...	..	..	...	...	...	..	...		
Net Total ...	69,235	1,526	70,761	...	...	...	70,761		
Indirect Charges.									
Capitalized abatement of land revenue ...	...	45	45	...	..	...	45		
Leave and pension allowances ...	1,812	40	1,852	...	...	...	1,852		
Total ...	1,812	85	1,897	...	...	...	1,897		
Grand Total ...	71,047	1,611	72,658	...	...	...	72,658		

VRIDDHACHALAM ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (construction estimate closed in March 1893).	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
	RS.		RS.	RS.	RS.
I. WORKS—					
(1) *Head Works*—					
B. Land	..	..	..	..	..
C. Works	58,094	..	58,094	58,094	58,094
O. Miscellaneous	..	..	..	..	..
Total ..	58,094	..	58,094	58,094	58,094
(2) *Main Canals and Branches*—					
B. Land	158	..	158	158	158
D. Regulators	4,049	..	4,049	4,049	4,049
E. Falls and Weirs	6,315	..	6,315	6,315	6,315
L. Earthwork	..	..	..	..	..
Total ..	10,522	..	10,522	10,522	10,522
Total, Works ..	68,616	..	68,616	68,616	68,616
II. ESTABLISHMENT	15,575	..	15,575	15,575	15,575
III. TOOLS AND PLANT	..	..	..	..	..
* Grand Total ..	84,191	..	84,191	84,191	84 191

* Chargeable to "43. Minor Works and Navigation—Provincial."

No. 3.—Revenue Account for and to end of 1918-1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918-1919.	Total.		Previous.	1918-1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations	1,765	308	2,073	(1) Head works	6,629	..	6,629
6. Receipts from other canal produce ..	1,558	11	1,569	(2) Main canals and branches ..	15,836	..	15,836
9. Rents of buildings ..	26	1	27	(3) Distributaries	9,516	..	9,516
11. Miscellaneous ..	67	..	67	(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay ..	1,968	..	1,968
				Total ..	33,949	..	33,949
Total, Revenue realized in Public Works Department	3,416	320	3,736	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	43,419	1,501	44,920
				(2) Main canals and branches ..	52,733	1,733	54,466
				(3) Distributaries	41,346	..	41,346
				(4) Drainage and protective works ..	1,089	..	1,089
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay ..	53,862	..	53,862
				Total ..	1,92,449	3,234	1,95,683
Irrigation revenue realized in Civil Department ..	7,59,698	23,805	7,83,503				
				Total, Extensions and Improvements and Maintenance and Repairs ..	2,26,398	3,234	2,29,632
Total, Direct Receipts ..	7,63,114	24,125	7,87,239	IV. ESTABLISHMENT	51,254	1,221	52,475
II. INDIRECT RECEIPTS—				V. TOOLS AND PLANT	198	47	245
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	2,77,850	4,502	2,82,352
Share of land revenue collected in the Civil Department ..	17,990	294	18,284	Share of collection charges in the Civil Department	38,882	1,205	40,087
				Indirect charges	7,256	171	7,427
Total, Public Works and Civil Departments, Revenue ..	7,81,104	24,419	8,05,523	Total, Direct and Indirect charges ..	3,23,988	5,878	3,29,866
				Balance, net revenue	4,57,116	18,541	4,75,657
Total, Receipts ..	7,81,104	24,419	8,05,523	Grand Total ..	7,81,104	24,419	8,05,523

VRIDDHACHALAM ANICUT SYSTEM—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of land revenue	314		314
Leave and pension allowances	2,180	...	2,180
Total ...	2,494	...	2,494
REVENUE—			
Capitalization of abatement of land revenue	83		83
Leave and pension allowances	7,173	171	7,344
Total ...	7,256	171	7,427
Grand Total ...	9,750	171	9,921

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current Sanctions.			Total charges to date against old and current sanctions	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	Rs.	Rs.	Rs.				Rs.		
Works	39,405	29,211	68,616	...	...	...	68,616		
Establishment ...	9,063	6,512	15,575	...	...	...	15,575		
Tools and plant...	...		...	...	...	...	...		
Suspense account.			...	...	...				
Total ...	48,468	35,723	84,191				84,191		
Less—Receipts on Capital Account.	...	...		...	...	...			
Net Total ...	48,468	35,723	84,191	...	...		84,191		
Indirect Charges.									
Capitalized abatement of land revenue ...	...	314	314	...	...	...	314		
Leave and pension allowances ...	1,269	911	2,180	...	...		2,180		
Total ...	1,269	1,225	2,494	...	...	...	2,494		
Grand Total ...	49,737	36,948	86,685				86,685		

