



134

PUBLIC WORKS DEPARTMENT
MADRAS PRESIDENCY

ADMINISTRATION REPORT

(WITH ADMINISTRATIVE ACCOUNTS)

FOR THE YEAR

1938-39

PART II—IRRIGATION

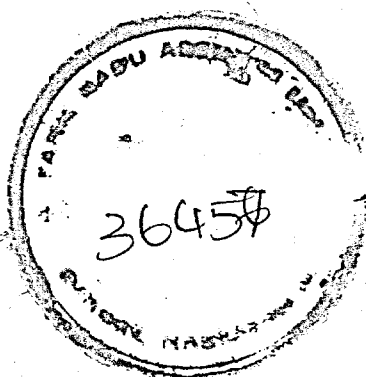
MADRAS
PRINTED BY THE SUPERINTENDENT
GOVERNMENT PRESS
1940

56

134

DI. 2117 1488

N 40. 2.



Administration Report more
two chapters I and
ation and a descriptive
have been added as in
topographs, sketches and
in the last year.

To make the Administration Report more attractive to the general public, two chapters I and II giving a bird's eye-view of irrigation and a description of important works respectively have been added as in the previous year. A number of photographs, sketches and diagrams have also been added as in the last year.

TABLE OF CONTENTS

ADMINISTRATION REPORT OF THE PUBLIC WORKS DEPARTMENT IRRIGATION BRANCH FOR THE YEAR 1938-39.

CHAPTER I.

	PAGES
bird's eye-view of irrigation	1-5

CHAPTER II.

Brief description of important irrigation and navigation works..	5-22
--	------

CHAPTER III.

Salient features of the Administration of the Public Works Department Irrigation Branch for the year 1939	22-25
--	-------

CHAPTER IV.

	PAGES		PAGES
Personnel	25	A.—Irrigation Works—Unproductive	
Classification of works	25	—cont.	
Total outlay, revenue and extent		Revenue	27
irrigated	25-26	Working expenses	27
Financial results—		Value of crops	28
Productive works.. .. .	26	Remissions	28
Unproductive works	26	B.—Navigation, Embankment and	
Minor works	26	Drainage Works—Unproductive	
A.—Irrigation Works—Productive—		—Navigation canals—Receipts..	28
Number of works	26	Works for which Capital and Rev-	
Length of canals	26	enue Accounts are not kept—	
Area irrigated	26	Irrigation works	28
Capital outlay	26	Tank Restoration Scheme	
Working expenses	26	works	28-29
Revenue	26	Navigation, Embankment and	
Financial results	27	Drainage Works	29
Revenue and working expenses		Projects and consider-	
per acre	27	ation	29-32
Value of crops	27	Character of the season..	32
Remissions	27	Floods	33
A.—Irrigation Works—Unproductive—		Breaches and accidents..	33-34
Number of works	27	Irrigation Advisory	
Capital outlay	27	Boards	34
Length of canals	27	Irrigation panchayats ..	34
Area irrigated	27	General	34

CHAPTER V.

I.—Works for which Capital and Revenue accounts are kept.

A.—Important works carried out during the year.

Cauvery Delta system	34-35	Kat'alai Scheme	37
Godavari Delta system	35	Nagavalli River system	37
Pennar River Canals system	35	Thippayapalem Project	37
Kistna Delta system	35-36	Basavannah channel	37
Polavaram Island Project	36	Duvvaleru Project	37
Cauvery-Mettur Project	36	Buckingham canal	37

*II.—Works for which Capital and Revenue accounts are not kept.**Page 38.**B.—Season, Rainfall and Supply.*

	PAGES		PAGES
Godavari delta	38	Grand Anicut canal	39
Nagavalli River system	38	Madras Water-supply and Irrigation	39
Kistna Delta system	38	Periyar system	39
Pennar River Canals system	38	Tambraparni system	39
Cauvery delta system	39		
C.—Closure of canals	40		
D.—Industrial crops	40		

*E. General Report on Works for which Capital and Revenue Accounts are not kept.**I. Irrigation Works.*

Number of works	40	Particulars of revenue	41
Area irrigated and financial results	40	Financial results	41
Outlay	41	Tank Restoration Scheme works	42

II. Navigation, Embankment and Drainage Works.

Receipts	42	Expenditure	42
----------------	----	-------------------	----

APPENDIX I.

Statistical statements—	Statistical statements—cont.
Statement A-I.—Canal projects with particulars regarding discharges, rainfall, area commanded, cost of construction, expenditure, interest charges and length of canals, etc. ..	Statement C-IV.—Financial results (based on assessment for the year) of Irrigation, Navigation, Embankment and Drainage works for which Capital and Revenue accounts are kept ..
43-16	72-75
Statement A-II.—Reservoir projects with similar particulars as above ..	Statement D-I.—Statement of traffic on the principal navigable canals ..
47-49	76
Statement B-I.—Capital Account of Irrigation, Navigation, Embankment and Drainage works for which Capital and Revenue accounts are kept ..	Statement D-II.—Description and quantities of goods, etc., carried on the principal navigable canals ..
50-54	77-80
Statement C-I.—Financial results showing receipts and expenditure against Revenue, etc., of Irrigation, Navigation, Embankment and Drainage works for which Capital and Revenue accounts are kept ..	Statement E-I.—Areas irrigated, etc., under irrigation works classed as productive and unproductive for which Capital and Revenue accounts are kept ..
55-62	81-82
Statement C-II.—Financial results (based on actual receipts) showing capital outlay, gross receipts working expenses, interest charges, etc., of Irrigation, Navigation, Embankment and Drainage works for which Capital and Revenue accounts are kept ..	Statement E-II.—Incidence of working expenses and assessed water revenue on irrigation systems under irrigation works classed as productive and unproductive for which Capital and Revenue accounts are kept ..
63-68	83-84
Statement C-III.—Demands and realizations of Irrigation, Navigation, Embankment and Drainage works for which Capital and Revenue accounts are kept ..	Statement E-III.—Areas irrigated and the value of crops raised ..
69-71	85-89
	Statement E-IV.—Comparative statement of irrigation and rainfall ..
	90-93
	Statement F-I.—Incidence of water-rates under irrigation works classed as productive and unproductive for which Capital and Revenue accounts are kept ..
	94-95

APPENDIX II.

Statement showing the results of irrigation.

	PAGES
Statements I and II.—Financial results of irrigation works classed as productive and unproductive for which Capital and Revenue accounts are kept	96-101

APPENDIX III.

Statement showing the extent irrigated and the revenue derived under minor works for which Capital and Revenue accounts are not kept ..	102-103
---	---------

APPENDIX IV.

Statement showing the number of wells used for irrigation in fasli 1348 (1938-39), Parts I and II	104
---	-----

INDEX TO PHOTOGRAPHIC VIEWS, DIAGRAMS AND SKETCHES CONTAINED IN THE REPORT.

	<i>Facing page</i>
<i>Photographic views—</i>	
1 Nattar-Vanjiar Regulators, Tanjore district	6
2 Veliyangod Lock in Ponnani-Cochin canal	29
3 Plan of the Agricultural Research Station, Siruguppa ..	30
4 Chillie crop—(Bulk) at Siruguppa Experimental station ..	31
5 Anicut across the Hebbahalla	32
6 Improvements to Bezwada under sluices—Front view ..	35
7 Bezwada wharf	35
8 A model showing proposed sub-way under Madras and Southern Mahratta Railway and new bridges over Ellore and Ryves' canals at Bezwada	36
9 Red Hills tank automatic shutters—Rear view	39

	PAGE
<i>Diagrams—</i>	
1 Diagram of area irrigated in Madras Presidency	6
2 Financial Record—Showing Revenue Expenditure—Productive and unproductive systems	facing 6
3 Financial Record—Cauvery Delta system	16
4 " Lower Coleroon Anicut system	16
5 " Cauvery-Mettur Project	17
6 " Tolundur Project	17
7 " Godavari Delta system	18
8 " Kistna Delta system	18
9 " Polavaram Island project	19
10 " Kistna East Bank canal	19
11 " Periyar system	20
12 " Srivaikuntam Anicut system	20
13 " Buckingham canal	21
14 " Kurnool-Cuddapah canal	21
15 " Pennar River Canals system	22

<i>Marginal sketches—</i>	
1 Cauvery Delta system	5
2 Srivaikuntam Anicut system	7
3 Godavari Delta system	7
4 Pennar River Canals system	9
5 Periyar system	9
6 Kistna Delta system	10
7 Kistna East Bank canal	11
8 Lower Coleroon Anicut system	11
9 Willingdon reservoir	12
10 Polavaram Island system	12
11 Cauvery-Mettur system	12
12 Kurnool-Cuddapah canal	13
13 Buckingham canal	15

ADMINISTRATION REPORT FOR THE YEAR 1938-39

PART II—IRRIGATION

Chapter I.

A BIRD'S EYE-VIEW OF IRRIGATION IN MADRAS PRESIDENCY.

Anyone that knows the large deltas in the Presidency will realize what a difference to their wealth and prosperity irrigation has made. Agriculture which is dependent on irrigation is the main industry of India and it must continue to hold the premier place; all other industries are dependent, in a final analysis, on agriculture. If the ryot is prosperous, other industries and the country generally are prosperous. If the ryot is poor, the country is poor and the money that is required to ensure the prosperity of other industries will not circulate.

A brief summary of the irrigation systems in the Presidency is given below.

Starting in the Northern Circars, the Nagavalli system irrigates the largest area in Vizagapatam district. By means of a regulator across the river at Thotapalli sufficient water is diverted to the land through the main canal and its branch channels to irrigate roughly 30,000 acres. The project was completed in 1909 and has been of great benefit to the ryots. Quite a large area in Vizagapatam and in that part of the old Ganjam district which still remains in this Presidency is irrigated under river channels which take off from the river without the help of regulators or anicuts. Though individually the area under each channel is small the total area irrigated is nearly 67,000 acres.

The next is Godavari delta. To those who have not the local knowledge the fact that the annual value of the crops now grown in this delta is several crores will convey some idea of the benefits of irrigation. The Godavari ryots have recently erected at Dowlaishwaram and Chettipetta statues to commemorate the memory of Sir Arthur Cotton, the originator of the scheme, and by doing so have shown their appreciation of what he has done for the district by conveying the life-giving fluid to their lands. Roughly one million acres are irrigated by the network of canals and channels thousands of miles long; the value of the crops grown annually exceeds five crores. The canals have been designed not only for

irrigation but also for navigation. Sixty locks have been built and more are being considered. About 400 miles of the canals are navigable for boats up to ninety tons and the major part of the exports and imports from and to the delta is conveyed by boat. By means of the Godavari and Kistna canals and the Buckingham canal one can go by boat from Madras to Rajahmundry, a distance of 350 miles, and from Rajahmundry one can continue the journey by boat beyond Bhadrachalam right up to the Central Provinces, a further distance of 188 miles.

The next is the Kistna delta. A few extracts from Walch's History of the Kistna Delta will not be out of place :—

" In 1832-33 a terrible famine devastated a great part of the Madras Presidency. Through the very heart of the area where the distress was greatest and human beings were dying by hundreds of thousands, because their crops had failed from drought, the Kistna and Godavari rivers were rolling down enormous quantities of water to the sea.

" In Guntur district, lying on the right side of the river, part of which is now known as the ' Western delta ' not less than 200,000 persons perished ' by starvation ' and by the fever which followed famine " whilst condition on the other side of the river in what is known as the ' Eastern delta ' can be realized from the following quotation.

" The Europeans throughout the country have subscribed liberally to feed as many of the poor starving wretches as possible, and by this means tens of thousands are daily fed in Masulipatam alone. But ten times that number are still famishing and hundreds die daily, literally of starvation. The swamp around the fort is found each morning strewn with the bodies of those who have died during the night; and although a strong body of police are constantly employed in collecting the dead and throwing them into a huge pit prepared for the purpose, they cannot succeed in keeping the ground clear, and numbers of bodies are left to be devoured by dogs and vultures.

" The description in the ' Siege of Corinth ' of the dogs gnawing human skulls is mild compared to the scenes of horror we are daily forced to witness in our morning and evening rides."

He adds some further and even more gruesome details.

The recurrent famines and the devastating losses they caused set the Government of the day thinking and they resolved to push forward the Godavari and Kistna projects. At Bezvada in Kistna district an anicut across the Kistna was built in 1855 (shortly after the Dowlaishwaram anicut). The anicut diverts water through a network of canals and channels to irrigate 1,000,000 acres in Kistna and Guntur districts. The Kistna canals are also navigable and the greater part of the trade of the deltaic portions of the two districts is carried on by boats. Our Godavari and Kistna projects are probably the most beneficial and most successful irrigation

schemes ever executed by any Government in the world. They have improved the condition of the people of the districts beyond the highest expectations of their originator, while the return on the capital invested in building them has sufficed not only to maintain and keep the systems up to date but has provided a continuous source of revenue which has enabled Government to initiate other projects, far less attractive financially in less favoured districts.

Leaving the rich districts of Guntur and Kistna and coming down to Nellore, we meet a dry and barren district but advantage has been taken of any facilities that exist for extending irrigation. Near the sea coast, the rainfall is generally favourable, and with the addition of some extra water, supplied by means of irrigation, excellent crops are grown. Nellore rice is famous for its quality. Two anicuts across the Pennar, divert water to the Kanigiri and Survepalli reservoirs and about 100,000 acres of paddy are cultivated under them annually. Further, inland, the Mopad reservoir built in 1921 as a famine-protective work, has fulfilled the purpose for which it was intended.

Leaving Nellore we shall divert from our course for a few moments and strike west and north-west to have a glimpse at Cuddapah, Kurnool, Bellary and Anantapur districts. These districts known as " Rayalseema " are in the famine zone and are periodically liable to failure of rain and consequent shortage. Irrigation in Rayalseema is by the very nature of the case difficult. Rainfall with its consequential river and stream flow is the first requirement for a successful irrigation scheme and when rain fails in the locality we propose to benefit, we must look to some external source, for example, a river whose main catchment area is outside the districts liable to failure, for supply. Local schemes in Rayalseema must, generally speaking, be of doubtful utility. In addition to a deficient rainfall there is the difficulty of not knowing exactly how the heavy black-cotton soils very prevalent in Rayalseema will respond to systematic irrigation. The Kurnool-Cuddapah canal which flows through a black-cotton belt has not been successful though in years of deficient rainfall its water is eagerly sought for by the ryots for their crops. Problems connected with the Tungabhadra are now being closely studied and it is the earnest desire of Government to initiate this most important project at the earliest possible moment.

South from Nellore we come to Chingleput where there are no major irrigation schemes, but 50,000 acres are irrigated by tanks of which there are 600. The district is peculiarly suited to tank irrigation, rainfall is generally favourable and the topography of the district favours this method of irrigation.

In South Arcot district also there is a large number of tanks which irrigate 543,000 acres. In addition, advantage has been taken of the fact that the district is traversed by two fairly large rivers, the Ponnai and the Vellar. An anicut across the Ponnai at Tirukkoyilur diverts sufficient water for 30,000 acres. Regulators combined with road bridges have been built across the Vellar at

Toludur and Shatiatope, the former diverts water to Willingdon reservoir which irrigates 16,000 acres and the ayacut is still expanding, the latter diverts water through the Vellar Rajan channels and its branches to irrigate 40,500 acres between Cuddalore and Porto Novo. Coleroon water is diverted at the Lower Anicut to irrigate 110,000 acres in Chidambaram.

Deviating from the southerly course for a few moments we meet North Arcot, Salem and Coimbatore districts. The Palar river which rises in Mysore is the main feeder for North Arcot. Water is diverted through a series of canals and channels by the Palar anicut, fifteen miles from Vellore, to irrigate 83,000 acres. The district had many old tanks which have been retained and which now form an essential part of the system. Flow in the Palar is intermittent and in the old tanks the flood flow of the river is stored, which without tanks would be wasted over the anicut. The Poiney anicut in the same district irrigates 24,000 acres.

Salem district is not particularly favoured by nature. The largest irrigation scheme in it is Barur. An anicut across the Ponnaiar diverts water to the Barur reservoir which irrigates about 7,000 acres. The district depends mainly on tanks, many of which get a supply over and above that contributed by their own catchments through channels taking off from anicuts built across adjacent streams. Though Mettur reservoir is in the district it has not been possible owing to very unfavourable conditions to devise any scheme to benefit Salem from this source. The Cauvery channels in Namakkal taluk irrigate 7,000 acres of very rich and fertile lands.

Coimbatore district depends mainly on the Bhavani which irrigates at present a large area of paddy. There are in addition several tanks and the waters of the Chitrachavadi, Noyel and Amaravathi are also utilized to the greatest extent possible by means of anicuts.

Continuing the southerly route from South Arcot, Tanjore is reached. Irrigation of about 7.8 lakhs of acres has been practised in Tanjore for centuries and with the modern works recently built, the ayacut now exceeds 10 lakhs of acres. The Cauvery-Mettur Project completed in 1934 is intended to ensure supply to the old delta as well as to extend irrigation by 300,000 acres in Pattukottai. Tanjore is by nature a specially favoured district and everything has and is being done to increase its prosperity. The benefits of Mettur reservoir to landholders in Tanjore delta are manifold. The reservoir protects the Tanjore ryots from flood damage due to Cauvery floods in the south-west monsoon and prevents drainage congestion. It secures to the ryots the benefits of early supplies in June and ensures steady and regular flow throughout the irrigation season.

Trichinopoly district, like Tanjore, depends mainly on the Cauvery for its irrigation and prosperity. Many channels take off directly from the river to irrigate 135,000 acres of fertile valuable lands.

Madura benefits mainly from the Periyar project. A dam built across the Periyar river in Travancore holds up water in the Periyar lake and a tunnel, 5,700 feet long, conveys this water to the Vaigai valley and thence to Madura. 130,000 acres roughly are irrigated by the Periyar project. The difference that this scheme has made to the prosperity of Madura district is enormous.

Tinnevely district, which adjoins Madura, depends mainly on the Tambraparni river across which several anicuts have been built to irrigate about 75,000 acres. The irrigated portion of Tinnevely is noted for its fertility and the Tinnevely ryots for their industry.

In Tinnevely the Papanasam hydro-electric scheme including a dam 170 feet high on the Tambraparni is in progress. Though the reservoir is formed mainly for power, it will benefit irrigation.

Tank irrigation is of the greatest importance especially in our Presidency where 3,000,000 acres are irrigated under tanks. Similarly well irrigation is another most important branch of the science which is responsible for irrigation of about 1,500,000 acres. Attempts are being made to extend well irrigation by means of electric pumps in suitable areas.

The diagram on page 6 shows the total area irrigated (i) by productive and unproductive major systems, (ii) by minor works in charge of Public Works Department and Revenue and (iii) by wells, figures for which are available only from 1930.

Chapter II.

BRIEF DESCRIPTION OF IMPORTANT IRRIGATION AND NAVIGATION WORKS.

The Cauvery Delta system.—The Cauvery rises in Coorg and flows for a considerable distance over the Mysore plateau. It then drops into the plains of Madras at the Sivasamudram falls. The chief tributaries of the river are the Hemavathi, Lakshmanathirtha and Kabbini in Mysore and the Bhavani (rising on the Nilgiris) in Madras. The river benefits by the south-west and north-east monsoons and irrigates a large area in Mysore before it enters Madras. There are two big reservoirs on the river, the Krishna-rajsagara near Mysore and the Stanley reservoir near Salem. Electric power is developed at Sivasamudram and at Mettur. The Cauvery is 500 miles long and drains 31,000 square miles.

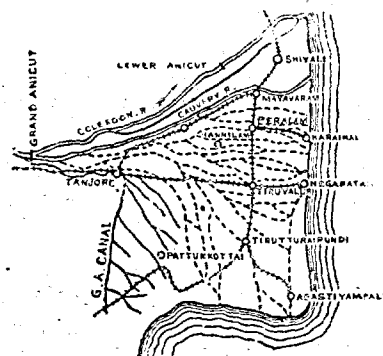
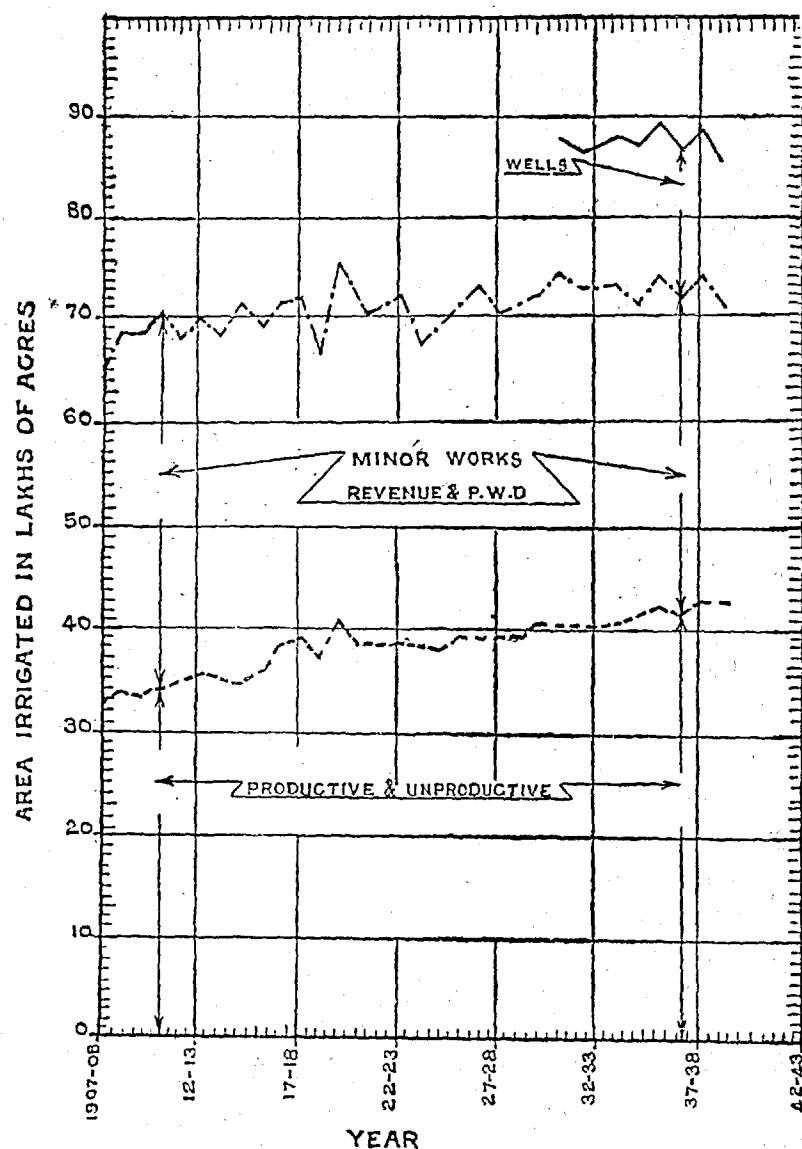


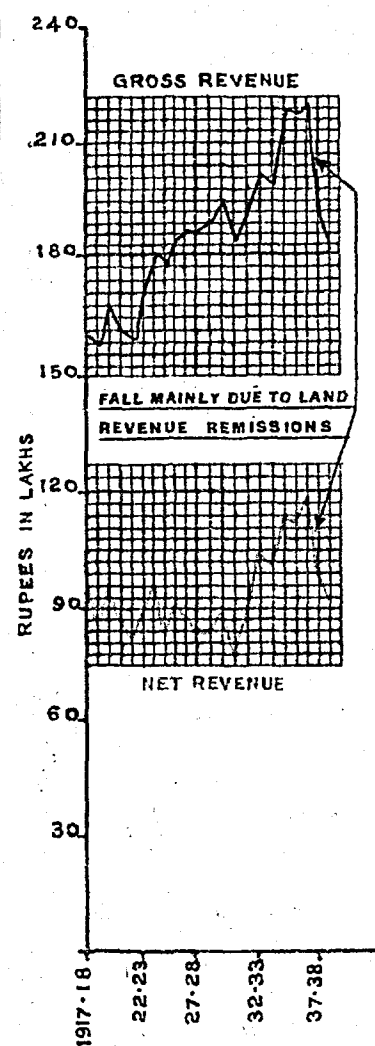
DIAGRAM SHOWING THE AREA IRRIGATED IN MADRAS



The Cauvery Delta system is of great antiquity dating back to the ancient Hindu kings of Tanjore. The delta begins at the head of the Srirangam Island where the river divides into two, the right arm called the Cauvery carrying irrigation supplies and the left arm, the Coleroon being the flood carrier. There is a barrage with lift shutters—the Upper Anicut—across the Coleroon to divert requisite supplies to the Cauvery over the Cauvery Dam.

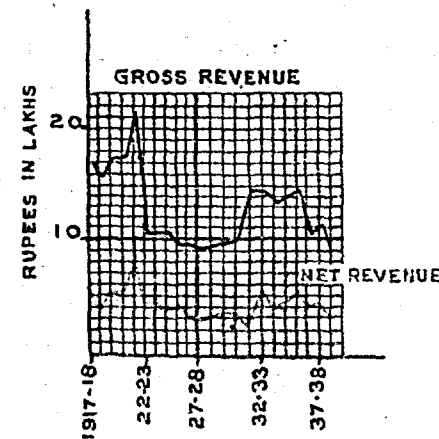
About 20 miles below the Cauvery Dam is the Grand Anicut, an ancient masonry anicut built across a by-pass from the Cauvery into the Coleroon, below the Srirangam Island. This anicut, intended to hold up and divert the normal flow of the Cauvery to

REVENUE



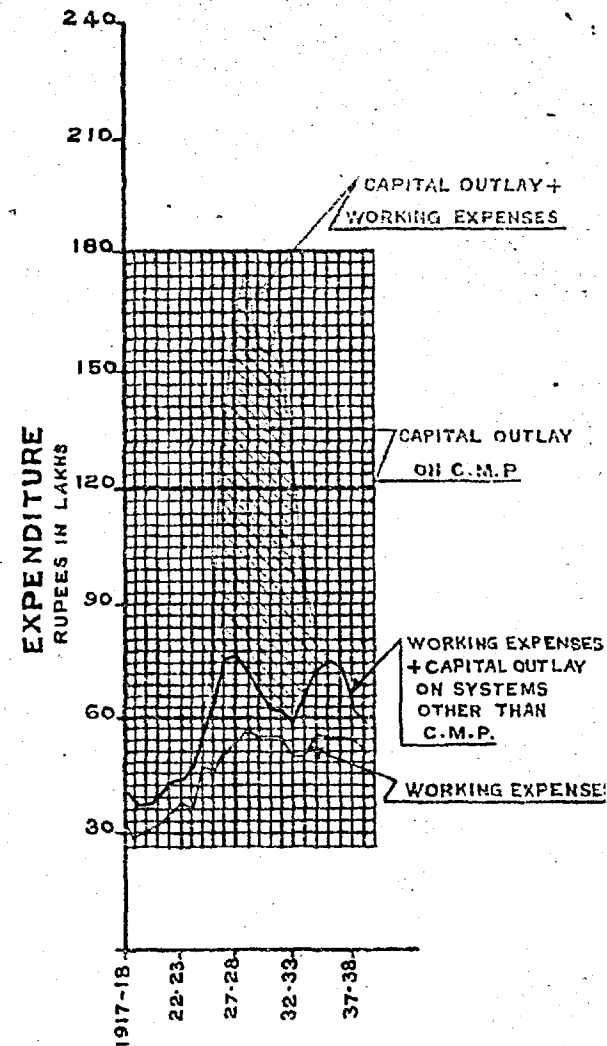
PRODUCTIVE

REVENUE

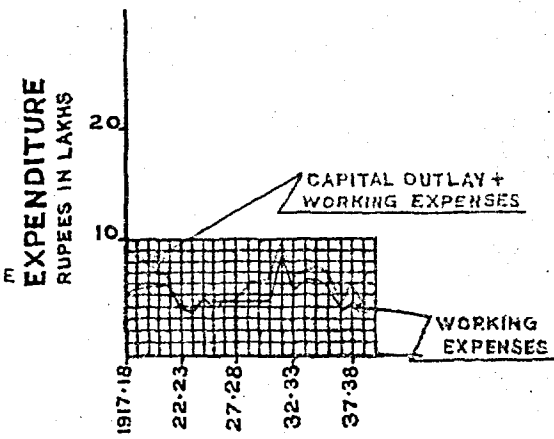


NOTE: LARGE VARIATIONS DUE TO TRANSFERS FROM UP TO P & VICE VERSA

Reg. No. 12/2 Copies 578



UN-PRODUCTIVE





NATTAR-VANJIAR REGULATORS, TANJORE DISTRICT.

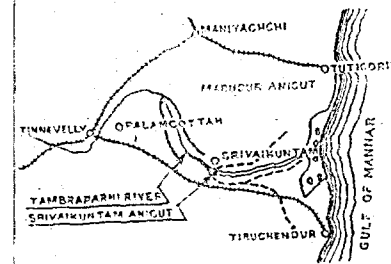
the rivers supplying the Tanjore delta, was converted into a regulator with lift shutters to permit effective disposal of surplus from the Cauvery and for passing supplies to the Lower Coleroon Anicut system.

At the Grand Anicut, the Cauvery branches into the Cauvery and the Venuar, which in turn throw off a number of branches and irrigate the fertile lands of the Tanjore delta, the well-known "granary of South India."

The delta is long, fertile and level, some 2,000 square miles in area with a sea board over a hundred miles long extending from Point Calimere towards the south to as far north as Chidambaram. It is served by a network of rivers and channels controlled by several regulators. Many of the smaller rivers of the delta function as irrigation and drainage channels.

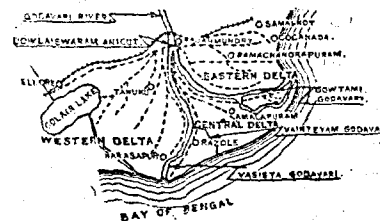
The irrigated area in the delta is 900,000 acres yielding crops valued at 5 crores of rupees. Over 82 lakhs have been spent on improvements since the system was taken over from the Tanjore Kings. The system yields a return of about 11 per cent on the capital outlay.

Srivaikuntam Anicut system.—The Srivaikuntam anicut is the last of the anicuts across the Tambraparni in Tinnevely district. Two channels take off at the anicut. On the left is the north main channel feeding a series of tanks and finally emptying into the Korumpallam tank, which supplies Tuticorin. On the right side the south main channel takes off and supplies the large Kadamba tank and a series of tanks below it. Irrigation under the system extends as far as Tiruchendur with its famous temple on the sea shore. The system irrigates



about 25,500 acres. The capital expenditure was about Rs. 18 lakhs and the return is 2.59 per cent on the outlay.

The Godavari Delta system.—The Godavari rises in the Western Ghats within 50 miles of the Arabian Sea and flows across the Peninsula for 900 miles before it falls into the Bay of Bengal. Its chief tributaries are the Manjira from Hyderabad and the Pranahita made up of three smaller streams from the Central Provinces, the Indravathi and the Sabari. Shortly after the Sabari joins it, the Godavari, now deep and narrow, winds its way through the spurs of the Eastern Ghats and for two miles it flows through a picturesque gorge clothed with luxuriant tropical vegetation. Some distance below,



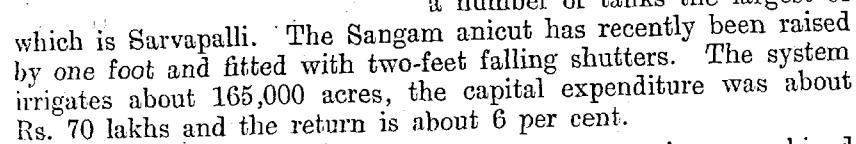
it leaves the last ranges of the Ghauts and enters the plains and flows onward as a broad and shallow river until some distance below

Prior to 1840, the district was frequently the scene of bad famines. In 1832-33 a terrible famine ravaged the district and the calamitous famine of 1840-41 followed after some more bad years. The recurring famines, the decreasing population and the dwindling revenue spurred the Government into action and Major Cotton (later Sir Arthur Cotton) who had just then completed great improvements in Tanjore, proposed the construction of an anicut across the Godavari at Dowlaishwaram with three canals, one for each of the three deltas. The works were sanctioned almost immediately and carried out expeditiously under his guidance. It is to the genius, keenness and intrepidity of Sir Arthur Cotton, that Madras owes these monumental works unprecedented both as to type and magnitude and which have proved a veritable gold mine.

The headworks of the canals consist of a head-sluice, an under-sluice and a head lock for each of the three deltas. The Eastern delta is about 450 square miles, the Central delta 500 square miles while the Western delta about 1,000 square miles in extent stretches down to the Colair lake.

The river and its branches are banked throughout to protect the deltas from the floods.

Pennar River Canals system.—The system consists of two



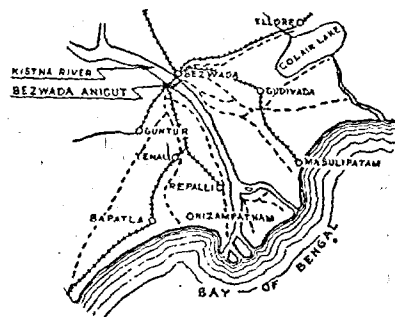
The Periyar system.—The main feature of the Periyar system is the diversion across the peninsula into the Bay of Bengal of

is of concrete with a masonry facing on the lake side about 170 feet high above the river-bed at the deepest point. A tunnel



5,700 feet long has been bored through the ridge on the east to carry the waters of the lake to the plains of Madura. The water flows into the Surulaiyar, a tributary of the Vaigai and after irrigating about 12,700 acres in the Surulaiyar valley, is again picked up at the Peranai regulator across the Vaigai about 80 miles downstream of the tunnel and diverted into the Periyar main canal about 35 miles long. The system irrigates 132,000 acres in Madura district. The capital expenditure on the system was about Rs. 108 lakhs and the return is about 4-6 per cent.

The Kistna Delta system.—The Kistna rises in the Western



Ghats near Mahabaleshwar some 4,000 feet above sea level and runs southwards through Bombay Presidency for some distance before it turns east into Hyderabad and receives the Bhima. Further down the Tungabhadra joins it and from here the river is for a considerable distance the boundary between Madras and Hyderabad. The last important tributary to join is the Musi.

The river after flowing through a narrow gorge in the Nallamalais meets the plains of the Coromandal coast studded with hills. The last of these hills is at Bezwada where the river flows between two of them hardly six furlongs apart. Stretching away on both sides of the river beyond Bezwada lie the two sections of the delta, the Eastern delta lying on the left side and the Western delta lying on the right. For forty miles below the river runs in a single stream. It then throws out the Puligedda branch. Between this and the main river lies Divi Island. The main river then flows for fifteen miles and splits into three branches before it empties into the sea. The river drains 97,000 square miles and its flood discharge is about a million cubic feet per second.

The history of the Kistna anicut follows almost the same course as that of the Godavari. Sir Arthur Cotton, who built the Godavari anicut, was again responsible for the anicut at Bezwada with its two canals, supplying the two sections of the delta on either bank of the river.

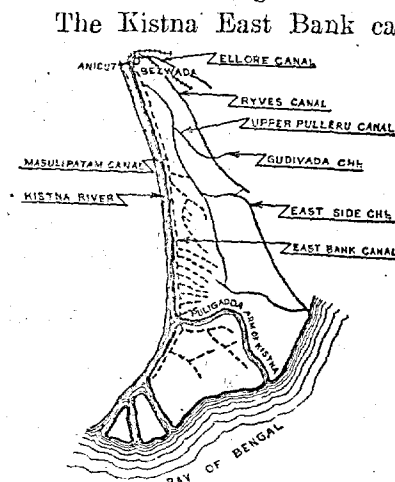
The anicut is about six furlongs in length and its crest was raised subsequently by one foot and fitted with three-foot falling shutters to improve the supplies to the delta. In 1925, even this was found insufficient and six-foot falling shutters were installed. The shutters are tripped by hydraulic pressure to pass floods and a steam plough is used to lift them up as the flood subsides, so as to maintain full supply in the canals.

The headworks of each canal consist of head and under-sluices and a head lock.

The Eastern delta has an area of about 1,160 square miles and stretches as far north as the Collair. The Western delta is about

150 square miles and extends to the south as far as Peddaganjam. The Kistna-Ellore canal in the Eastern delta connects the Godavari-Ellore canal in the north and the Commamur canal joins the Buckingham canal in the south. These contour canals and the interior canals form a network of irrigation and navigation canals affording means of irrigation and transport for the two deltas. Divi Island was irrigated by Diesel engines and pumps pumping from the river till 1935 when the Puligedda aqueduct was built to carry the Kistna East Bank canal across the river to Divi. This canal now irrigates the entire area in Divi Island.

The Kistna East Bank canal takes off at about 4/0 of the Masulipatam canal. The canal is navigable and runs alongside the river for a considerable distance before it crosses the Puligedda arm of the Kistna river by an aqueduct known as the Campbell aqueduct. The aqueduct is the longest reinforced concrete aqueduct bridge in India and carries a roadway 16 feet wide and a foot-path 4 feet wide. The aqueduct is submerged during high floods. The canal now irrigates about 61,000 acres in Kistna district. The capital expenditure on the canal was Rs. 57 lakhs and the return is about 5 per cent.

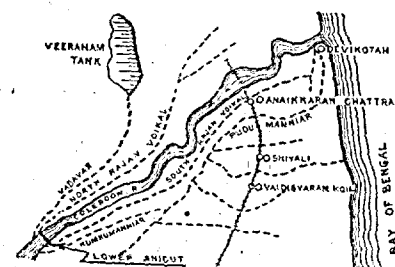


The river and its arms forming Divi Island are banked to protect the deltas from floods.

The canals are navigable for about 10 months in the year and carry annually cargo valued at about Rs. 51 crores, timber worth nearly Rs. 25 lakhs and about 22 lakhs of passengers. The system irrigates 84 lakhs of acres excluding Kistna East Bank canal. The capital expenditure was Rs. 22 crores and the return is 12 per cent.

Lower Coleroon Anicut system.—The Lower Anicut across the Coleroon was built about 1840 by Sir Arthur Cotton to ensure

supply to the areas originally irrigated by river channels. The old works were substantially improved in 1906. The weir was converted into a regulator fitted with lift shutters 33 feet span and 8 feet high. The Vadavar and North Rajan channels taking off on the left side irrigate lands in the Chidambaram taluk of South Arcot district. The Kum-



kumaniyar and South Rajan channels take off on the right and irrigate lands in Shiyali taluk in the Tanjore district. The Vadavar is a contour canal supplying the large Veeranah tank, which also

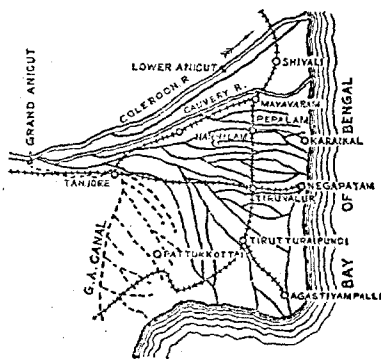
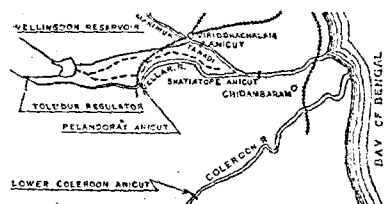
supplies the river Vellar, through a sluice at its northern end. The system irrigates about 111,000 acres. The capital expenditure was Rs. 30 lakhs, returning 5.93 per cent.