PELANDORAI ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (closed in 1893).	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
	Rs.	Rs.	Rs	Rs.	Rs.
I. WORKS—					
(1) *Head Works*—					
B. Land		...	...	...	...
C. Works	2,64,856	...	2,64,856	2,64,555	2,64,555
K. Buildings	4,192	...	4,192	4,192	4,192
O. Miscellaneous	2,102	...	2,102	2,102	2,102
Total ...	2,71,150	...	2,71,150	2,70,849	2,70,849
(2) *Main Canals and Branches*—					
B. Land	12,255	...	12,255	12,255	12,255
D. Regulators	9,938		9,938	9,938	9,938
E. Falls and weirs ...	7,083	2,875	9,958	7,384	7,384
F. (1) Other cross drainage works	18,849	...	18,849	18,849	18,849
G. Bridges	15,786	...	15,786	15,786	15,786
H. Escapes	682	...	682	682	682
L. Earthwork	1,00,958	...	1,00,958	1,00,958	1,00,958
N. Tanks and reservoirs ...	38,505	...	38,505	38,505	38,505
Total ...	2,04,056	2,875	2,06,931	2,04,357	2,04,357
(3) *Distributaries*—					
B. Land	...	...	...	...	...
C. Works	9,660	...	9,660	9,660	9,660
L. Earthwork	9,372	..	9,372	9,372	9,372
N. Tanks and reservoirs ...	1,094	...	1,094	1,094	1,094
Total	20,126		20,126	20,126	20,126
(4) *Drainage and Protective Works*—					
B. Land	10,224	1,904	1,904	26,523	...
C. Works		8,997	8,997		...
L. Earthwork		7,310	2,911		...
O. Miscellaneous			3		3
Total ...	10,224	3,591	13,815	26,523	3
(5) *Special tools and plant* .	...	...	...	...	...
Provision for unforeseen works ..	...	...	...	...	...
Total, Works ...	5,05,556	6,466	5,12,022	5,21,855	4,95,335
II. ESTABLISHMENT	1,11,739	2,440	1,14,179	1,15,828	1,10,602
III. TOOLS AND PLANT	5,938	94	6,032	5,938	5,938
Grand Total ...	6,23,233	9,000	6,32,233	6,43,621	6,11,875
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	798	...	798	798	798
* Net Total ...	6,22,435	9,000	6,31,435	6,42,823	6,11,077

* Chargeable to "43. Minor Works and Navigation—Provincial."

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

PELANDORAI ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.
5. Receipts from plantations ..	4,583	415	4,998
6. Receipts from other canal produce ..	5,177	302	5,479
9. Rents of buildings.	307	89	396
10. Fines	1	..	1
11. Miscellaneous .	539	3	542
Total, Revenue realized in Public Works Department	10,607	809	11,416
Irrigation Revenue realized in Civil Department	10,68,203	41,308	11,09,511
Total, Direct receipts ..	10,78,810	42,117	11,20,927
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department.	4,119	76	4,195
Total, Public Works and Civil Departments, Revenue	10,82,929	42,193	11,25,122
Total, Receipts ..	10,82,929	42,193	11,25,122

Charges.	Total. Previous.	1918–1919.	Total.
I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
(1) Head works	16,447	125	16,572
(2) Main canals and branches ..	36,106	1,729	37,835
(3) Distributaries	18,030	148	18,178
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant	..	..	..
Total ..	70,583	2,002	72,585
II. MAINTENANCE AND REPAIRS—			
(1) Head works	2,84,300	3,187	2,87,487
(2) Main canals and branches ..	2,75,425	8,599	2 84,024
(3) Distributaries	38,008	48	38,056
(4) Drainage and protective works ..	123	..	123
(5) Special tools and plant— ..	..	..	..
Add—Unclassifiable outlay ..	..	..	..
Total ..	5,97,856	11,834	6,09,690
Total, Extensions and Improvements and Maintenance and Repairs ..	6,68,439	13,836	6,82,275
IV. ESTABLISHMENT	1,53,537	5,221	1,58,758
V. TOOLS AND PLANT	4,210	200	4,410
VI. REFUNDS OF REVENUE	29	..	29
Total, Direct charges ..	8,26,215	19,257	8,45,472
Share of collection charges in the Civil Department	54,410	2,069	56,479
Indirect charges	25,167	1,212	26,379
Total, Direct and Indirect charges ..	9,05,792	22,538	9,28,330
Deduct—(a) Old maintenance charges saved to Government ..	6,488	169	6,657
Net Total ..	8,99,304	22,369	9,21,673
Balance, Net revenue ..	1,83,625	10,824	2,03,449
Grand Total ..	10,82,929	42,193	11,25,122

	RS.
(a) Extensions and improvements	59
Maintenance and repairs	58
Establishment	44
Tools and plant	2
Total, Direct charges ..	163
Indirect charges	6
Grand Total ..	169

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	27,007	..	27,907
Leave and pension allowances	20,052	342	20,894
Total ..	47,959	342	48,301
REVENUE—			
Capitalization of abatement of land revenue	562	481	1,043
Leave and pension allowances	24,605	731	25,336
Total ..	25,167	1,212	26,379
Grand Total ..	73,126	1,554	74,680

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

PELANDORAI ANICUT SYSTEM—*Canal Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS. 22,600
Works	3,32,345	1,62,990	4,95,335	16,687	26,520	9,833	5,12,022	3,920
Establishment ..	73,999	36,603	1,10,602	3,577	5,226	1,649	1,14,179	26,520
Tools and plant ..	4,438	1,500	5,938	94	..	— 94	6,032	
Suspense account ..	..	..	..	..	..	..	..	
Total ..	4,10,782	2,01,093	6,11,875	20,358	31,746	11,388	6,32,233	
Less—Receipts on Capital Account.	798	.	798	..	..	..	798	
Net Total ..	4,09,984	2,01,093	6,11,077	20,358	31,746	11,388	6,31,435	
Indirect Charges.								
Capitalized abatement of land revenue.	27,489	418	27,907	..	..	..	27,907	
Leave and pension allowances.	14,769	5,124	19,893	501	..	— 501	20,394	
Total ..	42,258	5,542	47,800	501		— 501	48,301	
Grand Total ..	4,52,242	2,06,635	6,58,877	20,859	31,746	10,887	6,79,736	