Willington reservoir.—Originally known as the Toludur project, it is a comparatively new work in South Arcot district opened in 1923. There is a bridge regulator fitted with lift shutters across the Vellar at Toludur from which a canal three and a half miles long takes off and feeds the reservoir which has a capacity of about 2,400 million cubic feet. From the reservoir a channel takes off and branches

into the high and low channels a short distance below the head to irrigate about 25,000 acres. Irrigation is not fully developed and the system now irrigates about 16,700 acres. Development is being hastened by providing new field channels. The capital expenditure on the system was about Rs. 26 lakhs and the return is 0.78 per cent.

Polavaram Island system.—The system consists of a canal taking off the Bank canal, Godavari Central delta, about half a mile above Annampalli lock. The canal crosses the Vriddha Gowtami by a masonry aqueduct and irrigates the Polavaram Island enclosed by the two branches of the Gowtami Godavari. The system irrigates about 13,000 acres in East Godavari district. The capital expenditure was about Rs. 17 lakhs and the return is 3.70 per cent.

Cauvery-Mettur system.—While the south-west monsoon on the hills is fairly copious and dependable, the north-east monsoon supplies are irregular. Caprices of this monsoon have frequently affected cultivation in Tanjore. Moreover, there is usually a break of about six weeks between the two monsoons. The chief aim of the Cauvery-Mettur system is to remedy this state of affairs by storing water in excess during floods and passing it down later when the natural flow in the river falls below requirements. It is also intended to irrigate 301,000 acres of new land chiefly in the Pattukkottai and Arantangi taluks of the Tanjore district.



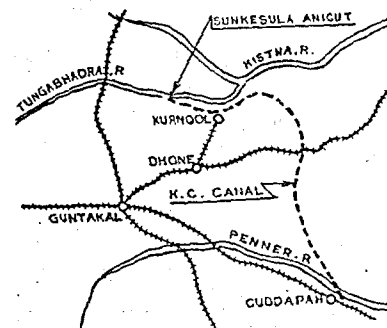
The system consists of a large reservoir at Mettur known as Stanley reservoir and a canal known as the Grand Anicut canal in Tanjore taking off above the Grand Anicut.

The Stanley reservoir is a lake 60 square miles in area, holding 3,500 million cubic feet of water when full. The lake is formed by a masonry dam, across the Cauvery, about a mile long and about 214 feet high at the deepest point. It is almost the biggest dam in the world and cost Rs. 4.8 crores. There are two sets of sluices in the dam, the high and low level sluices with sills at +670 and +720 while the F.R.L. is +790. River floods are surplussed over an escape at the left flank fitted with lift shutters 60 feet long and 20 feet high. The sluices and the surplus shutters are worked by electric power but it is possible to work any of them by hand, if required. Irrigation supplies for the new area under the reservoir are passed into the river below the dam and picked up at the Grand Anicut, about 120 miles downstream. The new canal called the Grand Anicut canal is a contour canal about 70 miles long and the capital cost was about Rs. 200 lakhs. It runs through Tanjore town, after passing which it throws out the large Kalianodai and Rajamadam branch canals. Down below there is a net work of branch channels and the system irrigates lands as far south as the Narasinga Cauvery.

The system is under development. It now irrigates about 1.4 lakhs of acres. The capital outlay is Rs. 6.6 crores and the present rate of return on capital is 1.36 per cent.

Kattalai system.—The South Bank canal was excavated to replace the four old korambu channels—Marudur Nattu voikal, Mahadanapuram channel, Nangam channel and Uyyakondan channel—taking off from the right bank of the Cauvery in Trichinopoly district, as irrigation under them was troublesome and uneconomical. Because the river-bed at head of the South Bank canal had been badly scoured by the 1924 floods a bed regulator was constructed there. Five furlongs below its head, the canal divides into the High Level channel and the South Bank channel. The system irrigates about 48,600 acres. The capital expenditure was about Rs. 40 lakhs and return is 0.79 per cent.

Kurnool-Cuddapah canal.—The Kurnool-Cuddapah canal takes off from the Tungabhadra from an anicut at Sunkesula about 15 miles upstream of Kurnool. The anicut and canal were constructed by "The Madras Irrigation and Canal Company, Limited" incorporated in England in 1858, with a guarantee of 5 per cent interest on outlay. The work was completed about 1870 and was handed over to Government on payment of Rs. 3.02 crores. The canal irrigates about 80,000 acres in Kurnool and Cuddapah districts and runs parallel to the river for about 50 miles, when it takes a turn southwards towards Cuddapah district and pierces the ridge



between Pennar and Kistna valleys through a cutting called the Mittakondala cutting. Below this point the Kali and Kundu rivers are used to carry the irrigation supplies, the canal serving mainly as a navigation canal. There are anicuts across the Kundu river at Santhajuttur and at Rajoli at which the canal supplies are again picked up and used for irrigation in the Kurnool-Cuddapah canal and its branches. At about mile 180, the canal crosses the Pennar at Adinimayapalli anicut and is continued on the right as far as Cuddapah town. The Kurnool-Cuddapah canal flows through black-cotton soil and irrigates mostly dry crops. These crops do not require canal supply in years of good and well distributed rainfall but in other years they require occasional irrigation. The canal is maintained at a heavy and recurring loss particularly because of its use in famine years. The canal was navigable throughout till 1934 when the reach below Lockinsula at mile 74/0 was closed to navigation, as there was little boat traffic, and costly replacement of a number of lock gates below Lockinsula was found necessary.

The capital expenditure on the canal was about Rs. 234 lakhs and the return is about 0.68 per cent. It is the most expensive project (excluding Cauvery-Mettur Project) in Madras.

Barur tank system.—The system consists of an anicut across the Ponnair at Nedungal, with a supply channel feeding the Barur tank in Salem district. The supply channel also feeds a number of small tanks on the left bank, while two old channels the Nedungal and Agaram channels feed small tanks on the right bank.

The work on the tail and the supply channel was commenced as a famine relief work in 1877 and subsequently revised to include the anicut, etc. The work was completed in 1899. The system irrigates an area of about 5,000 acres.

The capital expenditure was Rs. 4.5 lakhs and a return of 0.80 per cent is now obtained.

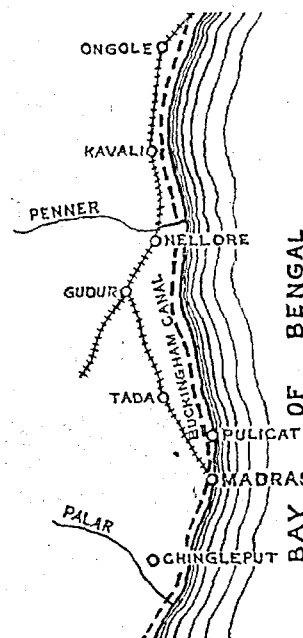
Nagavalli river system.—At Thottapalli in Vizagapatam district a regulator has been built across the Nagavalli river and a channel about 22 miles long has been dug. The channel irrigates a tract subject to precarious rainfall. The system irrigates about 27,000 acres. The capital expenditure was about Rs. 18 lakhs, returning about 3 per cent.

Bhavanasi tank.—This is a reservoir formed by an earthen dam about 2,500 feet long and 30 feet high across the Bhavanasi river in Guntur district with capacity of about 175 million cubic feet. The reservoir irrigates about 549 acres. The capital expenditure was Rs. 2.65 lakhs returning 1.30 per cent.

Mopad system.—The Mopad system consists of a reservoir with an earthen dam about 70 feet high at the deepest point and more than a mile long, built across the Manneru river in Nellore district. The reservoir has a capacity of about 2,100 million cubic feet and irrigates lands in a tract where famines are frequent.

The ayacut of the tank has been fixed at about 7,000 acres but actual irrigation is only about 5,000 acres. The capital expenditure in the system was about Rs. 23 lakhs and the return is 1.46 per cent.

The Buckingham canal.—The Buckingham canal is a canal used entirely for navigation. It runs through Madras parallel and close

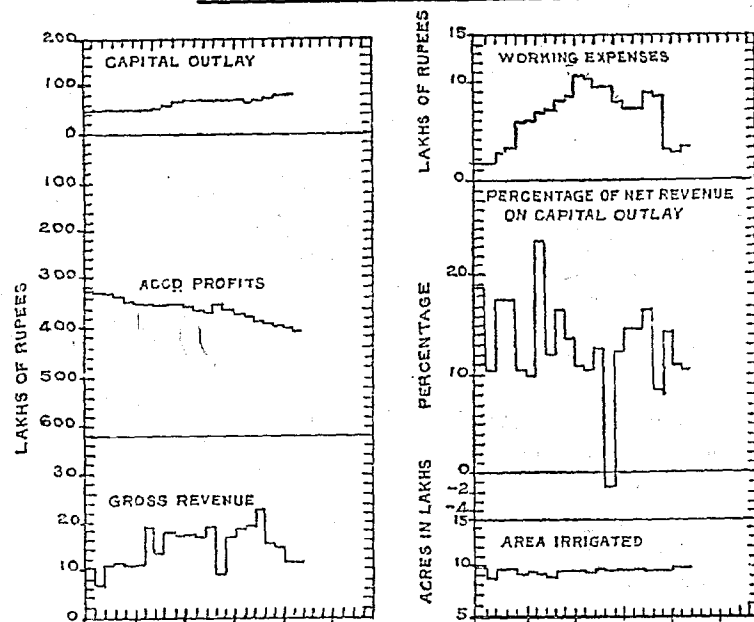


to the Coromandal coast, joining up a series of natural backwaters and connects all the coastal districts with Guntur and South Arcot at the ends. The canal is 196 miles long north of Madras and 62 miles south of Madras. At its northern end it connects with the Commamur canal of the Kistna delta which in turn is connected to the Godavari canals running as far north as Cocanada. Due to its alignment close to the coast the canal is difficult and costly to maintain. The navigability of the north canal depends on the open sea bars at Ennore and Pulicat. In a bad year water levels may drop and lead to considerable difficulty in navigation. The canal carries a large traffic in salt, shells, firewood, building materials and food-grains and is

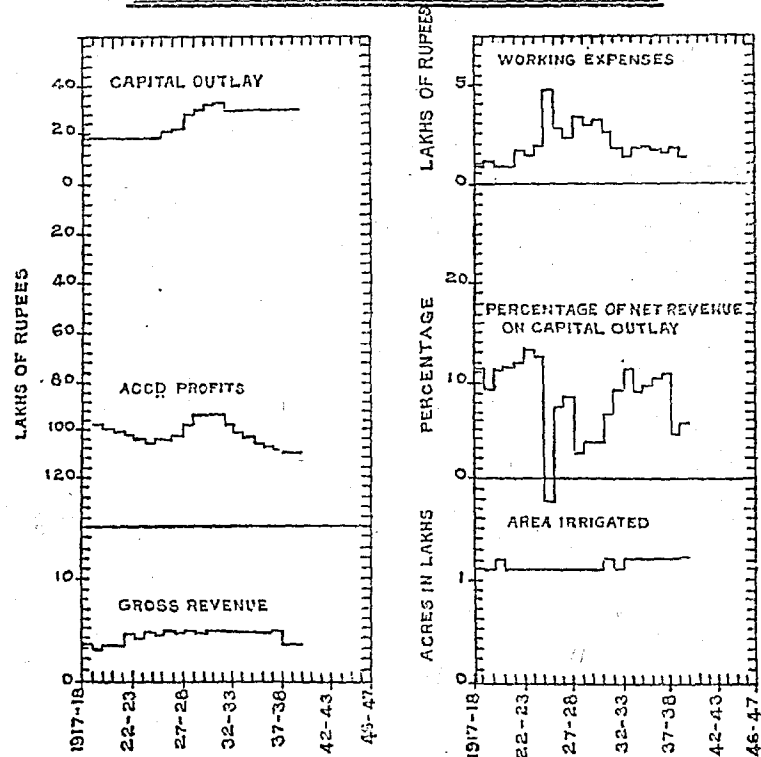
one of the main feeders to the Madras market. It carries cargo of an estimated value of about Rs. 134 lakhs and about 136,000 passengers every year. The capital expenditure on the canal was about Rs. 91 lakhs and the return is minus 0.45 per cent.

The diagrams on pages 16-22 show the financial record of important irrigation systems.

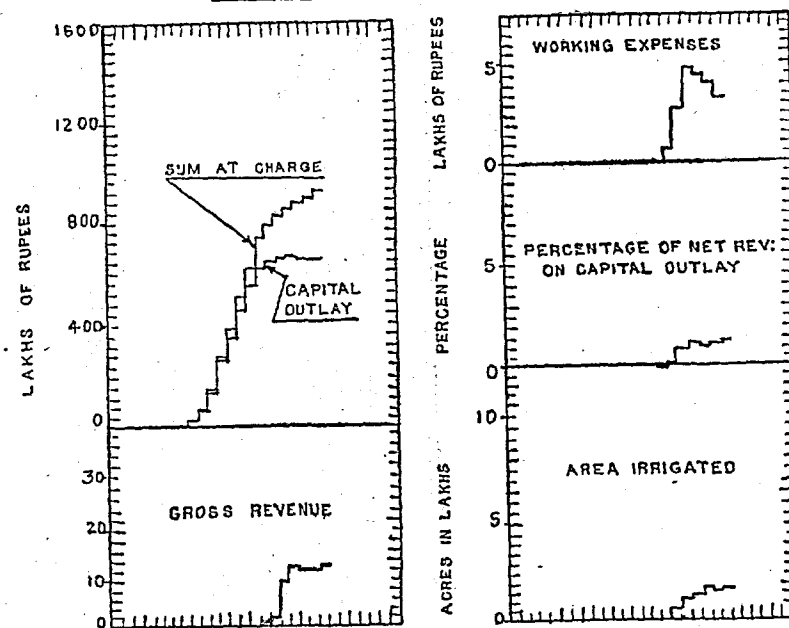
FINANCIAL RECORD CAUVERY DELTA SYSTEM



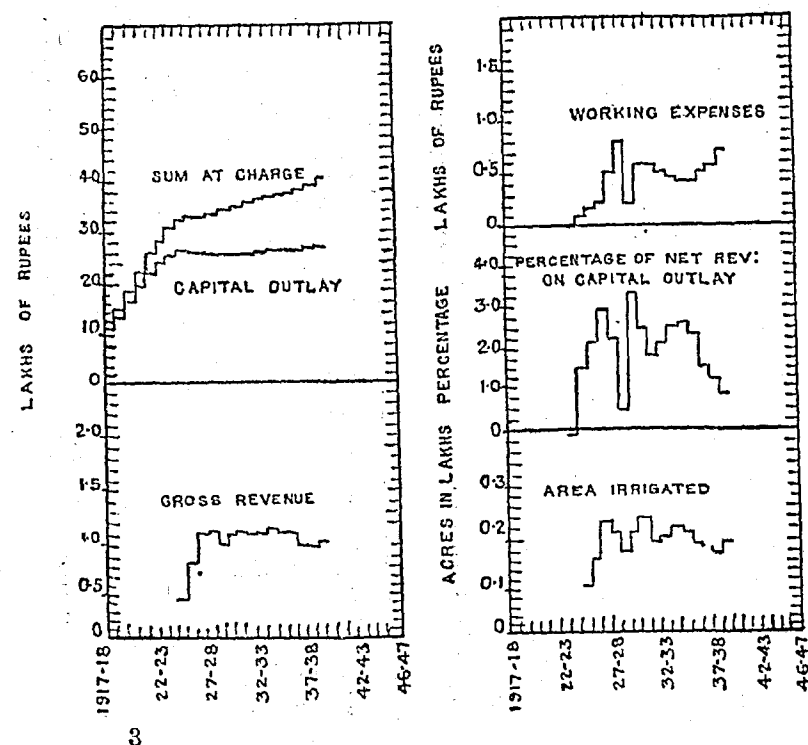
LOWER COLeroon ANICUT SYSTEM



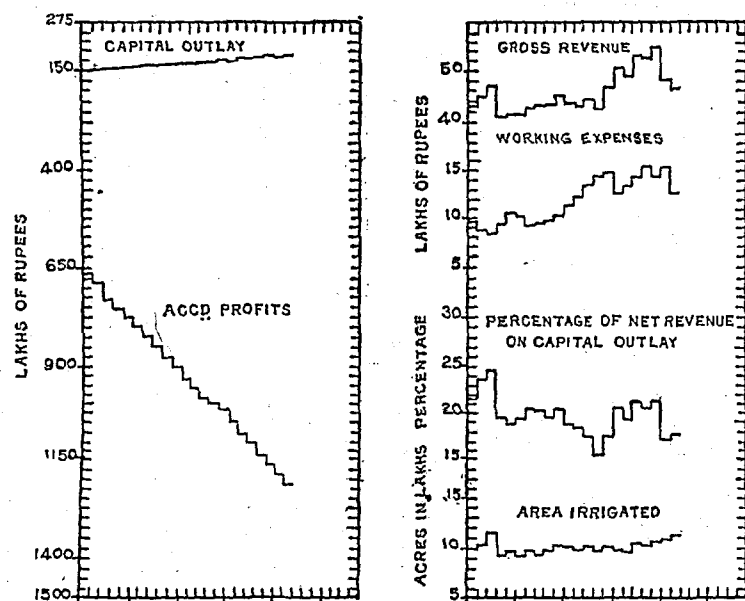
FINANCIAL RECORD CAUVERY METTUR PROJECT



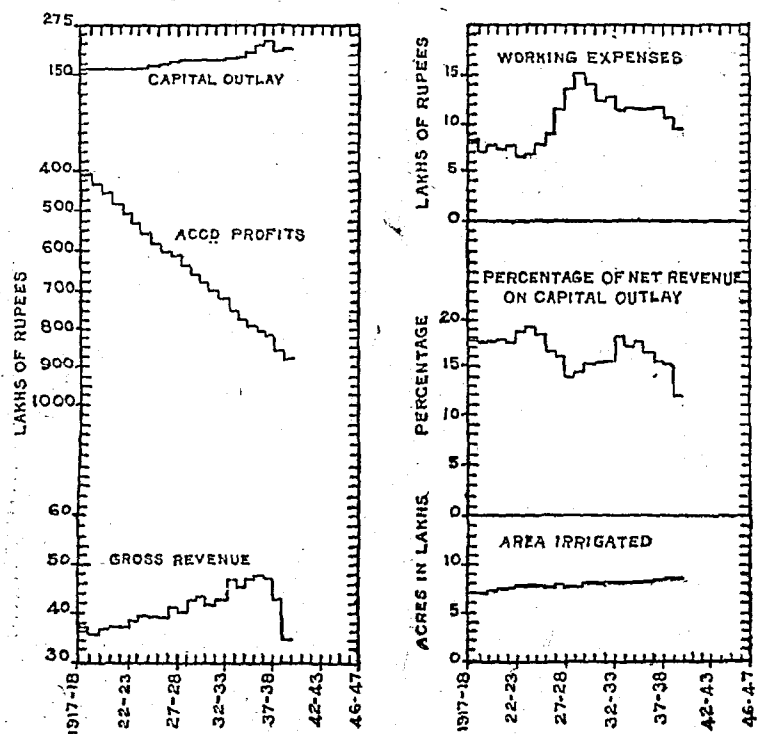
TOLUDUR PROJECT



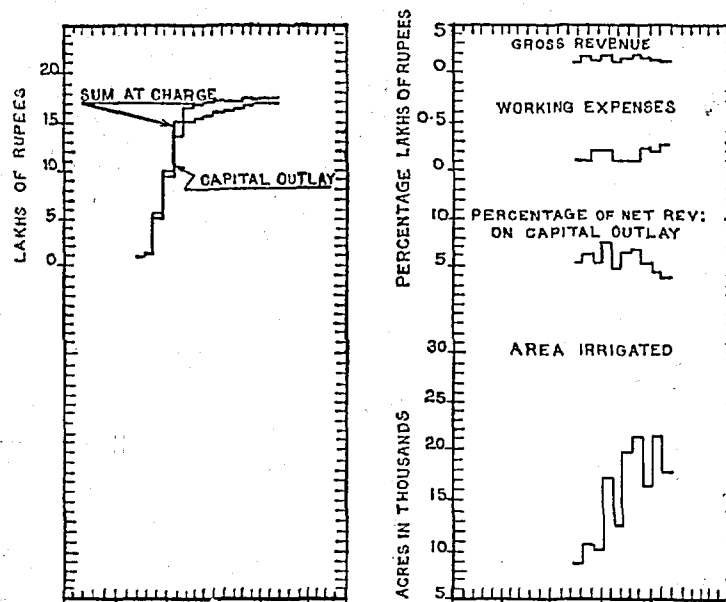
FINANCIAL RECORD GODAVARI DELTA SYSTEM



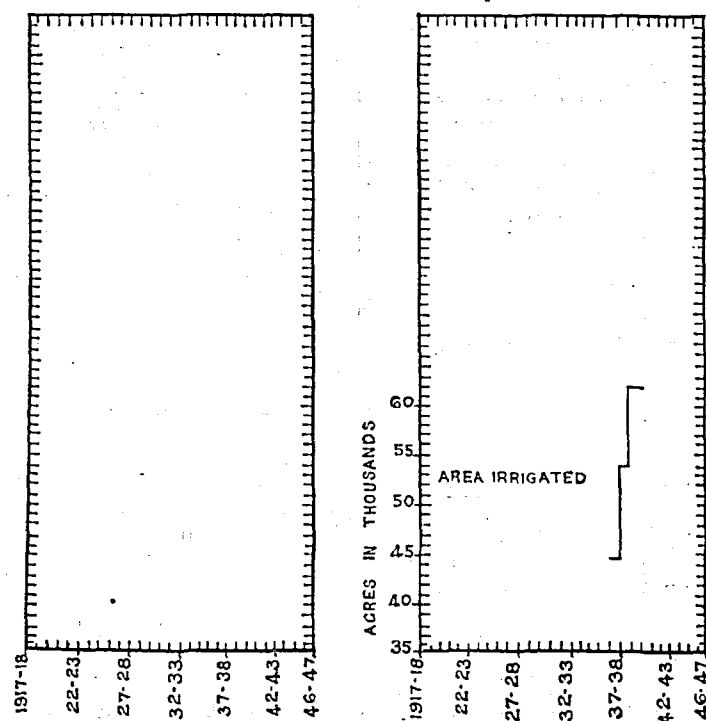
KISTNA DELTA SYSTEM



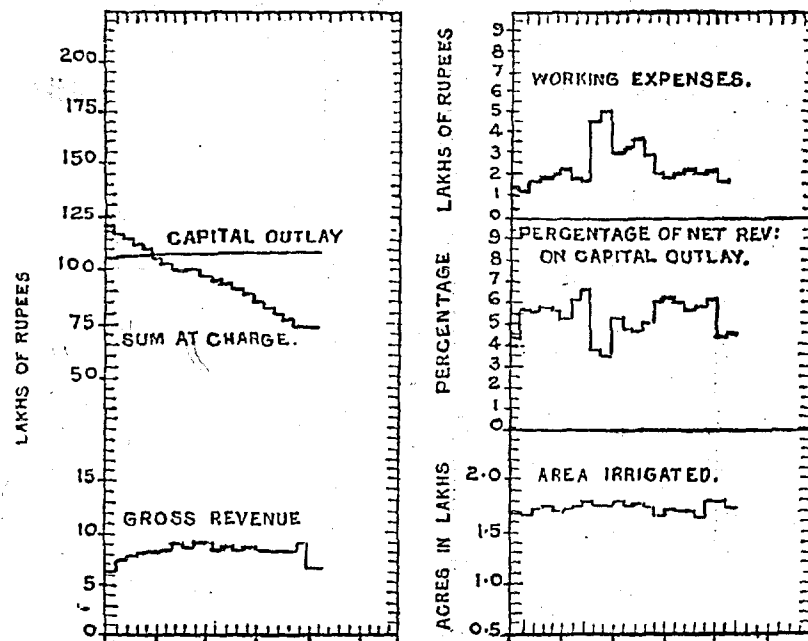
FINANCIAL RECORD POLAVARAM ISLAND



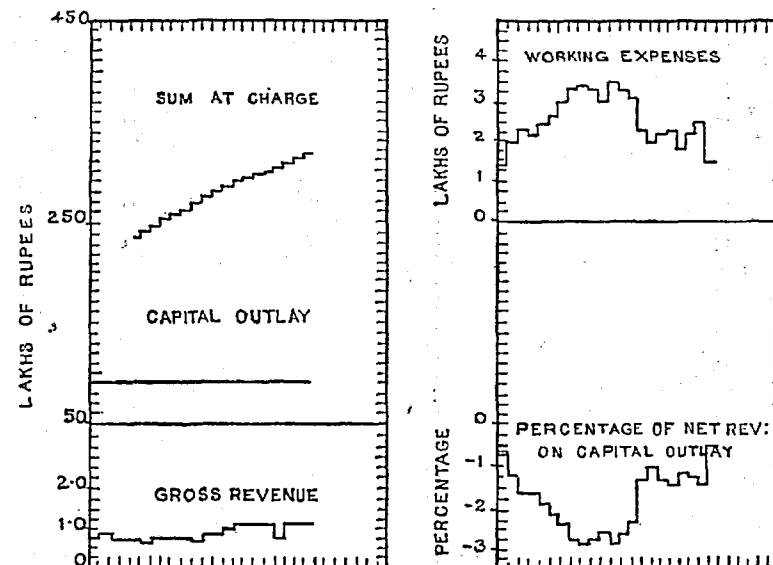
KISTNA EAST BANK CANAL



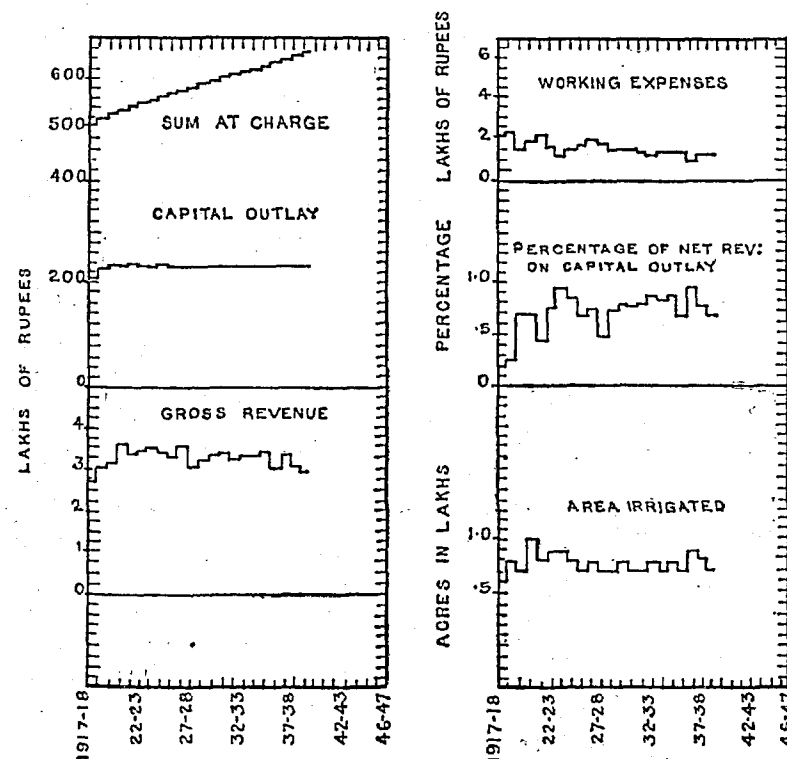
FINANCIAL RECORD PERIYAR SYSTEM



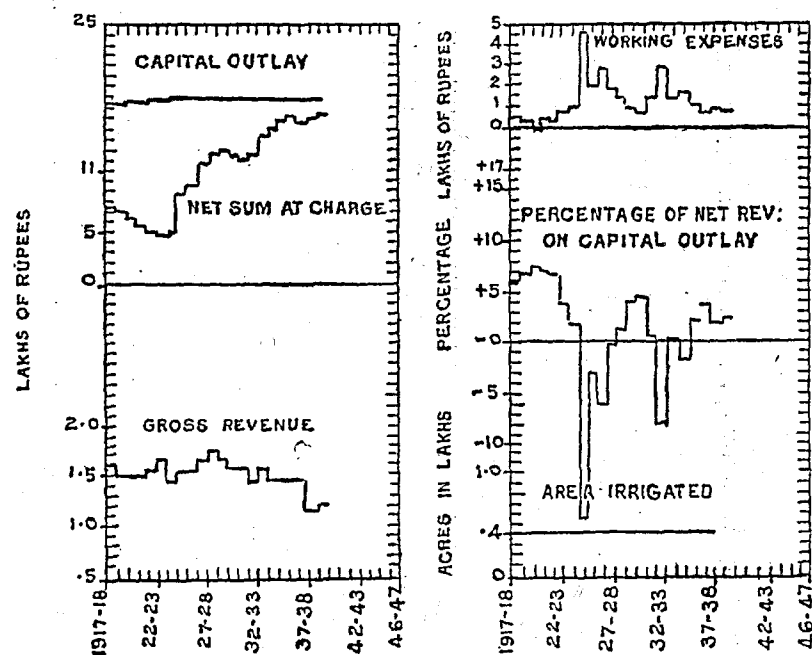
FINANCIAL RECORD BUCKINGHAM CANAL



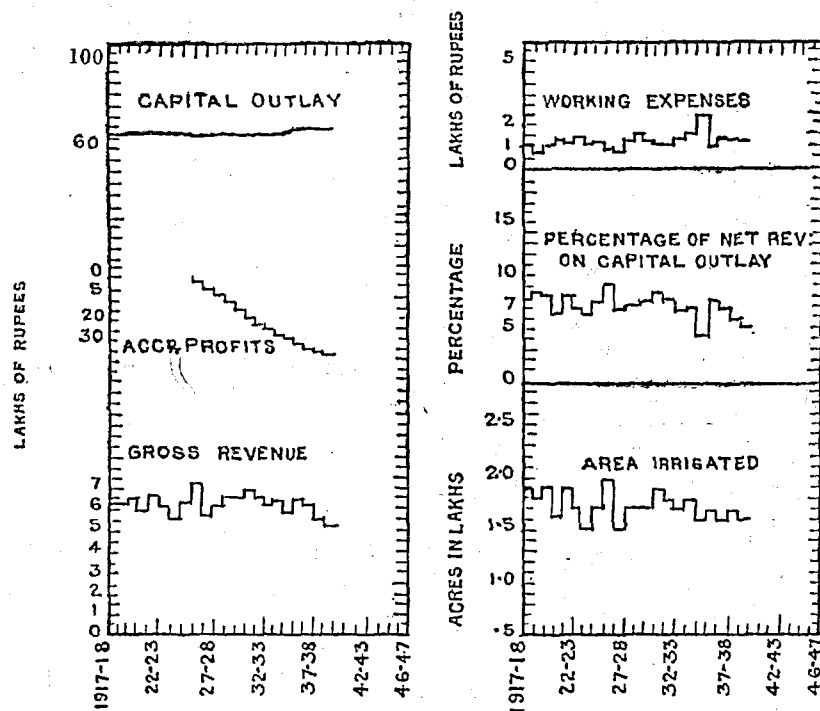
KURNOOL - CUDDAPAH CANAL



SRIVAIKUNTAM ANICUT SYSTEM



FINANCIAL RECORD PENNER RIVER CANAL SYSTEM



Chapter III.

SALIENT FEATURES OF THE ADMINISTRATION OF THE PUBLIC WORKS DEPARTMENT (IRRIGATION) FOR THE YEAR 1939.

The summary in this chapter is as usual intended to bring the general information up to the end of the calendar year 1939.

Cauvery Delta system.—The irrigation season of the year began with insufficient storage in the Mettur reservoir and this resulted in the postponement of the opening date to the 13th June. The south-west monsoon broke later than usual and the opening supply was curtailed. Supply was cut off by 10 per cent from the 15th to 31st August and again from the 15th September till October due to the level falling below the prescribed minimum. The shortage of supply was made good largely by heavy rains in the north-east monsoon. Abnormally heavy rains occurred from the 14th to 16th November in the Tanjore and Trichinopoly districts causing exceptionally high floods in the upper reaches resulting in much damage. About 76 breaches occurred in the Vennar division causing submersion of crops for about a week.

Godavari Delta system.—The year began as usual with good supplies in the river but they gradually diminished. Special patrolling was done to see that equitable distribution of the available supply was made. Though freshes in the river arrived very late, the first-crop season was good with every promise of a good harvest but a cyclone in October damaged considerably the standing crops. The Collair lake rose to a level of + 10.00 a record for the past thirty years and this resulted in the submersion of very large extents of lands in the deltas. The banks of Samalkota and Ellore canals and Biccavole and Tulyabhaga drains breached.

Standards for some of the drains in the Godavari delta were formulated by the Superintending Engineer and are under his examination. The execution of Kalipatnam, Vemuladevi and Losari projects in the Godavari Western delta was in progress. Field work and preparation of plans and estimates for the Anumunilanka project were completed.

Pennar River Canals system.—The Kanigiri reservoir, the main source of irrigation for the Sangam delta did not receive any supplies from the Pennar after 9th October 1938, due to the failure of the north-east monsoon of the previous year. During the year the reservoir became empty twice in August and September, but it surplussed in November. The new Pyderu channel was damaged by heavy rains in November.

Periyar system.—The lake was very low at the beginning of the irrigation season. Irrigation was therefore started late, i.e., by the middle of June. The level of the lake began to cause anxiety during the early part of October 1939, but this was fully relieved by heavy rains of the north-east monsoon and the level rose to F.R.L. on the 18th November. All tanks in the Periyar delta are full. Condition of crops is good.

Kistna Delta system.—Abnormal rains in October 1939 caused floods in the Budameru in the Kistna Eastern delta, overtopping the walls of the first two aqueducts of the Ellore canal. The Tam-mileru and other upland drains were also in high floods, submerging large areas. Extensive areas in the region of the Collair lake and also in some villages alongside the drains were also under submersion.

Owing to heavy rains in October in Kistna Western delta the upland drainage entering the Commamur canal breached the fourth and fifth reaches of the canal in more than seventy places. Immediate action was taken to form ring-bunds across the breaches so as to hold up water for both irrigation and navigation, pending complete repairs during closure. The floods submerged the low-lying wet lands and damaged many huts in the villages bordering the drains.

Several minor breaches were caused to the Kistna East Bank canal by the heavy rains of October and November 1939. There was, however, no damage either to irrigation works or to the standing crops in the area.

Vizagapatam district.—The rainfall in the district was poor and supply in the rivers was late and low, resulting in late cultivation. Supply in the channels of Chicacole Minor Rivers system was sufficient for irrigation. The Nagavalli main channel was opened for irrigation on the 18th June. The crops in the project area were good, while those in the area under the river channels failed due to insufficient rains.

Cauvery-Mettur system.—The reservoir was opened for irrigation on 12th June 1939 with a low level of 53'15". It fell to 40'05" on 5th July 1939. Thereafter the level went on increasing steadily but slowly and the F.R.L. of 120'00 was reached on 23rd October 1939, when surplussing commenced. The duration of surplussing in the year was the longest since 1934. On account of the heavy rains in November 1939, 33 breaches occurred in the first 12 miles of the Grand Anicut canal. The Agniar river overtopped and outflanked the aqueduct at R.D. 30/25 of the Grand Anicut canal and the last two vents and the abutment of the aqueduct were washed away and considerable damage was caused to the embankment and to the reach below where 40 breaches occurred. There was also much damage to tanks in this area. Breaches were temporarily closed and water allowed in Grand Anicut canal in the third week of December.

The Mettur Industries, Limited, were working satisfactorily. The Sandalwood factory has just started working.

Pundi Reservoir scheme.—Government have sanctioned the investigation of a scheme to construct a reservoir across the Korttalaiyar river near Pundi, Tiruvallur taluk, Chingleput district, for augmenting the water-supply to the City of Madras. The Corporation of Madras has agreed to bear the entire cost of the investigation. A special division for the detailed investigation of the scheme has also been sanctioned.

Tungabhadra project.—The project is under examination. Experiments on soil survey at the Siruguppa farm and determination of crops at the Bhagavadi demonstration farm were continued.

Bhavani projects.—The Upper Bhavani scheme was re-investigated to enable Government to decide whether the Lower or Upper Bhavani project should be selected. A report sent to Government is being considered by them.

Cauvery gauging.—In accordance with the rules of regulation of Krishnarajasagara, cross sections of the rivers at the three standard stations were taken during the year in June and October as in the previous year. The river Hemavathy was jointly gauged. The crest levels of anicuts and dimensions of the head and scouring sluices on the river were verified jointly. In connexion with the Mysore proposals for a reservoir on the Kabbini at Hulhalli, the working tables prepared were examined.

Buckingham canal.—An experiment was made by using a dredger to clear silt in the Pulicat reach of the canal between miles 24/0

and 25/7 to a bed level of 15'00. The experiment promises well, though it is still too early to say if dredgers can economically be substituted for manual clearance.

General.—The newly formed bund of Gundamadakala tank in Gundamadakala village, Udayagiri taluk, Nellore district, breached on 15th September 1939 on account of sudden rise of water in the tank due to heavy rain in the catchment. Steps to close the breach and to reform the bund have been taken. Due to the floods of November 1939 the Damal Anicut across the Gadilam river was outflanked and badly damaged. Proposals for extending the anicut are being framed.

Chapter IV.

PERSONNEL, CLASSIFICATION OF WORKS—FINANCIAL RESULTS.

F. M. Dowley, Esq., continued as Chief Engineer for Irrigation till 15th March 1939 when he went on leave and J. S. Westerdale, Esq., succeeded him. Sri Rao Bahadur A. R. Venkata Acharya continued as Deputy Chief Engineer, throughout the year.

2. Irrigation works in the Presidency are classified as shown below :—

(a) Works for which capital and revenue accounts are kept—

A. Irrigation works—

(i) Productive.

(ii) Unproductive.

B. Navigation, Embankment and Drainage Works—

(i) Productive.

(ii) Unproductive.

(b) Works for which capital and revenue accounts are not kept—

(i) Irrigation Works.

(ii) Navigation, Embankment and Drainage Works.

A work is classed productive or unproductive on the financial results of three consecutive years. There are no works in the Presidency under B. Navigation, Embankment and Drainage Works—Productive.

3. The total outlay on irrigation works during the year was Rs. 93,72,223 against Rs. 1,03,78,516 in 1937-38. The total revenue realized was Rs. 2,52,88,442 against Rs. 2,86,05,732 in the previous year. The area charged as irrigated was 7,296,157 acres against 7,565,066 acres in the previous year. The net revenue after deducting working expenses was Rs. 1,18,34,661 against Rs. 1,41,44,012 in the previous year. The expenditure figures include indirect charges. If direct charges alone are considered, the expenditure during the year was Rs. 88.24 lakhs against the budget allotment of Rs. 90.98 lakhs. The total area in the Presidency during 1938-39 under the chief food and industrial crops, both irrigated and dry, was 35,961,076 acres or 956,860 acres less than in the previous year. The area irrigated by Government irrigation works was 7,296,157 acres or 20.29 per cent of the total cropped area. This area was 268,909 acres less

than in 1937-38. The decrease was chiefly due to the failure of the north-east monsoon mostly in Tanjore, Trichinopoly and Salem districts.

4. *Financial results*—(i) *Productive works*.—The capital outlay during the year was Rs. 9,09,770 and to the end of the year Rs. 15,55,71,994. The area charged as irrigated was 4,124,062 acres and the estimated value of crops raised was Rs. 19,41,79,325. The net revenue derived was Rs. 92,91,357 representing a return of 5.97 per cent on the capital outlay. The accumulated profits to the end of the year amounted to Rs. 32.08 crores.

(ii) *Unproductive works*.—The capital outlay during the year was Rs. 36,999 and to the end of the year Rs. 3,86,85,996. The area charged as irrigated was 269,395 acres and the estimated value of crops raised was Rs. 99,87,885. The net revenue derived was Rs. 3,47,773 representing a return of .90 per cent on the capital outlay.