329 I., dated 7th September 1916. .. 26,520
Mis. 22 I., dated 10th January 1918 .. 3,920
Total .. 26,520

NANDYAR CHANNEL SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed).	Expenditure against closed estimate.
WORKS—	RS.	RS.	RS.	RS.	RS.
2) *Main Canals and Branches*—					
B. Land	..	..	..	..	..
D. Regulators	3,003	..	3,003	3,003	3,003
E. Falls and weirs	6,056	..	6,056	6,056	6,056
F. (1) Other cross drainage works ..	20,155	..	20,155	20,155	20,155
G. Bridges	2,894	..	2,894	2,894	2,894
K. Buildings	15,879	..	15,879	15,879	15,879
L. Earthwork	2,067	..	2,067	2,067	2,067
N. Tanks and reservoirs	514	..	514	514	514
O. Miscellaneous	908	..	908	908	908
Total ..	51,476	.	51,476	51,476	51,476
Total, Works ..	51,476	..	51,476	51,476	51,476
ESTABLISHMENT	11,755	..	11,755	11,755	11,755
TOOLS AND PLANT	..	..	..	..	..
(a) Grand Total ..	63,231	..	63,231	63,231	63,231

(a) Chargeable to "48. Minor Works and Navigation—Provincial."

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

NANDYAR CHANNEL SYSTEM—*Canal Project.*

No. 3.—Revenue Accounts for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantation	2,038	..	2,038
6. Receipts from other canal produce ..	1,528	..	1,528
9. Rent of buildings ..	12	2	14
11. Miscellaneous ..	619	905	1,524
Total, Revenue realized in the Public Works Department	4,197	907	5,104
Irrigation revenue realized in the Civil Department.	63,753	5,216	68,969
Total, Direct Receipts ..	67,950	6,123	74,073
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department	966	54	1,020
Total, Public Works and Civil Departments, Revenue	68,916	6,177	75,093
Total, Receipts ..	68,916	6,177	75,093

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	2,041	201	2,242
(2) Main canals and branches ..	3,347	..	3,347
(3) Distributaries	558	..	558
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Total ..	5,946	201	6,147
II. MAINTENANCE AND REPAIRS—			
(1) Head works	5,078	.	5,078
(2) Main canals and branches ..	37,469	1,752	39,221
(3) Distributaries	7,061	..	7,061
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	..	..	..
Total ..	49,608	1,752	51,360
Total, Extensions and Improvements and Maintenance and Repairs ..	55,554	1,953	57,507
IV. ESTABLISHMENT	12,164	864	13,028
V. TOOLS AND PLANT	531	15	546
VI. REFUNDS OF REVENUE	..	..	..
Total, Direct Charges ..	68,249	2,832	71,081
Share of collection charges in the Civil department	3,234	263	3,497
Indirect charges	1,844	121	1,965
Total, Direct and Indirect Charges ..	73,327	3,216	76,543
* *Deduct*—Old maintenance charges saved to Government	8,084	4,849	12,933
Net Revenue	65,243	— 1,633	63,610
Balance, net revenue	3,673	7,810	11,483
Grand Total ..	68,916	6,177	75,093

* *Deduct*—

	RS.
Extensions and Improvements	2,836
Maintenance and Repairs	371
Establishment	1,418
Tools and plant	25
Total ..	4,650
Indirect	199
	4,849

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	838	..	838
Leave and pension allowances	1,646	..	1,646
Total ..	2,484	..	2,484
REVENUE—			
Capitalization of abatement of land revenue	142	..	142
Leave and pension allowances	1,702	121	1,823
Total ..	1,844	121	1,965
Grand Total ..	4,328	121	4,449

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ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.		
Works	43,488	7,988	51,476	..	..	..	51,476		
Establishment	10,002	1,753	11,755	..	..	..	11,755		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	53,490	9,741	63,231	..	..	..	63,231		
Less—Receipts on Capital Account.	..	..	..	..	..	..	..		
Net Total ..	53,490	9,741	63,231	..	..	..	63,231		
Indirect Charges.									
Capitalized abatement of land revenue.	818	20	838	..	..	..	838		
Leave and pension allowances.	1,400	246	1,646	..	..	..	1,646		
Total ..	2,218	266	2,484	..	..	..	2,484		
Grand Total ..	55,708	10,007	65,715	..	..	..	65,715		