(iii) *Minor works for which capital and revenue accounts are not kept*—(a) *Irrigation works*.—There are about 34,400 works in this class against 34,346 in 1937-38. The outlay on them during the year was Rs. 33,21,384. The area charged as irrigated was 2,902,700 acres.

(b) *Navigation, etc., works*.—The outlay incurred was Rs. 5,78,655 and the revenue derived was Rs. 88,475.

5. *Irrigation works—Productive*.—(1) As in the previous year, there were 26 works in this class. The canals in the Godavari and the Kistna delta systems are used both for irrigation and navigation. The remaining works are for irrigation.

(2) The total length of main and branch canals at the end of the year was 3,937 miles. Of this length, 911-3/8 miles were for irrigation and navigation combined and the remainder for irrigation. The length of distributaries was 10,533-1/8 miles.

(3) The capital outlay (direct and indirect) during the year was Rs. 9,09,770 against Rs. 7,26,779 in the previous year. The bulk of the expenditure was incurred on the Kistna delta system and the Cauvery-Mettur Project. Details of works carried out are given in Chapter V.

(4) The total area charged as irrigated was 3,504,991 acres first crop and 619,071 acres second crop against 3,498,952 and 598,877 acres respectively, in 1937-38. The increase under both the crops occurred mainly in the Godavari delta system and the Cauvery-Mettur Project area.

(5) The gross working expenses of the year was Rs. 50,88,575 against Rs. 54,33,787 in the previous year.

(6) The gross revenue of the year was Rs. 1,81,62,320 against Rs. 1,91,49,499 in 1937-38. The fall in revenue was chiefly due to the grant of large remissions during the year. The maximum decrease occurred in the Godavari and Kistna delta systems and Penner river canals system.

(7) The net revenue derived and the net profits after deducting interest charges amounted to Rs. 92,91,357 and Rs. 26,23,544 against Rs. 98,32,798 and Rs. 34,19,226 respectively, in the previous year. The net profit represents a return of 1.69 per cent on the total capital outlay of Rs. 15,55,71,994 against 9.83 per cent 25 years ago, i.e., in 1913-14. The fall in profits was due chiefly to the large outlay on the Cauvery-Mettur Project which has only recently commenced to function and to the land revenue remissions referred to in the previous paragraph.

(8) The estimated value of irrigated crops raised during the year amounted to Rs. 19,41,79,325 against Rs. 20,73,02,968 in the previous year.

(9) The average revenue per acre amounted to Rs. 4.40 on the gross area and Rs. 5.18 on new irrigation. The working expenses per acre were Rs. 1.23 on the gross area and Rs. 1.56 on new irrigation.

(10) The remissions granted during the year amounted to Rs. 46,20,422 against Rs. 34,90,348 in the previous year. The areas affected were mainly in the Godavari and Kistna delta systems. Damage caused by a cyclone was responsible for large remissions during the year.

6. *Irrigation Works—Unproductive Works*.—(1) There were 28 works of this class as in the previous year. The Kurnool-Cuddapah canal is used for irrigation and navigation, navigation being confined to the first 75 miles. The other works are used only for irrigation.

(2) The capital outlay (direct and indirect) during the year was Rs. 36,999 against Rs. 1,96,938 in 1937-38. The bulk of the expenditure was on the Thippayapalem project.

(3) The total length of the main and branch canals at the end of the year was 831 miles of which 75 miles were for irrigation and navigation combined and the remainder only for irrigation. The length of distributaries was 677-3/8 miles.

(4) The area irrigated during the year was 269,395 acres against 306,000 in 1937-38. The decrease in area occurred mainly under the Palar Anicut system and Kurnool-Cuddapah canal.

(5) The gross working expenses amounted to Rs. 3,80,810 against Rs. 4,11,080 in the previous year.

(6) The gross revenue amounted to Rs. 9,56,079 against Rs. 11,05,350 in 1937-38.

(7) The net revenue due to improvements was Rs. 3,47,773 against Rs. 4,65,805 in the previous year. This represents a return of .90 per cent on the capital outlay of Rs. 3,86,85,996 to the end of the year. The net revenue fell short of interest charges by Rs. 13,51,246 of which Rs. 8,90,348 pertained to the Kurnool-Cuddapah canal. This deficit represents 3.49 per cent on the capital outlay.

(8) The estimated value of crops amounted to Rs. 99,87,881 against Rs. 1,24,84,239 in the previous year.

(9) The average revenue per acre amounted to Rs. 3.55 on the gross area and Rs. 4.59 on the new irrigation. The working expenses per acre were Rs. 1.41 on the gross area and Rs. 2.32 on new irrigation.

(10) The remissions granted during the year amounted to Rs. 2,26,736 against Rs. 1,34,729 in the previous year. The area affected was mainly under the Palar Anicut system and the Kurnool-Cuddapah canal.

7. *B. Navigation, Embankment and Drainage Works—Unproductive.*—There were two works of this class, viz., the Buckingham canal and the Vedaraniyam canal, the total length being 309½ miles. The gross receipts amounted to Rs. 1,08,040 and the charges to Rs. 1,56,368 against Rs. 1,06,251 and Rs. 2,59,034 respectively in the previous year. There was thus a loss of Rs. 48,328 on the working of these canals, against a loss of Rs. 1,52,783 in 1937-38. The value of goods carried during the year was Rs. 1,41,27,503.

8. *Navigation canals.*—Navigation was carried on as usual on the Dummagudem, Godavari, Kistna (Kistna East Bank canal being shown separately for account purposes), Kurnool-Cuddapah, Buckingham, West Coast and Vedaraniyam canals. As in the previous year navigation in the Kurnool-Cuddapah canal was limited to the first 75 miles. The total direct receipts amounted to Rs. 4.62 lakhs showing a decrease of Rs. 0.03 lakh over the figures of the previous year. The decrease was due mainly to smaller receipts from Government boats and steamers in Godavari canals and to fall in six weeks' licence fees in Godavari and Kistna canals.

9. *Works for which capital and revenue accounts are not kept—Irrigation works.*—The outlay incurred, the area irrigated and the revenue derived from the works of this class are compared below, with the figures of 1937-38 and the average of the previous triennium :—

	Outlay incurred. RS.	Area irrigated. ACS.	Gross revenue. RS.
During 1938-39	33,21,384	2,902,500	59,73,528
During 1937-38	34,83,874	3,161,237	81,60,678
Average of the triennium ending 1937-38	34,74,635	3,035,925	77,78,795

The decrease in gross revenue during the year was due to land revenue remissions.

10. *Tank Restoration Scheme works.*—The total area coming within the scope of Tank Restoration Scheme investigation is 102,500 square miles. Investigations were taken up in basins of a total area of 94,660 square miles and 87,630 square miles in these basins had been investigated by 1931 when the Tank Restoration divisions and subdivisions were abolished, as a measure of retrenchment. Since April 1931 up-to-date, the area investigated, by the



VELIYANGOD LOCK IN PONNANI-COCHIN CANAL.

regular staff, is 1,257 square miles. No investigation was done during the current year. The areas investigated up to 31st March 1931, 1938 and 1939 are 85.49 per cent, 86.72 per cent and 86.72 per cent respectively of the total area of 102,500 square miles.

In the area investigated, necessary works were completed in 85,524 square miles and works are in progress or yet to be started in the remaining area of 3,366 square miles.

The number and amount of estimates sanctioned up-to-date are shown in the statement in paragraph 6, section E-I of Chapter V. The total amount of estimates sanctioned from the commencement of Tank Restoration Scheme operations up to the end of the year was Rs. 203 lakhs nearly, against which the total expenditure incurred was Rs. 1,71,11,048 (exclusive of charges for establishment and tools and plant). The expenditure during the year amounted to Rs. 15,193.

11. *Works for which capital and revenue accounts are not kept.—Navigation, Embankment and Drainage works.*—The outlay incurred on and the revenue derived from the works of this class are compared below with the figures of the previous year and the average of the previous triennium :—

	Outlay incurred.	Revenue derived.
	RS.	RS.
During 1938-39	5,78,655	88,475
During 1937-38	8,81,069	83,954
Average of the triennium ending 1937-38.	8,02,542	83,716

12. *Projects under consideration.*—To relieve submersion, caused by floods in the Coringa river, alternative proposals (a) a vented cross-bund and lock at Tallarevu or (b) a lock and regulator at Yanam were considered. The former scheme was suggested to Government as a Part II scheme for 1939-40 and the question of contribution recoverable from the ryots, raised by Government was examined.

A smaller scheme to irrigate 7,500 acres in Coringa Island was evolved and is being considered by Government.

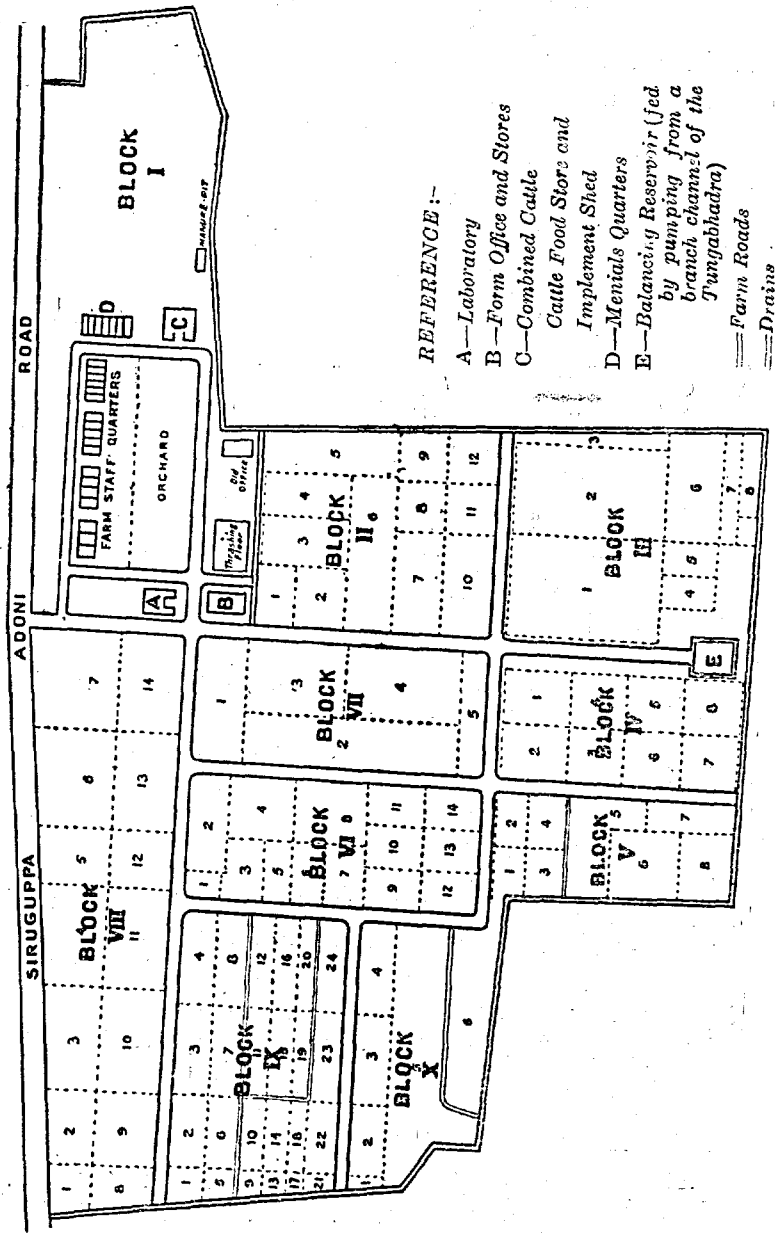
A preliminary report on the scheme to irrigate 3,750 acres of high level lands in the Godavari Central delta has been received.

Proposals to irrigate 4,000 acres and improve drainage facilities in Kanur, West Godavari district, and in the area lying between Nidadavole-Narsapur road by a channel from Vizeswaram were considered by Government.

The scheme to rebuild the Torrigedda outfall sluice to reduce submersion of crops by floods in the Godavari was considered by Government. The proposal will be brought forward again as a Part II Scheme for 1940-41.

Reports on the agricultural and financial aspects of the proposal to irrigate by pumping 3,750 acres at the head of the Godavari Western delta are awaited from the departments concerned.

PLAN OF THE AGRICULTURAL RESEARCH STATION SIRUGUPPA



The report on the localization of second-crop zones in the Godavari Eastern and Central deltas was submitted to Government and is under consideration.

A scheme for a storage reservoir on the Sabari, a tributary of the Godavari river, intended to stabilize supplies to the second crop in the Godavari delta and extend it by about 100,000 acres, which was examined in 1936 and abandoned, was re-examined at the instance of the Collector of West Godavari, and preliminary proposals were framed. The opinion of the Board of Revenue on the scheme is awaited.

A scheme to construct a reservoir on the Yerracalva in West Godavari district to serve as a flood moderator and to irrigate roughly 25,000 acres was considered. Field work and preparation of plans and estimates were completed by a special staff during the year. The opinion of the Revenue and Agricultural departments is awaited.

For Gundlakamma project the feasibility of taking a channel from the left side of the Gundlakamma river to irrigate 62,000 acres was examined by the local officers.

The final report on the results of gauging the Pillaperu to augment the supply to the Mopad system received from the local officers was examined. Investigation of the proposals to augment supply by diverting water from the Pillaperu was continued.

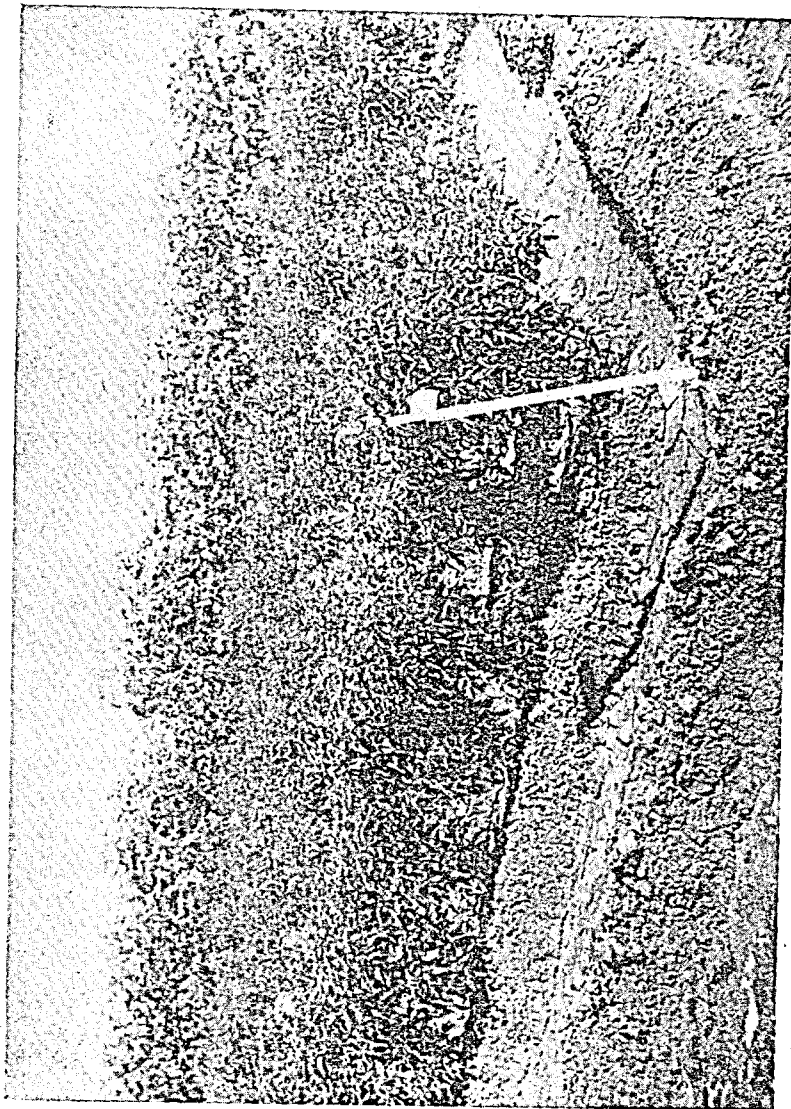
The report sent to Government through the Board of Revenue on the Rallapad scheme, Nellore district, was considered by the Board. The interested ryots suggested a combined Rallapad-Machavaram scheme and this was examined by the local officers.

To relieve submersion of lands bordering Collair lake, Kistna district, a scheme for widening the Upputeru or diverting the Budameru river into the Kistna or bunding the foreshore of the Collair lake was examined.

The sharing of the Tungabhadra waters was discussed at a joint conference of the Madras and Hyderabad Governments in November 1938. Provisional agreement was reached, the basis being a partial utilization of the available flow in the river. Experiments on important crops such as cotton, cholam, etc., were continued at the Experimental Farm, Siruguppa. Proposals for a demonstration farm were also considered.

The Papaghni (anicut) scheme was examined. Sanction of Government for the staff required to gauge the river was applied for.

Estimates for the scheme to excavate a spring channel from the right bank of the Penner to irrigate lands in Gangavaram and other villages, Cuddapah district, were revised.



CHILLIE CROP (BULK) AT SIRUGUPPA EXPERIMENTAL STATION.

The scheme for excavating a supply channel to Gotur Mallidevaraya cheruvu was investigated.

Gauging the Penner for the Penner-Kumudavathi project was continued and estimates for the project were considered by Government.

The Upper Bhavani scheme was re-investigated to enable Government to decide whether the Lower or the Upper Bhavani project should be selected. A proposal to utilize the surplus waters of the Siruvani river for irrigation in the Noyyal valley was deferred, pending a decision on the Lower Bhavani project. Gauge readings were continued. For the Uduthorahalla scheme gauge readings of the Uduthorahalla river in Kollegal taluk were continued. Alternative proposals for an anicut to irrigate 750 acres and a reservoir to irrigate 2,500 acres were considered. The Hebbahalla scheme in the same taluk for an anicut across the Hebbahalla river and a channel from it to augment supplies to Kottakarai and five other tanks was in progress.

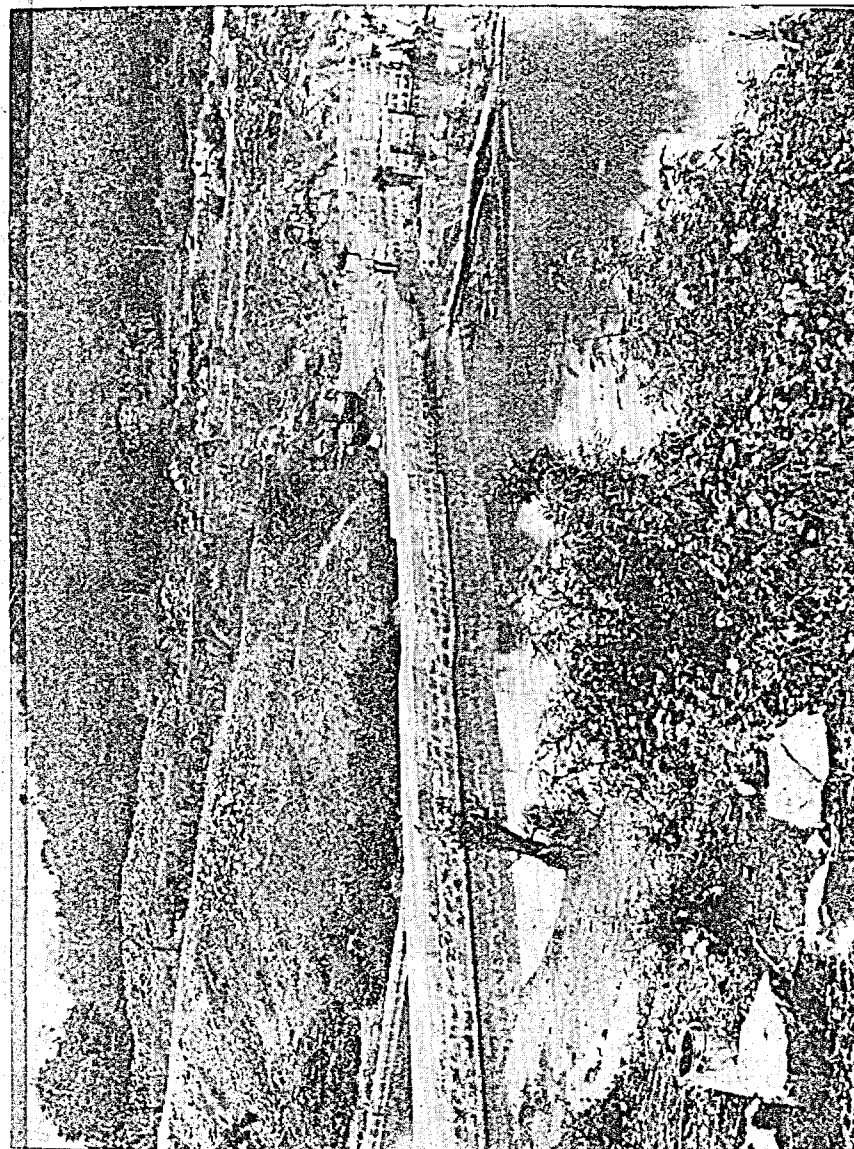
A special (Public Works Department and Revenue) staff was sanctioned in February 1937 to investigate and formulate proposals for making the navigation in the West Coast canals pay its way. The report of the special officers was under consideration. The proposed improvements are estimated to cost about Rs. 1.92 lakhs.

A scheme for a reservoir to be formed by constructing a dam across the Kortelliar river at Pundi in Chingleput district to function as a subsidiary reservoir to the Red Hills and Sholavaram tanks supplying water to the Madras City was partly investigated. The proposal is being considered by Government.

13. *Character of the season.*—The south-west monsoon was very active in the last week of June. The rainfall during June and July was bordering on or above normal and it was almost equally distributed. There was good rainfall in August and September in almost all districts. The monsoon was on the whole good throughout the Presidency.

The north-east monsoon which set in October was a general failure in the province and the parts adversely affected were the Central districts and the Carnatic. In November the rainfall was heavy in the districts of Vizagapatam, East and West Godavari and Kistna, while it was very little in other districts. A cyclone swept the Coromandel Coast, north of Madras, in November. This damaged standing crops in Godavari and Kistna delta systems, necessitating the grant of large remissions. In December the rainfall was below normal in nearly all the districts.

The average rainfall in the Presidency exclusive of the West Coast and the Nilgiris for the official year 1938-39 was 32.46 inches against 35.82 inches in the previous year and against the average of 33.89 inches for the five years ending 1937-38.



ANICUT ACROSS THE HEBBAHALLA.

14. *Floods.*—The highest flood in the Godavari river was 12.5 feet on 26th July 1938 over the crest of the Dowlaishwaram anicut. The record flood of 1891 was 17 feet over the anicut crest, which was then 0.75 foot lower. The maximum flood in the Kistna at Bezwada was 11.75 feet over the anicut on 27th September 1938 against a record flood of 23.50 feet in October 1903. The maximum flood level in the Tungabhadra at Sunkesula was 5.81 feet on the crest of the anicut on 30th September 1938, against the record of 10.40 feet on 31st October 1916. The maximum flood at the Adinimayapalli anicut on the Pennar was 6.30 feet on 24th September 1938; the record is 13.90 feet on 26th October 1874. The highest reading on the Cauvery dam was 7.70 feet on 5th August 1938 against the record of 14.65 feet on the 20th July 1924.

15. *Breaches and accidents.*—Floods of October 1938 in the Upper Yerracalva in West Godavari district damaged certain irrigation works. In Vizagapatam district the Sarada river and Gokivada Gedda were in floods in September and November 1938 and as a result certain river and channel banks breached. Due to the cyclone of November 1938 serious damage was caused to several irrigation works and to standing crops, etc., in the Godavari deltas. All damages to works were repaired during the year. There were two accidents during the year. A passenger boat overturned in the Ellore canal near Nawabpalem on 7th July 1938 resulting in several deaths. The District Board launch 'Dorothy' foundered in the Godavari river above Vizeswaram during the cyclone on the 26th November 1938, resulting in one death. Due to the cyclone of November 1938 serious damage was caused to several irrigation works and to standing crops, etc., in the Kistna Eastern delta also. All damages to works were repaired during the year and relief measures suggested by the local officers were considered. Due to heavy rains in the last week of September 1938, a small breach occurred in the Chepad channel and 40 feet of the middle apron of Adinimayapalli anicut was damaged. The breaches were repaired. Some tanks in Anantapur district were damaged by the heavy rains of August 1938 and repairs were promptly executed. Heavy rains in July and August 1938 breached certain tanks in Salem district. Repairs were commenced by the special staff sanctioned by Government. The damages to certain channels in Coimbatore and North Arcot divisions caused by the floods of November 1937 were repaired during the year. Measures to prevent a recurrence of the flooding which occurred in Madras City in November 1937 submitted in June 1938 are still under the consideration of Government. The damages caused to the irrigation works in the Chingleput district were all repaired and breaches closed. A breach occurred during the year at 23/3270 left bank of Grand Anicut canal. The breach was closed and the Vettikad bank repaired with an outlay of Rs. 2,045. On the night

of 27th January 1939 when the Willingdon Reservoir was 1.8 feet on the sill of head sluice, a slip 175 feet long occurred between C.S. Nos. 7-A+285 feet and 8+130 feet. Rectification of the slip is in progress. The subsidences noticed on the top of revetment above M.W.L. at the old slip site are also being rectified. Due to heavy rains on 31st October 1938 and 2nd November 1938 and consequent breaching of certain minor irrigation tanks, breaches to a small extent occurred in the lower reaches of Kanuadian and Nathiyunni channels and these were promptly closed.

16. *Irrigation Advisory Boards.*—There were no advisory boards in Vizagapatam, Cuddapah, Anantapur, Chingleput, Chittoor, North Arcot, South Arcot, Ramnad and Coimbatore districts, these districts being non-deltaic. Two advisory boards were newly formed during the year, one for the Nellore Anicut system and the other for the Sangam delta. The boards for the Godavari Western and Central deltas and the South Bank canal, Trichinopoly district, were reconstituted on the expiry of the term of the members of the old boards. Godavari and Kistna delta boards functioned satisfactorily. The Cauvery delta and Tambraparni boards did some useful work. The boards in Kurnool, Bellary, Trichinopoly and Salem districts generally did little or no work. The Cumbum Valley Advisory Board, Madura district, ceased to function after 1937.

17. *Irrigation panchayats.*—During the year under review, seventeen new panchayats were formed. Three panchayats were dissolved during the year and one did not function, leaving on the whole one hundred and eight panchayats working at the end of the year. All the panchayats except twenty functioned satisfactorily.

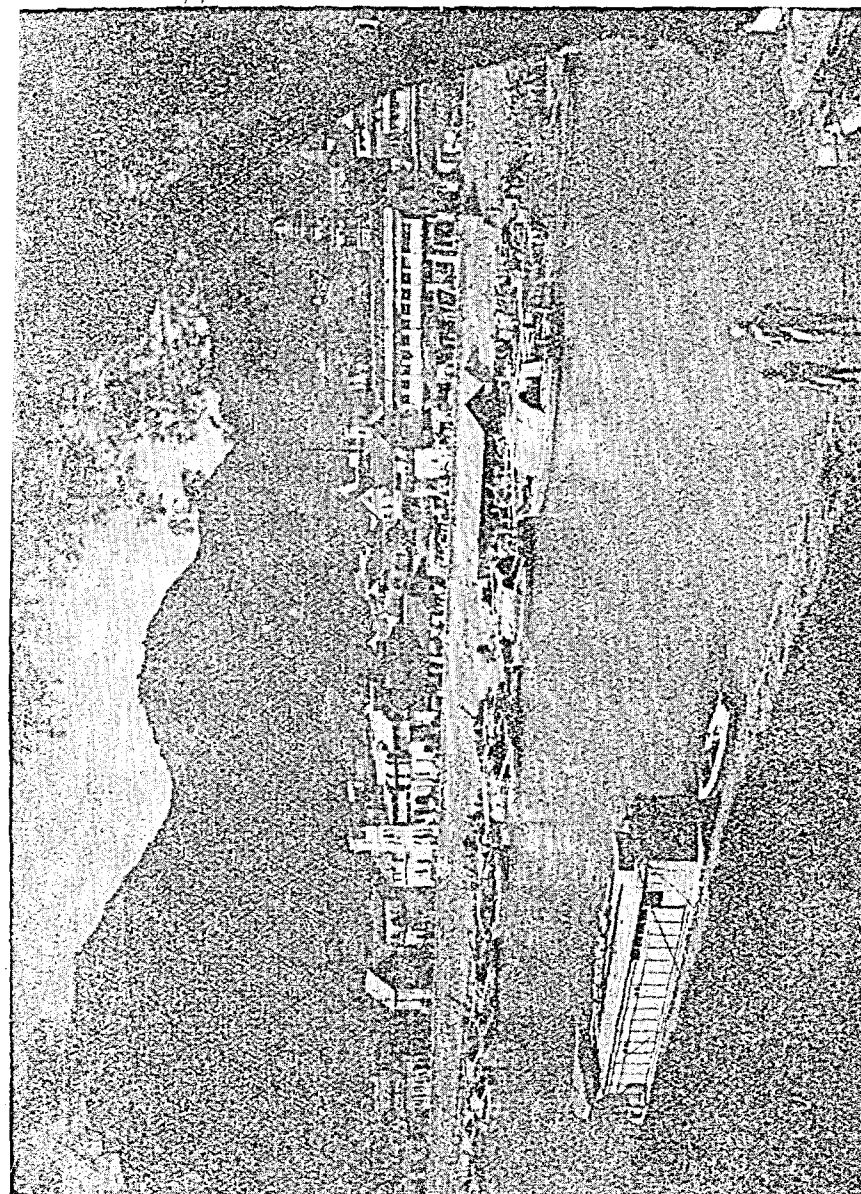
18. *General.*—The accelerated and widespread scheme of improvements to minor works was completed during the year and work to the value of Rs. 1.64 lakhs was done during the year. The total expenditure under the head was Rs. 49.61 lakhs, against Rs. 50 lakhs programmed.

Chapter V.

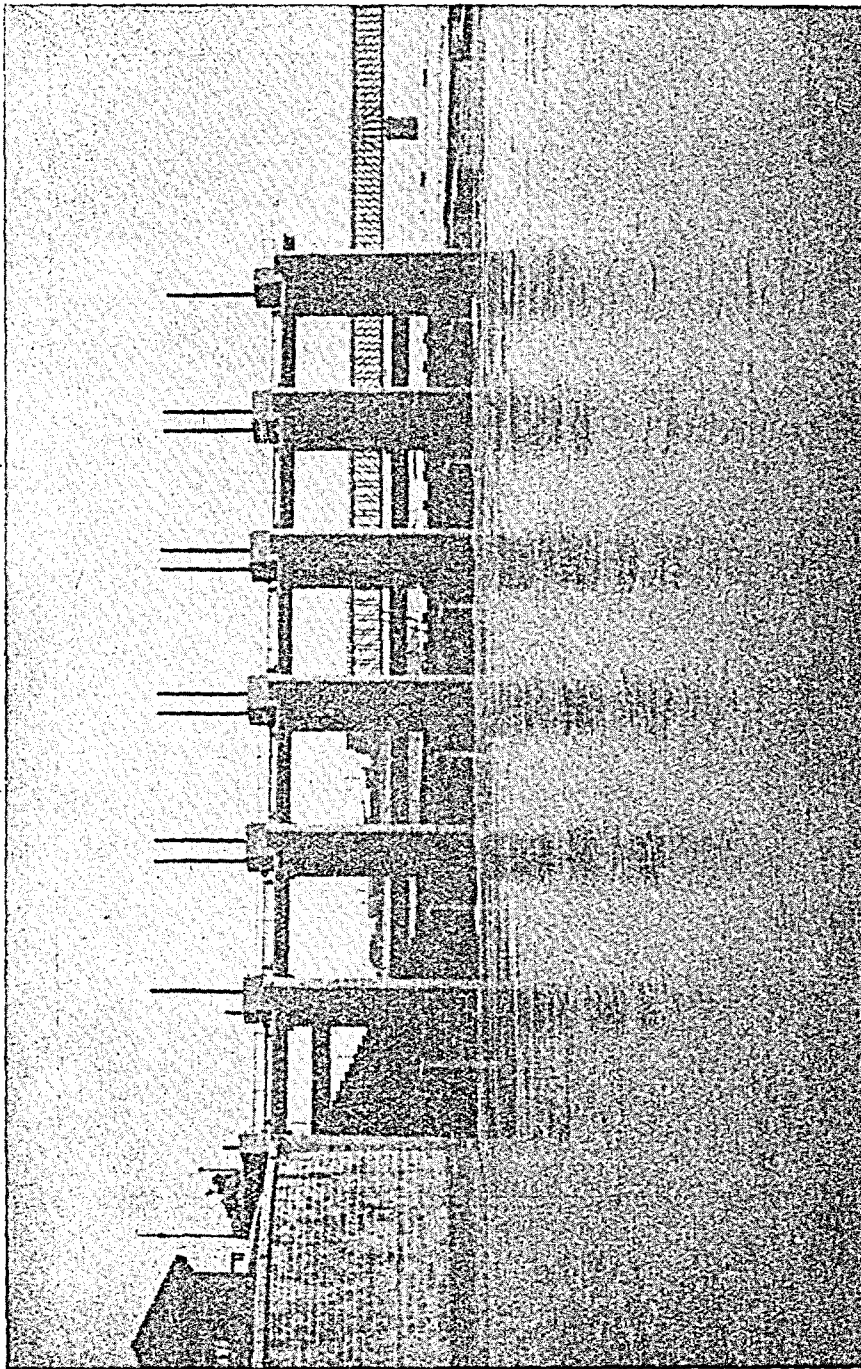
A. IMPORTANT WORKS CARRIED OUT DURING THE YEAR.

1. Works for which Capital and Revenue Accounts are kept.

Cauvery Delta System.—Remodelling the Odambogiar from 74/80 to the Kilavur dam (Estimate Rs. 1,10,517).—The expenditure during the year was Rs. 16,880 and to the end of the year Rs. 70,880. The work was under execution during the year.



BEZWADA WHARF.



IMPROVEMENTS TO BEZWADA UNDERSLUICES—FRONT VIEW.

General.—As a preliminary to remodelling all channels in the Cauvery delta, the piping of open heads and cuts in selected channels commenced last year, was continued during the year. Almost all the channels originally selected were piped. As many as twenty-one channels in the Vennar division have been taken up this year for piping and works in these channels are in progress.

Godavari Delta System.—(i) *Constructing a lock and regulator across the Cocanada canal below the head of the Samalkota canal (Estimate Rs. 54,000).*—Outlay during the year was Rs. 12,633 and to the end of the year Rs. 44,576. The work was finished.

(ii) *Providing irrigation facilities for Government waste lands in Vempa, Mutyalapalli and Losarigutlapadu ranges (Estimate Rs. 88,885—Work Slip Rs. 79,177).*—Outlay during the year was Rs. 8,000 and to end of the year Rs. 77,094.

(iii) *Excavating a channel to Losarigutlapadu village (Estimate Rs. 1,01,000—Work Slip Rs. 98,400).*—Outlay during the year was Rs. 17,355 and to the end of the year Rs. 71,275.

(iv) *Excavating a channel to the Vemuladevi village (Estimate Rs. 1,10,000).*—The expenditure during the year was Rs. 17,335 and to end of the year Rs. 84,187.

(v) *Remodelling Pallamkurru Nos. I and II channels of Bank canal (Estimate Rs. 31,700).*—Outlay during the year was Rupees 13,429 and to the end of the year Rs. 17,532.

Pennar River Canals System.—*Fitting falling shutters to the Sangam anicut (Estimate Rs. 1,36,500).*—The expenditure during the year was Rs. 25,463 and to the end of the year Rs. 67,081.

Kistna Delta System.—(i) *Kistna East Bank Canal (Estimate Rs. 28,49,320).*—The expenditure during the year was Rs. 51,448 and to the end of the year Rs. 26,33,947. Since the formal opening of the main canal in May 1937 irrigation under the canal has been gradually developing and the extended area irrigated to the end of the year under consideration was 17,200 acres.

(ii) *Campbell canal (Estimate Rs. 4,28,690).*—The expenditure during the year was nil and to the end of the year Rs. 3,71,223.

(iii) *Excavating the Peddakondur channel, Kistna Western delta (Estimate Rs. 47,286).*—The expenditure during the year was Rs. 2,526 and to end of the year Rs. 51,847.

(iv) *Excavating the Tumulur, Duvalur and Kollipara new channels (Estimate Rs. 54,071).*—The expenditure in the year was Rs. 2,172 and to the end of the year Rs. 41,230.

(v) *Excavating the Kistna West High Level channel (Estimate Rs. 7,11,431).*—Outlay during the year was Rs. 97,974 and to the end of the year Rs. 5,11,310.

(vi) *Excavating the Appapuram channel (Estimate Rupees 10,75,700).*—The expenditure in the year was Rs. 2,11,923 and to the end of the year Rs. 4,23,541.

(vii) *Excavating a straight cut to the Kollimerla drain (Estimate Rs. 54,700).*—Outlay during the year was Rs. 1,316 and to the end of the year Rs. 52,429.

Polavaram Island Project.—*Extending north and south embankments of Polavaram Island and constructing outfall sluices (Estimate Rs. 68,400).*—Outlay during the year was Rs. 1,091 and to the end of the year Rs. 56,818. The work was completed during the year.

Cauvery-Mettur Project.—*Constructing a stepped apron in rear of Ellis Saddle surplus bridge (Revised Estimate Rs. 2,40,000).*—The work was completed during the year. The expenditure during the year was Rs. 1,25,408 and to the end of the year Rs. 2,06,808 roughly.

High and Low Level sluices.—Some of the roller cages on these sluice vents were replaced by new ones.

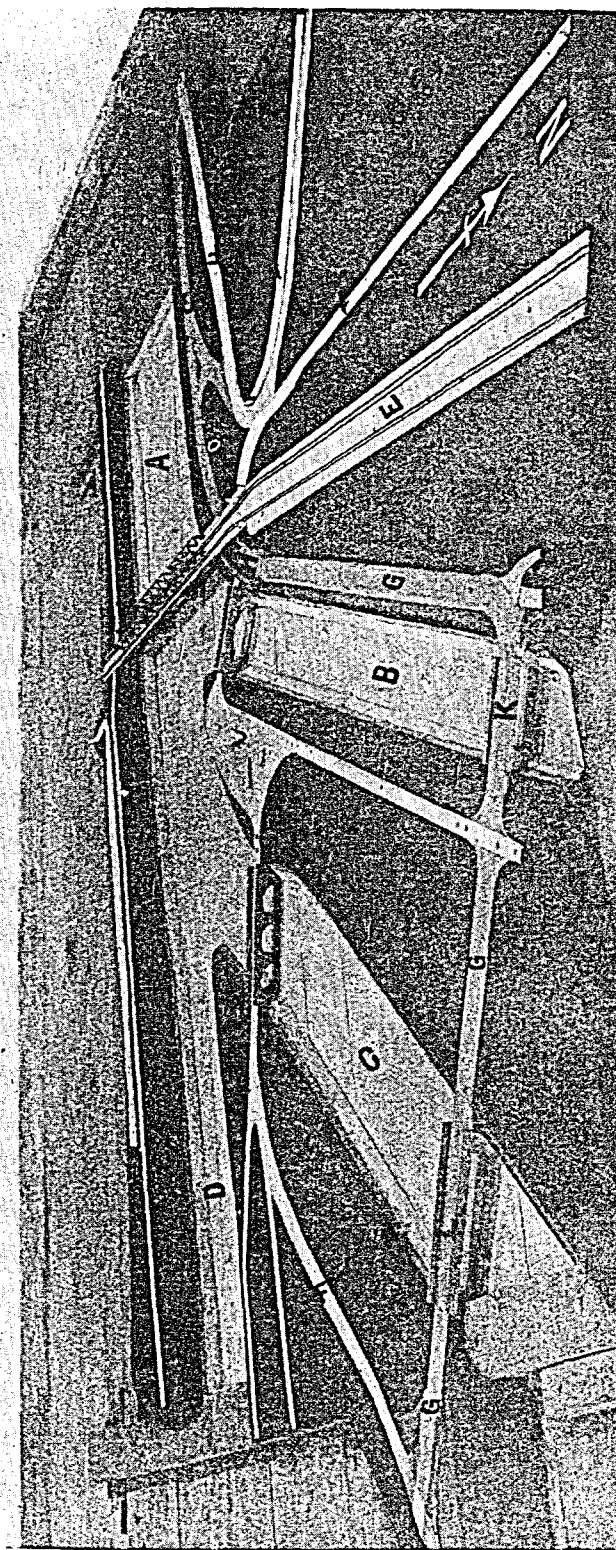
Maintenance works.—Reinforcements in the arches of the surplus bridge were exposed in some places and these portions were gunited.