MARUDUR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed in 1893).	Expenditure against closed estimate.
	Rs.		Rs.	Rs.	Rs.
I. WORKS—					
(1) *Head Works*—					
C. Works	10,441	...	10,441	10,441	10,441
Total ...	10,441	...	10,441	10,441	10,441
(2) *Main Canals and Branches*—					
L. Earthwork	1,398	...	1,398	1,398	1,398
N. Tanks and reservoirs	23,658	...	23,658	23,658	23,658
Total ...	25,056	...	25,056	25,056	25,056
(3) *Distributaries*—					
B. Land	308	...	308	308	308
C. Works	3,192	...	3,192	3,192	3,192
L. Earthwork	2,503	...	2,503	2,503	2,503
Total ...	6,003	...	6,003	6,003	6,003
Total, Works ...	41,500	...	41,500	41,500	41,500
II. ESTABLISHMENT	9,041	...	9,041	9,041	9,041
III. TOOLS AND PLANT	...	...	...	...	...
Grand Total ...	50,541	...	50,541	50,541	50,541
Deduct—Receipts on Capital Account ...	..	...	...	...	...
(*a*) Net Total ...	50,541	...	50,541	50,541	50,541

(*a*) Chargeable to "43. Minor Works and Navigation—Provincial."

MARUDUR ANICUT SYSTEM—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS	RS.	RS.
I. DIRECT RECEIPTS—			
5. Receipts from plantations	37	182	219
6. Receipts from other canal produce ..	12,848	1,483	14,331
11. Miscellaneous ..	2,160	414	2,574
Total revenue realized in Public Works Department ..	15,045	2,079	17,124
Irrigation revenue realized in Civil Department ..	35,20,369	91,542	36,11,911
Total, Direct Receipts ..	35,35,414	93,621	36,29,035
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	10,348	270	10,618
Total, Public Works and Civil Departments, revenue ..	35,45,762	93,891	36,39,653
Total, Receipts ..	35,45,762	93,891	36,39,653

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	30	..	30
(2) Main canals and branches ..	10,336	..	10,336
(3) Distributaries	10,251	99	10,350
(4) Drainage and protective works ..	4,094	..	4,094
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay	11,000	..	11,000
Total ..	35,711	99	35,810
II. MAINTENANCE AND REPAIRS—			
(1) Head works	8,704	367	9,071
(2) Main canals and branches ..	1,61,856	1,902	1,63,758
(3) Distributaries	95,835	1,766	97,601
(4) Drainage and protective works ..	7,363	..	7,363
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay	1,98,634	..	1,98,634
Total ..	4,72,392	4,035	4,76,427
Total, Extensions and Improvements and Maintenance and Repairs ..	5,08,103	4,134	5,12,237
IV. ESTABLISHMENT	1,13,609	1,828	1,15,437
V. TOOLS AND PLANT	114	32	146
VI. REFUNDS OF REVENUE	135	..	135
Total, Direct Charges ..	6,21,961	5,994	6,27,955
Share of collection charges in the Civil Department	1,76,536	4,591	1,81,127
Indirect charges	16,347	256	16,603
Total, Direct and Indirect Charges ..	8,14,844	10,841	8,25,685
Deduct—Old maintenance charges saved to Government. (*a*)	1,07,659	7,106	1,14,765
Net Total ..	7,07,185	3,735	7,10,920
Balance, net revenue	28,38,577	90,156	29,28,733
Grand Total ..	35,45,762	93,891	36,39,653

	RS.
(*a*) Extensions and improvements	200
Maintenance and repairs	4,500
Establishment	2,079
Tools and plant	36
Total, Direct Charges ..	6,815
Indirect Charges ..	291
Grand Total ..	7,106

No. 5.—Account of Indirect Charges for and to end of 1917–1918.

Particulars.	Previous.	1917–1918.	Total.
	RS.	RS.	RS.
CAPITAL—			
Leave and pension allowances	1,265	..	1,265
Total ..	1,265	..	1,265
REVENUE—			
Capitalization of abatement of land revenue	444	..	444
Leave and pension allowances	15,903	256	16,159
Total ..	16,347	256	16,603
Grand Total ..	17,612	256	38

MARUDUR ANICUT SYSTEM—*Canal Project.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks. G.O. No. and Date.	Amount of estimate.
Direct Charges.	RS.	RS.	RS.				RS.		
Works	2,590	8,910	41,500	..	..	..	41,500		
Establishment ..	7,496	1,545	9,041	..	..	..	9,041		
Tools and plant ..	..	..	..	..	..	..	..		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	40,086	10,455	50,541	..	..	..	50,541		
Less—Receipts on Capital account	..	..	..	..	..	..	..		
Net Total ..	40,086	10,455	50,541	..	..	..	50,541		
Indirect Charges.									
Capitalized abatement of land revenue ..	..	..	..	..	..	..	..		
Leave and pension allowances	1,049	216	1,265	..	..	..	1,265		
Total ..	1,049	216	1,265	..	..	..	1,265		
Grand Total ..	41,135	10,671	51,806	..	..	..	51,806		