Disposal of surplus materials.—The value of the special tools and plant sold during the year was Rs. 68,204. Certain Public Works Department buildings were transferred to the Police and Forest departments during the year.

Mettur Township Committee.—The Committee continued to administer the township. The Subdivisional Officer, Stanley Dam Subdivision, was appointed Executive Officer of the Committee. The maintenance of the water-supply, drainage and roads in the township area continued in charge of the Public Works Department. The initial accounting of expenditure in these cases was done by the Public Works Department as usual on behalf of the Committee.

Industrial development.—“The Mettur Industries, Limited,” expanded their business during the year and as a result a good number of labourers was employed in their mills. The Mettur Chemical and Industrial Corporation, Limited, had not yet begun operations and the activities of the South Indian Dye Works, Limited, begun last year were suspended during the year.

General.—There were two earth tremors at Mettur on 8th and 17th January 1939 but there were no damages.



A MODEL SHOWING PROPOSED SUB-WAY UNDER M. & S.M. RY. AND NEW BRIDGES OVER ELLORE AND RYVES' CANALS AT BEZVADA.

Reference.

- | | |
|-------------------------------|--|
| (A) Eastern Delta Main Canal. | (K) Proposed bridge on the Ellore Canal. |
| (B) Ellore Canal. | (L) Proposed bridge on the Ryves' Canal. |
| (C) Ryves' Canal. | |
| (D) Masulipatam Canal. | |
| (E) M. & S.M. Railway. | |
| (F) Existing Roads. | |
| (G) Proposed roads. | |
| (H) Proposed subway. | |

Kattalai Scheme—Kattalai High Level channel (*Estimate Rs. 15,91,000*).—Outlay was Rs. 27,183 during the year and Rs. 14,66,691 to the end of the year. The main canal works were completed. Excavation of distributaries is not yet finished. The construction of a divide wall in front of South Bank regulator at mile 0/5 with a view to prevent silt from entering the head reach of High Level channel was sanctioned and the work carried out during 1938 closure. The results are being watched.

Kattalai North Bank canal.—Outlay was minus Rs. 359 during the year and Rs. 3,41,136 to end of the year. The work was completed.

Extension of the Wyyacondan channel.—The scheme is to extend Wyyacondan channel to feed a number of tanks in Tanjore district. The estimate Rs. 45,000 was sanctioned in July 1937 and the work is in progress. Outlay was Rs. 5,852 during the year and Rs. 5,955 to end of the year.

Nagavalli River System—Excavating the Palavalasa distributary (*Work Slip Rs. 17,700*).—Outlay during the year was Rs. 2,218 and to the end of the year Rs. 17,599. The work was completed except a few minor items.

Thippayapalem Project—Constructing a storage reservoir at Rallavagu near Thippayapalem (*Estimate Rs. 4,67,600*).—The whole work was completed. Outlay during the year was Rs. 2,506 and to the end of the year Rs. 4,00,588.

Improvements to Basavannah channel.—The work was completed. The outlay during the year was Rs. 2,276 and the total expenditure up to date Rs. 4,68,837 against the sanctioned estimate of Rs. 5.93 lakhs.

Duvvaleru Project—Constructing an anicut across the Duvvaleru and excavating a supply channel to feed the Tripurantakam and other tanks, Kurnool district (*Estimate Rs. 1,14,000*).—Regular work was started in January 1939 and the work was in progress. The expenditure during the year was Rs. 4,871 and to the end of the year Rs. 6,864.

NAVIGATION WORKS.

Buckingham Canal.—As an experimental measure clearance of silt in the Chintamani-Coromandal reaches between miles 24-26 of the Buckingham canal by means of a Diesel-engined grab dredger obtained on loan from the Bezvada Circle was started and continued into the next year. The first report on the experiment was received and it shows that the dredger is likely to be very useful and not excessively expensive to operate.

II. Works for which Capital and Revenue Accounts are not kept.

Kistna Central Division—*Improvements to Yerracalva (Estimate Rs. 17,500).*—The work is a part contribution work and it was completed in 1937-38.

Kurnool Division—(1) *Restoring the Kothapalli spring channel (Estimate Rs. 22,800).*—The main work was completed. The expenditure during the year was Rs. 78 and to the end of the year Rs. 16,277.

(2) *Restoration of Peddasettipalle spring channel (Estimate Rs. 44,900).*—The main work including the excavation of the leading channel was completed. Plantation was in progress. Expenditure during the year was Rs. 1,326 and to the end of the year Rs. 30,021.

Trichinopoly Division—*Excavation of the Puduvoithalai High Level channel for the irrigation of sanded areas of Murungapettai block (Estimate Rs. 73,000).*—Outlay during the year was Rs. 2,051 and to the end of the year Rs. 66,904.

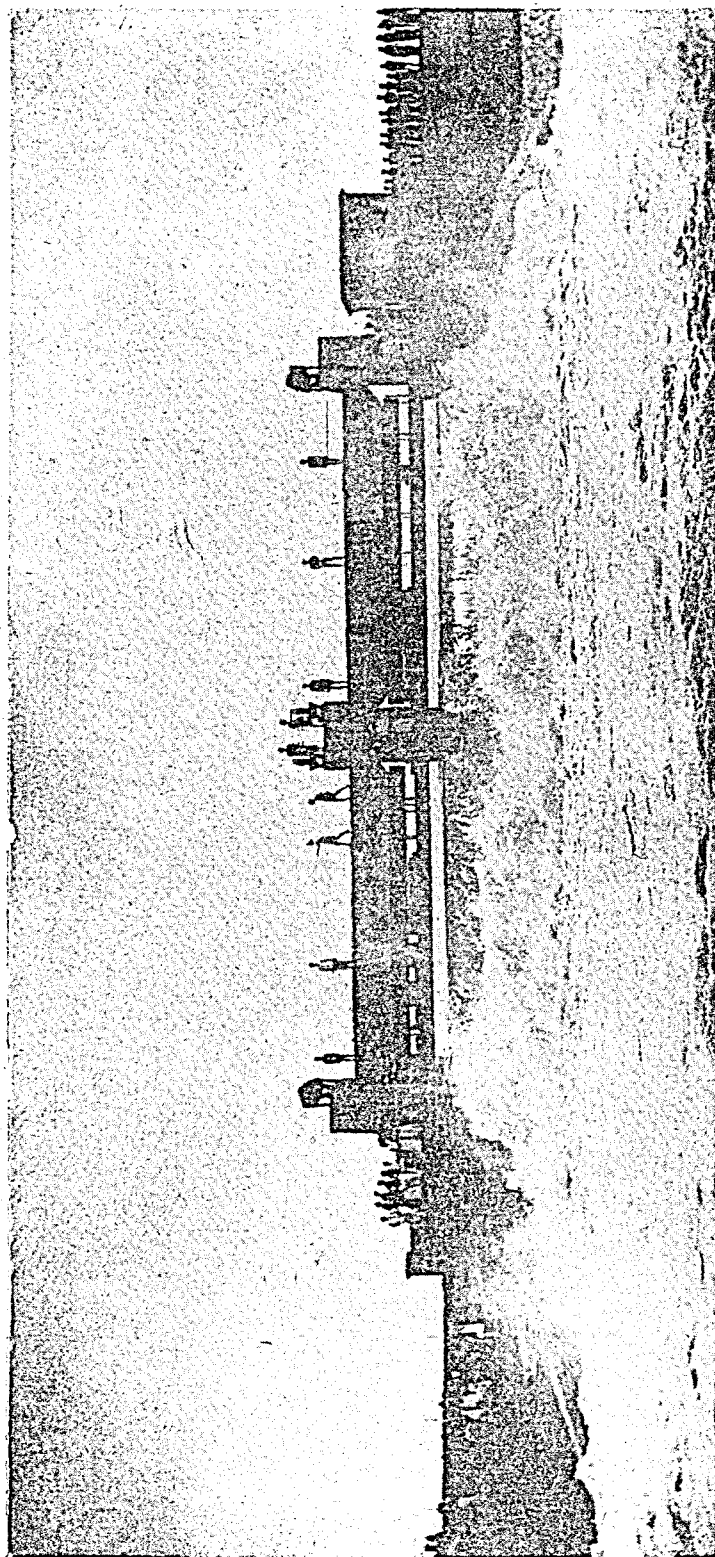
B. SEASON, RAINFALL AND SUPPLY.

Godavari Delta.—The first-crop season opened favourably. Transplantation was completed without difficulty. Freshes arrived early and the supply was sufficient for the first and second crop seasons. The cyclone of November 1938 damaged the standing crops to some extent. To compensate for the loss of first crop caused by the cyclone, water was supplied for an enhanced area of second crop.

Nagavalli River System.—There was sufficient supply in the Nagavalli main channel throughout the year.

Kistna Delta System.—The first freshes arrived on the 1st June 1938, i.e., much later than usual. Due to rains in the latter part of August and in September, the standing crops were very good though damaged later by a cyclone. The supply in the Kistna East Bank canal during the year was generally satisfactory. Rains during the transplantation season helped considerably. Transplantation was completed before the end of August 1938 without difficulty. In October 1938 rains failed. Turns had to be introduced to save the standing crops in Divi Island. The crops were good and yielded well.

Pennar River Canals System.—The supply for the first crop in the Sangam delta was satisfactory and the yield was good over the whole delta. Due to lack of timely rains in the Nellore delta much difficulty was experienced in supplying water to the late-sown first crop and to tail-end lands in the deltaic area. It was possible to raise second crop over only a small area in the delta owing to the failure of the north-east monsoon.



RED HILLS TANK
AUTOMATIC SHUTTERS—REAR VIEW

Cauvery Delta System.—The south-west monsoon was favourable. Full supplies were passed to the delta rivers from Mettur in July and August. The north-east monsoon was, however, very poor. The natural flow in the river during this monsoon was less than 70 per cent of the flow during 1918, the worst year previously on record. The natural flow in the river was supplemented from Mettur storage throughout the season, the addition from the reservoir being 100 per cent in October, 340 per cent in November and 300 per cent in December. In spite of the very low rainfall in the delta, the entire ayacut was successfully cultivated with the help of Mettur. Without Mettur the whole ayacut as well as the ayacut under the Cauvery channels in Trichinopoly and Salem districts would have failed completely. The experience of this year shows convincingly the beneficial effects of Mettur.

Grand Anicut Canal.—In addition to supplementing the supply to the delta, the ayacut under the Grand Anicut canal was also irrigated successfully, though the supplies in the latter part of the season had to be slightly restricted. The area brought under cultivation increased from about 114,000 acres in 1937-38 to about 116,000 acres in the year.

Madras Water-supply and Irrigation System.—Due to the failure of the 1938 north-east monsoon the Sholavaram and Red Hills tanks received scanty supplies and remained at very low levels. Consequently the supply to the city was seriously affected and had to be restricted in the hope of making the available supplies last out until the next monsoon. It is expected that the Pundi reservoir scheme, if executed, will meet the city supply requirements for many years to come.

Periyar System.—The south-west monsoon was very weak in the Periyar area. The lake level in December 1938 was considerably below the average level for the month. The kalam season was one of unprecedented scarcity. The majority of the tanks in the system dried up. The demand in spite of an unusually low lake was greater than in a normal year and turns had to be introduced to save the standing wet crops. The turn system mitigated the failure of irrigated crops. The area that failed was 1,403 acres, forming about 1 per cent on the total irrigated extent.

Tambraparni System.—The rainfall during the year was 34.49 inches against 28.83 inches in the previous year and the triennial average of 35.10 inches. The south-west monsoon was weak. The kar crop was, however, generally good. Due to rains in the Tambraparni river basin the river was in floods during October and November 1938 and all the tanks fed by the river channels received good supply with the result that the pishanam season was generally good.

C. CLOSURE OF CANALS.

The following table shows the dates of closure and reopening canals in the Godavari and Kistna deltas.

Godavari Delta.

Canals.	Date of closure.	Date of reopening.
Eastern delta canals	1st May 1938	1st June 1938.
Central delta canals	15th April 1938	15th May 1938.
Western delta canals	1st May 1938	1st June 1938.
Dummagudem canal	15th April 1938	15th June 1938.

Kistna Delta.

Canals.	Date of reopening.	Date of closure.
Kistna Eastern delta—		
Main canal	15th May 1938	1st April 1939.
Bandar canal	Do.	Do.
Ryves canal	Do.	1st March 1939.
Ellore canal	1st June 1938	1st April 1939.
Kistna Western delta—		
All canals	1st June 1938	15th March 1939.

D. INDUSTRIAL CROPS.

The area under sugarcane in the various systems for which capital and revenue accounts are kept during the year was 18,88 acres (chiefly in the Godavari deltas and Bellary and Kistna districts) against 21,791 acres in the previous year. In addition to the sugarcane area already localized in the Kistna Eastern delta, 3,700 acre of dry lands were opened to cane cultivation. The water required for the crop will be pumped from Bandar and Pulleru canals. The area under cane is increasing in the delta due to the Sugar Factory at Vuyyur. The area under indigo cultivation was 2,474 acres under the Pennar river canals system against 581 acres in the previous year.

E. GENERAL REPORT ON WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.

I. Irrigation Works.

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

	Channels.	Tanks.	Other works.	Total.
In charge of Public Works Department	508	2,539	..	3,047
In charge of Revenue Department	5,372	24,325	1,656	31,353
Total	5,880	26,864	1,656	34,400

2. The area irrigated, the outlay and the revenue from works of this class are dealt with in paragraph 9 of Chapter IV.

3. The subjoined statement shows the details of outlay during 38-39 on works by minor heads :—

Minor heads.	Ordinary minor works.		Old maintenance charges.	Tank Restoration Scheme works.	Total.
	Public Works Department.	Revenue Department Works in charge of Public Works Department.			
(1)	(2)	(3)	(4)	(5)	(6)
	RS.	RS.	RS.	RS.	RS.
Works	41,194	..	..	..	41,194
Extensions and improvements	41,211	2,518	83,840	..	1,27,569
Maintenance and repairs	8,30,185	3,310	5,60,783	15,193	14,09,471
Establishment	2,95,285	2,498	2,34,307	4,001	5,36,091
Tools and plant	1,196	3	570	58	1,827
Miscellaneous expenditure	52,106	..	..	..	(a) 52,106
Total	12,61,177	8,329	8,79,500	19,252	21,68,258
Additional outlay incurred by civil officers on minor irrigation works	..	..	..	..	(b) 11,53,126
Grand total	..	..	..	..	33,21,384

(a) Represents outlay on other charges, establishment and tools and plant.

	RS.
(b) Works	12,497
Maintenance and repairs	8,94,968
Establishment	2,45,246
Tools and plant	415
Total	11,53,126

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

	1937-38.	1938-39.
	RS.	RS.
Irrigation revenue	81,01,313	59,14,582
Receipts collected by the Public Works Department	59,365	58,946
Total	81,60,678	59,73,528

5. The net revenue of the year after deducting working expenses amounted to Rs. 27,07,187 against Rs. 47,64,536 in the previous year. The decrease during the year was due to large remissions granted.

APPENDIX I.
STATISTICAL STATEMENTS (PRESCRIBED BY THE SECRETARY OF STATE).
A I.—Statement of Canals in the Madras Presidency for the year 1938-39.

APPENDIX I.

STATISTICAL STATEMENTS (PRESCRIBED BY THE SECRETARY OF STATE).

A I.—Statement of Canals in the Madras Presidency for the year 1938-39.

Source of supply of water	Cauvery system. (1)	Srivalkuntam system. (2)	Godavari delta system. (3)	Mechamattur ancient system. (4)	Tadapalli channel. (5)	Kallangaroyan ancient system. (6)	Vridhalancium ancient system. (7)	Marudutambaram system. (8)
Minimum discharge of river	Cft. per second	..	1,275	163	..	..	17	..
Maximum discharge of main canals, as designed	45,030	1,860	14,510	263	725	893	351	1,595
Maximum discharge during the year	25,297	1,816	13,785	235	431-01	737	364	1,246
Average rainfall for the year	54.55	34.49	50.50	35.76	20.87	22.77	36.06	34.49
Gross area commanded	1,706,023	80,000	1,295,000	13,702	29,693	23,696	19,993	35,840
Culturable area commanded	909,034	33,500	1,122,500	10,451	19,332	17,805	16,359	17,920
Area irrigable by complete project	908,375	26,000	840,000	5,200	19,332	13,843	15,559	17,920
Area irrigable at present	900,926	26,000	810,000	5,000	15,183	11,386	8,829	17,920
Sanctioned estimate—								
Direct charges	10,65,925	13,61,520	1,10,89,332	70,761	1,70,380	1,78,780	84,191	50,541
Indirect charges	1,60,767	1,15,286	1,34,864	1,897	11,050	4,506	2,494	1,265
Interest during construction	..	7,40,577	1,11,38,052	..	..	..	..	..
Total, Estimate	18,29,692	22,26,383	2,41,62,248	72,658	1,81,430	1,83,286	86,685	51,806
Expenditure to end of 1938-39—								
Direct charges	77,49,768	16,67,450	1,65,70,789	81,924	1,69,383	1,75,980	1,04,144	58,721
Indirect charges	2,61,273	1,07,604	20,60,350	2,071	11,063	4,506	4,060	1,401
Interest during construction	13,37,765	8,67,827	90,82,397	..	..	..	..	..
Total, Expenditure	93,48,806	26,42,890	2,86,13,536	83,995	1,77,446	1,80,486	1,08,204	60,122
Works completed at end of 1938-39—								
Main canals, irrigation	1,2584	28	500-5/8	7	48	57	17	29
Branch canals, irrigation	..	..	..	8	37	54	16	..
Distributaries	3,205	46	1,887	9-26	..	..	16	74
Of above—								
Navigable	..	..	491-3/8	..	..	..	..	..

A-1.—Statement of Canals in the Madras Presidency for the year 1938-39—cont.