PANJAMPATTI RESERVOIR—*Tank Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated.	Expenditure against closed estimate.
	RS.	RS.	RS.	RS.	
I. WORKS—					
(1) Head Works—					
A. Preliminary Expenses	923	13	936	1,020	..
B. Land	60,152	525	60,677	60,152	..
C. Works	5,658	..	5,658	12,362	..
K. Buildings	32	35	67	5,310	..
L. Earthwork	1,18,100	28,751	1,46,851	1,65,664	..
O. Miscellaneous (Unforeseen works) ..	11,411	..	11,441	7,960	..
P. Maintenance	112	97	209	486	..
Total ..	1,96,418	29,421	2,25,839	2,52,954	..
(3) Distributaries—					
A. Preliminary Expenses	397	28	425	880	..
B. Land	..	2,517	2,517	..	..
C. Works	288	1,064	1,352	..	..
L. Earthwork	..	..	..	11,005	..
O. Miscellaneous	..	..	..	..	..
Total ..	685	3 609	4,294	11,885	..
(5) Special tools and plant— Provision for unforeseen works ..	..	..	..	..	..
Total Works ..	1,97,103	33,030	2,30,133	2,64,839	..
II. ESTABLISHMENT	29,286	14,604	43,890	42,927	..
III. TOOLS AND PLANT	55,948	261	56,209	28,324	..
Grand Total ..	2,82,337	47,895	3,30,232	3,36,090	..
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT.	443	88	531	..	..
(*a*) Net Total ..	2,81,894	47,807	3,29,701	3,36,090	..

(*a*) Chargeable to '48. Minor Works and Navigation—Provincial.'

IRRIGATION BRANCH. PUBLIC WORKS DEPARTMENT.

PANJAMPATTI RESERVOIR—*Tank Project.*

No. 5.—Accounts of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918-1919.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	5,222	174	5,396
Leave and pension allowances	4,100	2,045	6,145
Total ..	9,322	2,219	11,541
Grand Total ..	9,322	2,219	11,541

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.				RS.	RS.	RS.	RS.	*Direct Charges.*	RS.
Works	..	..	..	2,30,133	2,64,839	34,706	2,30,133	228 I., 11th June 1917.	2,64,839
Establishment	..	..	..	43,890	42,927	— 963	43,890		
Tools and plant	..	..	..	56,209	28,324	— 27,885	56,209		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	..	..	..	3,30,232	3,36,090	5,858	3,30,232		
Less—Receipts on Capital Account	..	..	..	531	..	— 531	531		
Net total ..	..	..	..	3,29,701	3,36,090	6,389	3,29,701		
Indirect Charges.								*Indirect Charges.*	
Capitalized abatement of land revenue	..	..	..	5,396	62,500	57,104	5,396	228 I., 11th June 1917.	68,510
Leave and pension allowances	..	..	..	6,145	6,010	— 135	6,145		
Total ..	..	..	..	11,541	68,510	56,969	11,541		
Grand Total ..	..	..	..	3,41,242	4,04,600	63,358	3,41,242		

CHILKA LAKE CANAL—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated (closed on 31st March 1893).	Expenditure against closed estimate.
	Previous.	1918-1919.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(2) *Main Canals and Branches*—					
L. Earthwork	24,450	..	24,450	24,450	24,450
Total ..	24,450	..	24,450	24,450	24,450
5) *Special tools and plant*—					
Total, Works ..	24,450	..	24,450	24,450	24,450
II. ESTABLISHMENT	5,624	..	5,624	5,624	5,624
III. TOOLS AND PLANT	166	..	166	166	166
(a) Grand Total ..	30,240	..	30,240	30,240	30,240

(a) Chargeable to '43. Minor Works and Navigation—Provincial.'

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918–19. **MADRAS PRESIDENCY.**

CHILKA LAKE CANAL—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918-1919.	Total.		Previous.	1918-1919.	Total.
I. DIRECT RECEIPTS—	RS.		RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.		RS.
5. Receipts from Plantation	102	..	102	(1) Head works	..	..	..
Receipts from other canal produce	194	..	194	(2) Main canals and branches ..	..	..	..
11. Miscellaneous ..	135	..	135	(3) Distributaries	50	..	50
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant—			
				Total ..	50	..	50
				II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in the Public Works Department	431	..	431	(1) Head works	..	..	..
				(2) Main canals and branches ..	20,488	..	20,488
				(3) Distributaries	..	..	..
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant—	..	..	..
				Add—Unclassifiable outlay ..			
				Total ..	20,488	..	20,488
Total, Public Works and Civil Departments, Revenue	431	..	431	Total, Extensions and Improvements and Maintenance and Repairs ..	20,538	..	20,538
				IV. ESTABLISHMENT	4,663	..	4,663
				V. TOOLS AND PLANT	5	..	5
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	25,206	..	25,206
				Share of collection charges in the Civil Department	..	..	..
				Indirect charges	652	..	652
				Total, Direct and Indirect Charges ..	25,858	..	25,858
				Balance, net revenue ..	— 25,427	..	— 25,427
Total, Receipts ..	431		431	Grand Total ..	431	..	431

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918-1919.	Total.
CAPITAL—	RS.		RS.
Leave and pension allowances	787	..	787
Total ..	787	..	787
REVENUE—			
Leave and pension allowances	652	..	652
Total ..	652	..	652
Grand Total ..	1,439	..	1,439

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		
Direct Charges.	RS.		RS.				RS.	
Works	24,450	..	24,450	..	..	..	24,450	
Establishment	5,624	..	5,624	..	..	..	5,624	
Tools and plant	166	..	166	..	..	..	166	
Total ..	30,240	..	30,240	..	..	..	30,240	
Less—Receipts on Capital Account ..	..	..	..	..	..	..	..	
Net total ..	30,240	..	30,240	..	..	..	30,240	
Indirect Charges.								
Capitalised abatement of land revenue ..	..	..	..	..	..	..	..	
Leave and pension allowances	787	..	787	..	..	..	787	
Total ..	787	..	787	..	..	..	787	
Grand Total ..	31,027	..	31,027	..	..	..	31,027	

GANJAM-GOPALPUR CANAL—*Canal Project.*

No. 2.—Capital Account for and to end of 1918-1919.

Heads of account.	Direct Charges. Previous.	1918-1919.	Total.	Cost of construction as now estimated (closed in 1893).	Expenditure against closed estimate.
	RS.		RS.	RS.	RS.
I. WORKS—					
2. *Main Canals and Branches*—					
A. Preliminary Expenses	623	..	623	623	623
B. Land	632	..	632	632	632
L. Earthwork	94,093	..	94,093	94,093	94,093
O. Miscellaneous	7,327	..	7,327	7,327	7,327
Total ..	1,02,675	..	1,02,675	1,02,675	1,02,675
5. *Special tools and plant*—					
Total, Works ..	1,02,675	..	1,02,675	1,02,675	1,02,675
II. ESTABLISHMENT	37,799	..	37,799	37,799	37,799
III. TOOLS AND PLANT	2,733	..	2,733	2,733	2,733
Grand Total ..	1,43,207	..	1,43,207	1,43,207	1,43,207
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT ..	107	..	107	107	107
(a) Net Total ..	1,43,100	..	1,43,100	1,43,100	1,43,100

(a) Chargeable to '43. Minor Works and Navigation—Provincial.'

No. 3.—Revenue Account for and to end of 1918-1919.

Receipts.	Total. Previous.	1918-1919.	Total.
	RS.	RS.	RS.
DIRECT RECEIPTS—			
5. Receipts from plantations ..	359	56	415
6. Receipts from other canal produce	285	..	285
11. Miscellaneous ..	247	..	247
Total, Revenue realized in the Public Works Department ..	891	56	947
Total, Public Works and Civil Departments, Revenue	891	56	947
Total, Receipts ..	891	56	947

Charges.	Total. Previous.	1918-1919.	Total.
	RS.	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	..	..	..
(2) Main canals and branches ..	555	..	555
(3) Distributaries ..	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant—			
Total ..	555	..	555
II. MAINTENANCE AND REPAIRS—			
(1) Head works	..	..	..
(2) Main canals and branches ..	3,687	162	3,849
(3) Distributaries	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant—	..	..	..
Add—Unclassifiable outlay			
Total ..	3,687	162	3,849
Total, Extensions and Improvements and Maintenance and Repairs ..	4,242	162	4,404
IV. ESTABLISHMENT	874	59	933
V. TOOLS AND PLANT	..	4	4
VI. REFUNDS OF REVENUE	..	..	..
Total, Direct Charges ..	5,116	225	5,341
Share of collection charges in the Civil Department	..	..	.
Indirect Charges	424	8	432
Total, Direct and Indirect Charges ..	5,540	233	5,773
Balance, not revenue	— 4,649	— 177	— 4,826
Grand Total ..	91	56	947

GANJAM-GOPALPUR CANAL—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918-1919.

Particulars.	Previous.	1918-1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of Land Revenue.	7,100	...	7,100
Leave and Pension Allowances	5,293	...	5,293
Total ...	12,393	...	12,393
REVENUE—			
Capitalization of abatement of Land Revenue.	303	...	303
Leave and Pension Allowances	121	8	129
Total ...	424	8	432
Grand Total ...	12,817	8	12,825

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions. Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Current Sanctions. Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	Remarks.
Direct Charges.	Rs.		Rs.				Rs.	
Works	1,02,675	...	1,02,675	...	...	...	1,02,675	
Establishment ...	37,799	...	37,799	...	...	...	37,799	
Tools and plant ...	2,733	...	2,733	...	...	...	2,733	
Total ...	1,43,207	...	1,43,207	...	...	...	1,43,207	
Less—Receipts on Capital Account.	107	..	107	...	..	..	107	
Net Total ...	1,43,100	...	1,43,100	..	...	...	1,43,100	
Indirect Charges.								
Capitalized abatement of land revenue	7,100	...	7,100	...	...	..	7,100	
Leave and pension allowances ...	5,293	...	5,293	...	...	...	5,293	
Total ..	12,393	.	12,393	...	...	...	12,393	
Grand Total ...	1,55,493	...	1,55,493	...	...	...	1,55,493	

BUCKINGHAM CANAL—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges. Previous.	1918–1919.	Total.	Cost of construction as now estimated (construction estimate closed in March 1897).	Expenditure against closed estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.
I. WORKS—					
(2) *Main Canals and Branches*—					
A. Preliminary expenses ...	10,642	...	10,642	10,642	10,642
B. Land	3,80,244	...	3,80,244	3,81,254	3,80,244
D. Regulators	1,230	...	1,230	1,230	1,230
E. Falls and weirs	3,182	...	3,182	3,182	3,182
F. River and hill torrent works.	11,020	...	11,020	11,020	11,020
F. (1) Other cross drainage works	87,717	...	87,717	87,717	87,717
G. Bridges	2,48,996	...	2,48,996	2,48,996	2,48,996
H. Escapes	22,022	...	22,022	26,172	22,022
I. Navigation works	12,74,994	...	12,74,994	12,74,994	12,74,994
K. Buildings	52,305	...	52,305	52,305	52,305
L. Earthwork	41,42,065	12,767	41,54,832	41,66,352	41,40,122
O. Miscellaneous	22,982	...	22,982	22,982	22,982
Total ...	62,57,399	12,767	62,70,166	62,86,846	62,55,456
(5) Special tools and plant ...	...	...	..	...	...
Provision for unforeseen works ...		...	..	...	...
Total outlay on current sanctions ...	62,57,399	12,767	62,70,166	62,86,846	62,55,456
Old outlay	5,04,091	..	5,04,091	5,04,091	5,04,091
Total, Works ...	67,61,490	12,767	67,74,257	67,90,937	67,59,547
II. ESTABLISHMENT	16,02,529	2,395	16,04,924	16,08,642	16,02,111
III. TOOLS AND PLANT	1,80,762	67	1,80,829	1,80,762	1,80,762
Grand Total ...	85,44,781	15,229	85,60,010	85,80,341	85,42,420
V. *Less*—RECEIPTS ON CAPITAL ACCOUNT	24,326	...	24,326	24,326	24,326
(*a*) Net Total ...	85,20,455	15,229	85,35,684	85,56,015	85,18,094
(*a*) Chargeable to 35. Protective Major Works	6,66,112	...	6,66,112	...	...
Chargeable to 43. Minor Works and Navigation—Provincial ...	78,54,343	15,229	78,69,572	...	...
Total ...	85,20,455	15,229	85,35,684	...	...

BUCKINGHAM CANAL—*Canal Project.*

No. 3.—Revenue Account for and to end of 1918–1919.

Receipts.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS
I. DIRECT RECEIPTS—			
3. Sale of water ..	350	..	350
5. Receipts from plantations	6,639	760	7,399
6. Receipts from other canal produce ..	60,974	4,429	65,403
8. Navigation receipts..	30,59,427	80,328	31,49,755
9. Rents of buildings ..	6,720	168	6,888
10. Fines	1,363	..	1,363
11. Miscellaneous ..	15,733	1,772	17,505
Receipts for which classification is not obtainable ..	14,11,168	..	14,11,168
Total revenue realised in the Public Works Department ..	45,72,374	87,457	46,59,831
Total, Direct receipts ..	45,72,374	87,457	46,59,831
Total, Public Works and Civil Departments, Revenue ..	45,72,374	87,457	46,59,831
Total, Receipts ..	45,72,374	87,457	46,59,831

Charges.	Total. Previous.	1918–1919.	Total.
	RS.	RS.	RS.
I.—EXTENSIONS AND IMPROVEMENTS—			
(1) Head works	..	..	..
(2) Main canals and branches ..	1,09,221	7,802	1,17,023
(3) Distributaries	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Total ..	1,09,221	7,802	1,17,023
II.—MAINTENANCE AND REPAIRS—			
(1) Head works	..	..	..
(2) Main canals and branches ..	35,67,909	1,53,564	37,21,473
(3) Distributaries	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay	2,88,470	..	2,88,470
Total ..	38,56,379	1,53,564	40,09,943
Total, Extensions and Improvements and Maintenance and Repairs ..	39,65,600	1,61,366	41,26,966
IV. ESTABLISHMENT	12,06,058	30,276	12,36,334
V. TOOLS AND PLANT	1,26,770	841	1,27,611
VI. REFUNDS OF REVENUE	20,486	29	20,515
Total, Direct Charges ..	53,18,914	1,92,512	55,11,426
Share of collection charges in the Civil Department.	..	..	..
Indirect charges	1,68,596	4,239	1,72,835
Total, Direct and Indirect Charges ..	54,87,510	1,96,751	56,84,261
Balance, net revenue	—9,15,136	—1,09,294	—10,24,430
Grand Total ..	45,72,374	87,457	46,59,831

BUCKINGHAM CANAL—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
	Rs.	Rs.	Rs.
CAPITAL—			
Capitalization of abatement of land revenue	2,62,365	...	2,62,365
Leave and pension allowances	2,25,950	335	2,26,285
Total ...	4,88,315	335	4,88,650
REVENUE—			
Capitalization of abatement of land revenue	363	...	363
Leave and pension allowances	1,68,233	4,239	1,72,472
Total ...	1,68,596	4,239	1,72,835
Grand Total ...	6,56,911	4,574	6,61,485

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed sanctions.			Current sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	Rs.	Rs.	Rs.				Rs.		
Works	66,72,338	87,209	67,59,547	14,710	31,390	16,680	67,74,257	74 I., 21st Feb. 1917.	
Establishment ...	15,85,806	16,305	16,02,111	2,813	6,531	3,718	16,04,924		
Tools and plant ...	1,80,720	42	1,80,762	67	...	—67	1,80,822		
Suspense account.	..	...	...	...	...	...	...		
Total ...	84,38,864	1,03,556	85,42,420	17,590	37,921	20,331	85,60,010	301 I., 23rd July 1917.	1,010
Less—Receipts on Capital Account.	4,502	19,824	24,326	...	...	...	24,326	Mis. 518 I., 15th Feb. 1917.	24,000
Net Total ...	84,34,362	83,732	85,18,094	17,590	37,921	20,331	85,35,684	Mis. 54 I., 5th Feb. 1918.	2,230
Indirect Charges.									4,150
Capitalized abatement of land revenue ..	2,62,365	...	2,62,365	...	...	...	2,62,365	Total ...	31,390
Leave and pension allowances ...	2,23,608	2,283	2,25,891	394	...	—394	2,26,285		
Total ...	4,85,973	2,283	4,88,256	394	...	—394	4,88,650		
Grand Total ...	89,20,335	86,015	90,06,350	17,984	37,921	19,937	90,24,334		

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VEDARANNIYAM CANAL—*Canal Project.*

No. 2.—Capital Account for and to end of 1918–1919.

Heads of account.	Direct Charges.			Cost of construction as now estimated closed in 1893.	Expenditure against closed estimate.
	Previous.	1917–1918.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(2) *Main Canals and Branches*— Unclassifiable outlay	1,07,885	..	1,07,885	1,07,885	1,07,885
Total ..	1,07,885	..	1,07,885	1,07,885	1,07,885
Total, Works ..	1,07,885	..	1,07,885	1,07,885	1,07,885
II. ESTABLISHMENT	24,814	..	24,814	24,814	24,814
(a) Grand Total ..	1,32,699	..	1,32,699	1,32,699	1,32,699

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

No. 3.—Revenue Accounts for and to end of 1918–1919.

Receipts.	Total.			Charges.	Total.		
	Previous.	1918–1919.	Total.		Previous.	1918–1919.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations	106	..	106	(1) Head works	..	..	..
				(2) Main canals and branches	3,287	229	3,516
				(3) Distributaries	..	..	..
6. Receipts from other canal produce ..	364	32	396	(4) Drainage and protective works ..	638	..	638
				(5) Special tools and plant ..	..	..	..
				Total ..	3,925	229	4,154
8. Navigation receipts.	32,698	607	33,305	II. MAINTENANCE AND REPAIRS—			
10. Fines	145	..	145	(1) Head works	..	..	..
				(2) Main canals and branches ..	1,58,024	2,863	1,60,887
11. Miscellaneous ..	14	..	14	(3) Distributaries	..	..	..
				(4) Drainage and protective works ..	161	3,430	3,591
				(5) Special tools and plant ..	..	53	53
				Add—Unclassifiable outlay ..	..	..	..
Total, Revenue realized in Public Works Department	33,327	639	33,966	Total ..	1,58,185	6,346	1,64,531
				Total, Extensions and Improvements and Maintenance and Repairs ..	1,62,110	6,575	1,68,685
Total, Direct Receipts ..	33,327	639	33,966	IV. ESTABLISHMENT	38,502	2,481	40,983
				V. TOOLS AND PLANT	7,375	95	7,470
				VI. REFUNDS OF REVENUE	40	1	41
				Total, Direct Charges ..	2,08,027	9,152	2,17,179
Total, Public Works and Civil Departments, Revenue	33,327	639	33,966	Share of collection charges in the Civil department	..	..	..
				Indirect charges	6,026	347	6,373
				Total, Direct and Indirect Charges ..	2,14,053	9,499	2,23,552
				Balance, net revenue	—1,80,726	—8,860	—1,89,586
Total, Receipts ..	33,327	639	33,966	Grand Total ..	33,327	639	33,966

VEDARANNIYAM CANAL—*Canal Project.*

No. 5.—Account of Indirect Charges for and to end of 1918–1919.

Particulars.	Previous.	1918–1919.	Total.
CAPITAL—	Rs.	Rs.	Rs.
Capitalization of abatement of land revenue	259	...	259
Leave and pension allowances	3,474	...	3,474
Total ...	3,733	...	3,733
REVENUE—			
Capitalization of abatement of land revenue	655	...	655
Leave and pension allowances	5,371	347	5,718
Total ...	6,026	347	6,373
Grand Total ...	9,759	347	10,106

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	Charges against closed Sanctions.			Current Sanctions.			Total charges to date against old and current sanctions.	Remarks.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
Direct Charges.	Rs.	Rs.	Rs.				Rs.		
Works	1,07,885	...	1,07,885	..	...	...	1,07,885		
Establishment ...	24,814	...	24,814	...	...	...	24,814		
Tools and plant ...	...	...	...	...	...	...	...		
Suspense account.	...	...	...	...	...	...	...		
Total ...	1,32,699	...	1,32,699	...	...	...	1,32,699		
Less—Receipts on Capital Account.	...	...	...	...	...	...	...		
Net Total ...	1,32,699	...	1,32,699	...	...	...	1,32,699		
Indirect Charges.									
Capitalized abatement of land revenue ...	...	259	259	...	...	...	259		
Leave and pension allowances ...	3,474	...	3,474	...	...	...	3,474		
Total ...	3,474	259	3,733	...	...	...	3,733		
Grand Total ...	1,36,173	259	1,36,432	...	...	...	1,36,432		

MADRAS,
14th October 1919.

K. R. S. RAU
Deputy Accountant-General.

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