Source of supply of water	Pennar river system. (9)	Arkanakota channel. (10)	Trunkoyilur ancient system. (11)	Slatatope ancient system. (12)	Cheyayr ancient system. (13)	Polney ancient system. (14)	Kistna delta system. (15)	Nandiyar channel system. (16)
Minimum discharge of river	..	..	134	136	NIL	NIL	..	..
Maximum discharge of main canals, as designed	8,392	552	1,271	850	1,542	3,217	13,284	237
Maximum discharge during the year	7,304	331,92	1,033	700	1,075	1,573	12,960	208
Average rainfall for the year	27.39	24.87	31.07	33.06	28.08	33.55	43.09	30.84
Gross area commanded	263,000	6,000	54,895	1,08,069	29,461	42,560	1,370,400	9,480
Culturable area commanded	100,000	5,000	45,977	43,965	20,401	23,824	1,000,000	9,480
Area irrigable by complete project	165,85	5,000	28,000	34,000	23,029	23,824	908,000	7,205
Area irrigable at present	105,000	4,821	28,000	31,000	22,687	22,462	820,000	7,084
Sanctioned estimate—								
Direct charges	47,80,280	1,47,000	3,66,759	9,15,245	4,46,285	2,07,178	1,42,13,010	63,231
Indirect charges	1,00,000	3,076	9,189	57,271	11,754	6,379	9,81,160	2,484
Interest during construction	22,83,418	..	..	..	..	..	1,28,24,718	..
Total, Estimate	80,74,803	1,50,682	3,75,948	9,72,516	4,58,119	2,73,557	2,80,18,886	65,715
Expenditure to end of 1938-39—								
Direct charges	58,58,200	1,40,769	3,89,189	10,29,416	5,24,060	2,95,108	2,08,00,553	63,231
Indirect charges	10,16,431	3,076	10,601	59,671	16,173	8,812	11,76,851	2,484
Interest during construction	25,84,125	..	..	..	..	..	96,15,269	..
Total, Expenditure	94,57,779	1,44,445	3,99,100	10,89,087	5,39,233	3,03,918	3,15,94,673	65,715
Works completed at end of 1938-39—								
Main canals, irrigation	26½	20	57	3	21	55	359½	31
Branch canals, irrigation	..	4	80	33	40	49	9,81,160	..
Distributaries	455-1/8	..	2923	149	120	78	2,027-3/8	..
Of above—	..	..	..	..	..	..	384½	..
Navigable	..	..	..	..	..	..	..	..
Source of supply of water	(17) River, Langulya, Vamsadhara and Caribula-gedda.	(18) River Coleroon.	(19) River Kistna.	(20) Godavari central Delta Bank canal.	(21) River Cauvery.	(22) River Tungabhadra.	(23) River Kortalyar.	(24) River Vellar.
Minimum discharge of river	..	..	..	52	..	227	..	208
Maximum discharge of main canals as designed.	..	2,377	1,237	292	1,671	2,000	113	740
Maximum discharge during the year.	..	2,680	960	255	1,987	1,800	3,566	435
Average rainfall for the year	49.30	71.87	40.81	56.23	25.23	29.99	38.95	30.80
Gross area commanded	88,000	158,626	170,000	28,135	78,897	383,115	10,124	60,070
Culturable area commanded	67,000	117,233	136,000	18,648	74,978	357,569	6,974	16,077
Area irrigable by complete project	60,800	110,308	88,000	17,500	71,434	130,282	5,216	16,060
Area irrigable at present	..	107,929	58,069	17,500	60,050	123,419	6,216	12,837
Sanctioned estimate—								
Direct charges	2,58,182	18,09,597	51,01,981	17,07,191	42,06,845	1,76,35,009	74,535	6,42,823
Indirect charges	10,203	71,259	70,493	24,463	71,381	..	1,666	47,800
Interest during construction	..	..	..	..	..	..	..	..
Total, Estimate	2,68,385	19,40,856	51,78,474	18,21,657	43,69,226	1,76,35,000	76,201	6,90,623
Expenditure to end of 1938-39—								
Direct charges	2,78,196	29,13,423	55,24,424	10,96,575	38,72,546	2,33,13,076	74,366	6,43,302
Indirect charges	11,030	88,246	1,05,062	..	98,878	73,438	1,916	48,772
Interest during construction	..	..	49,951	..	12,91,508	..	..	..
Total, Expenditure	2,89,226	30,01,669	56,78,537	10,96,575	52,02,927	2,33,87,114	76,282	6,92,074
Works completed at end								

A-I.—Statement of Canals in the Madras Presidency for the year 1938-39—*cont.*

Source of supply of water	Palar ancient system.	Muniyuru system.	Sattluru system.	Nagavalli river system.	Nagavalli ancient and supply channel.	Kaniyam palayam ancient.	Veda-raniyam canal.	Buckingham canal.
Minimum discharge of river	(25) River Palar.	(26) River Muniyuru.	(27) River Sattluru.	(28) River Nagavalli.	(29) Gunlaneru.	(30) River Bhavan.	(31) ..	(32) ..
Maximum discharge of main canals as designed.	5,631	300	477	414	78	27-56	..	..
Maximum discharge during the year	2,009	262	1,190	486	78	27-56	..	..
Average rainfall for the year	34-02	31-40	34-71	47-020	34-35	1,600	..	..
Gross area commanded	140,131	14,471	33,576	49,320	804	1,600	..	..
Culturable area commanded	105,032	13,054	20,576	31,200	804	432	..	..
Area irrigable by complete project	92,718	10,580	4,600	27,658	804	400	..	..
Area irrigable at present	78,668	10,000	4,600	27,658	804	228	..	..
Sanctioned estimate—								
Direct charges	23,28,492	..	4,47,108	17,47,770	1,07,295	1,36,343	1,32,000	85,50,015
Indirect charges	1,16,762	6,09,434	17,619	88,630	2,595	3,757	3,733	4,86,256
Interest during construction	..	..	..	2,93,217	..	..	..	..
Total, Estimate	24,45,244	6,09,434	4,64,727	21,09,517	1,09,800	1,40,100	1,36,432	90,44,271
Expenditure to end of 1938-39—								
Direct charges	23,48,502	..	4,47,108	17,02,165	1,07,295	1,07,221	1,32,000	90,84,027
Indirect charges	1,17,304	6,09,145	17,619	42,806	2,595	3,553	3,733	..
Interest during construction	..	..	..	2,93,217	..	..	..	..
Total, Expenditure	24,65,806	6,09,145	4,64,727	20,37,888	1,09,800	1,11,074	1,36,432	90,84,027

Works completed at end of 1938-39—

Main canals, irrigation	156	..	12	64	2	20	31	276
Branch canals, irrigation	..	34	..	..	..	..	..	..
Distributaries	..	139	..	47	..	..	..	..

Of above—

Navigable	..	..	..	..	..	..	3	207
-----------	----	----	----	----	----	----	---	-----

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1938-39.

Source of supply of water	Chembram-bakkam tank.	Cumbum tank.	Petiyar system.	Toludur (Villinadon) reservoir.	Cauvery-Mettur Project.	Barur tank.	Madras water-supply and irrigation system.
Contents of tank between levels of surface of full supply and sill of canal head sluice	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Area of surface at full supply	3,146	2,942-17	9,815	2,501-58	93,500	248-6	2,729-804
Gross area commanded	5,729	5,800	10,220	33,046	59-25	605	15,301
Culturable area commanded	32,554	7,860	708,000	33,400	497,200	6,887	16,190
Area irrigable by complete project	24,478	6,000	Not known.	28,000	497,200	6,887	10,165
Area irrigable at present	15,300	6,000	143,000	27,670	332,000	6,887	9,882
Sanctioned estimate—							
Direct charges	6,48,970	83,935	84,71,000	29,60,000	7,23,11,000	4,00,000	15,47,123
Indirect charges	1,12,547	2,338	2,70,000	2,50,000	13,07,000	25,300	2,58,945
Interest during construction	..	..	10,23,000	..	1,42,81,366	41,439	..
Total, Estimate	7,61,517	86,373	1,03,73,606	32,10,000	8,70,89,366	4,66,739	17,86,003
Expenditure to end of 1938-39—							
Direct charges	6,51,348	83,935	1,04,04,637	26,22,223	6,47,71,888	4,10,375	16,71,632
Indirect charges	1,12,795	2,388	3,71,027	..	10,46,337	23,738	2,50,037
Interest during construction	..	..	10,06,402	..	2,41,45,532	80,175	..
Total, Expenditure	7,64,143	86,373	1,24,42,056	26,22,223	8,99,63,757	5,23,288	19,21,710
Works completed to end of 1938-39—							
Dam (height completed)	25	56	173	50	214	28	30
(earth).	(earth).	(earth).	(earth).	(earth).	(masonry).	(earth).	(earth).
Canals	10	..	152	31	113	11	11
Distributaries	1	23	118	40	504	26	..
Square miles.	..	..	..	..	..	..	..

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1938-39—cont.

Source of supply of water	Donadap tank.	Yerur tank.	Atmakur tank.	Jangam- makevar- puram tank.	Anama- sandalam- Berasam tank.	Hellouram tank.	Ponnalur tank.
.. .. .	(8)	(9)	(10)	(11)	(12)	(13)	(14)
.. .. .	Rainfall ..	Rainfall and surplus of upper tanks and spill from Chak- lakavra branch of Swarna- mudi.	Catchment of Chikudra and vanka and Kongunda vagus.	Catchment of Donal vagu.	Bersera river.	Damodara diverted into the tank.	Gudisera diverted into the tank.
If } Area of catchment .. Sq. miles.	56	60 50	105	60	23 32	100	32 14
supplied by } Average rainfall dur- rainfall. } ing the year .. Inches.	24 10	25 21	24 64	34 36	23 30	25 34	20 99
Contents of tank between levels of surface of full supply and sill of canal head sluice	238 33	317 09	194	70	90 57	309	180 512
Area of surface at full supply ..	705	3 253	575	619	474	1 009	719
Gross area commanded ..	3 240	3 176	1 700	960	1 000	2 909	1 873
Culturable area commanded ..	2 880	3 176	1 180	960	1 000	2 909	1 873
Area irrigable by complete project ..	250	1 690	480	290	1 000	709	1 000
Area irrigable at present ..	250	1 470	480	290	1 000	709	1 000
Sanctioned estimate—							
Direct charges	1,24,786	61,741	1,09,051	61,353	71,037	2,78,774	1,02,887
Indirect charges	15,218	1,612	13,423	10,411	1,886	33,100	25,011
Interest during construction	..	..	..	..	..	..	..
Total, Estimate	1,40,004	63,353	1,22,474	71,664	72,923	3,11,883	2,15,898
Expenditure to end of 1938-39—							
Direct charges	1,24,786	61,741	1,11,959	61,253	71,037	2,78,774	1,02,875
Indirect charges	15,218	1,612	13,444	10,411	1,886	33,100	25,074
Interest during construction	..	..	..	..	..	..	..
Total, Expenditure	1,40,004	63,353	1,25,403	71,664	72,923	3,11,883	2,18,949
Works completed to end of 1938- 39—							
Dam (height completed)	23 (partly earth and partly masonry)	..	33	4	..	6 (masonry).	21 1/2
Canals	..	..	..	..	..	..	..
Distributaries	..	..	..	..	..	..	..

APPENDIX I

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1938-39—cont.

Source of supply of water	Markapur tank.	Venkata- puram tank.	Bhavanasl tank.	Yellapur tank.	Panjapatti reservoir.	Siddapur tank.	Molnad reservoir.
.. .. .	(15)	(16)	(17)	(18)	(19)	(20)	(21)
.. .. .	Gundla- kanana river.	Free basin and supply from Dione river.	Rainfall.	Catchment basin and supply from Chitravati river.	Dralhago basin.	Bhavanasl and other vagus.	Manneru.
If } Area of catchment .. Sq. miles.	270 25	51	43	20 50	103	45	250
supplied by } Average rainfall during rainfall. } the year .. Inches.	23 80	21 30	23 09	29 01	22 92	42 09	20 1 1/2
Contents of tank between levels of surface of full supply and sill of canal head sluice	124 52	237	174 94	349 5	225	636	2,007
Area of surface at full supply ..	811	443	650	2,917	600	1,125	3,100
Gross area commanded ..	1,931	1,700	2,700	1,707	2,500	4,900	13,890
Culturable area commanded ..	1,701	1,418	2,418	1,641	900	4,250	13,891
Area irrigable by complete project ..	1,701	340	841	825	900	1,000	12,500
Area irrigable at present ..	1,583	340	841	825	100	1,000	12,500
Sanctioned estimate—							
Direct charges	1,10,657	3,31,776	2,02,289	2,35,711	3,30,090	9,21,980	21,07,000
Indirect charges	4,001	14,824	6,711	30,089	63,510	20,820	1,00,000
Interest during construction	..	..	47,173	..	..	..	..
Total, Estimate	1,20,658	3,46,600	2,56,173	2,65,800	4,04,600	9,48,800	22,07,000
Expenditure to end of 1938-39—							
Direct charges	1,24,481	3,72,250	2,54,395	2,39,192	3,27,781	7,91,038	21,83,275
Indirect charges	4,859	12,071	11,006	30,515	11,495	13,448	96,432
Interest during construction	..	71,315	20,806	..	..	..	..
Total, Expenditure	1,29,340	4,56,233	2,95,297	2,69,707	3,39,276	8,04,486	22,80,697
Works completed to end of 1938-39—							
Dam (height completed)	22 (earth).	31	20	15	40 (core wall).	27 1/2	71 1/2 (earth).
Canals	..	..	..	..	..	..	..
Distributaries	..	..	..	..	..	..	..

APPENDIX I

B-I.—Capital Accounts of Irrigation, Navigation, Embankment and Drainage Works (classified as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1938-39—cont.

55

Works or systems.		Direct charges (net expenditure).							Total excluding interest.		Simple interest.	
		Works.	Establishment.	Tools and plants.	Suspense.	Deduct receipts on capital account.	Total.	Indirect charges.				
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
A. IRRIGATION WORKS.												
2 UNPRODUCTIVE WORKS.												
Kurnool-Cuddapah canal.	{ To end of previous year.	1,90,93,092	3,80,864	40,84,003	..	2,44,283	2,33,13,676	73,438	2,33,87,114	4,57,04,002	RS.	RS.
	{ During the year ..	3,42,762	78,501	6,961	..	..	4,28,202	23,809	4,52,011	10,49,115		
Barur tank ..	{ To end of previous year.	21	5	..	..	..	26	..	26	7,77,597		
	{ During the year ..	60,892	13,679	25	..	..	74,369	1,916	76,282	10,204		
Vallur anicut ..	{ To end of previous year.	13,92,995	2,30,243	6,928	..	1,302	10,23,864	2,40,054	18,08,918	1,73,091		
Madras Water-supply and Irrigation system.	{ To end of previous year.	5,20,637	1,17,426	6,037	..	..	6,43,302	48,772	6,92,074	3,346		
Pelardoral anicut ..	{ To end of previous year.	18,50,071	4,69,061	30,042	..	..	23,48,802	1,17,304	24,66,806	30,57,804		
	{ During the year ..	11,801	3,849	12	..	..	15,102	118	16,230	73,290		
Palar anicut system..	{ To end of previous year.	4,70,011	1,06,339	3,747	..	1,732	5,78,395	29,802	6,08,167	12,19,064		
Muntyeru system ..	{ To end of previous year.	725	245	1	..	..	971	7	978	28,049		
Dondapad tank ..	{ To end of previous year.	1,05,848	18,915	..	..	..	1,24,786	15,218	1,40,004	51,67,514		
	{ During the year ..	50,219	11,522	..	..	..	61,741	1,012	63,353	1,06,005		
Yerur tank ..	{ To end of previous year.	3,54,321	80,339	12,449	..	1	4,47,108	17,910	4,64,727	8,21,164		
Sagileru tank ..	{ To end of previous year.	92,765	10,191	3	..	..	1,11,959	13,444	1,25,403	20,043		
Atmakur tank ..	{ To end of previous year.	..	..	..	..	..	..	..	..	1,90,354		
	{ During the year ..	..	..	..	..	..	..	..	..	5,615		
		52,591	8,030	..	..	..	61,253	10,411	71,064	70,339		

APPENDIX I

Jangamhewari- puram tank.	{ To end of previous year.	52,591	8,030	..	..	..	61,253	10,411	71,064	72,278	RS.	RS.
	{ During the year ..	..	..	..	..	..	..	..	..	2,750		
Anamasamudram- Beraperu tank.	{ To end of previous year.	58,421	13,266	..	..	..	71,687	1,886	73,573	75,003		
	{ During the year ..	2,30,636	48,308	..	..	..	2,78,774	33,109	3,11,883	3,226		
Kalijpuram tank ..	{ To end of previous year.	1,01,263	31,658	..	..	..	1,32,921	..	1,32,921	3,09,202		
	{ During the year ..	..	..	..	..	..	..	..	..	12,545		
Ponnalur tank ..	{ To end of previous year.	1,01,374	23,066	..	..	..	1,24,481	..	1,24,481	2,10,697		
	{ During the year ..	..	..	..	..	..	..	..	..	8,084		
Markapur tank ..	{ To end of previous year.	13,45,875	2,81,486	93,463	..	..	17,15,516	44,334	17,59,850	1,23,732		
	{ During the year ..	3,425	1,285	30	..	..	4,749	34	4,783	5,002		
Nagavalli river system.	{ To end of previous year.	3,03,994	64,539	4,236	..	..	3,72,250	12,671	3,84,921	16,761		
Venkatapuram tank.	{ To end of previous year.	1,85,879	43,103	..	..	..	2,54,395	..	2,54,395	2,20,508		
	{ During the year ..	..	..	..	..	..	..	..	..	11,448		
Bhavanasi tank ..	{ To end of previous year.	1,91,292	41,156	7,087	..	..	2,39,102	30,515	2,69,707	2,19,978		
	{ During the year ..	..	..	..	..	..	..	..	..	10,704		
Yellanur tank ..	{ To end of previous year.	2,24,998	43,411	60,075	..	..	3,27,781	11,495	3,39,276	2,77,160		
	{ During the year ..	..	..	..	..	..	..	..	..	14,760		
Panjarathi reservoir ..	{ To end of previous year.	5,22,751	96,255	1,72,474	..	..	7,91,038	13,448	8,04,486	6,04,144		
	{ During the year ..	..	..	..	..	..	..	..	..	35,507		
Siddapur tank ..	{ To end of previous year.	88,757	18,538	..	..	..	1,07,295	..	1,07,295	89,973		
	{ During the year ..	..	..	..	..	..	..	..	..	4,828		
Nagavaram anicut ..	{ To end of previous year.	16,67,216	3,20,610	2,34,214	..	..	21,94,146	96,429	22,90,575	20,10,829		
	{ During the year ..	..	..	..	..	..	..	..	..	98,736		
Mopad reservoir ..	{ To end of previous year.	97,391	27,035	..	..	..	1,24,426	..	1,24,426	1,11,568		
	{ During the year ..	..	..	..	..	..	..	..	..	4,825		
Kaniyampalayam anicut.	{ To end of previous year.	4,35,339	1,23,132	..	..	..	5,58,471	11,903	5,70,374	1,03,369		
	{ During the year ..	..	..	..	..	..	..	..	..	25,198		
Tiruvayallem pro- ject.	{ To end of previous year.	2,506	1,602	3	..	..	4,111	25	4,136	25,198		
	{ During the year ..	..	..	..	..	..	..	..	..	..		

APPENDIX I

55

B-I.—Capital Accounts of Irrigation, Navigation, Embankment and Drainage Works (classified "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1938-39—cont.

Direct charges (net expenditure).									
Works of systems.									
(1)									
Works.	Establishment.	Tools and plant.	Suspense.	Deduct receipts on capital account.	Total.	Indirect charges.	Total excluding interest.	Simple interest.	
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	RS.
A. IRRIGATION WORKS—cont.									
2. UNPRODUCTIVE WORKS—cont.									
Basavannah channel	1,10,708	2,195	..	..	5,79,466	6,555	5,86,021	2,62,277	
During the year ..	1,458	..	..	..	3,735	23	3,759	26,151	
To end of previous year.	987	4	..	..	2,983	20	3,003	68	
Dinvaleru project.	4,871	4	..	..	7,933	49	8,037	300	
During the year ..	28,27,057	47,51,200	..	3,02,899	3,77,45,093	9,03,501	3,86,48,997	6,50,67,146	
To end of previous year.	11,057	61	..	..	36,743	256	36,999	16,99,019	
Total A. Irrigation works—2. Unproductive works.	15,54,51,931	2,39,64,219	1,03,851	25,60,982	18,55,24,955	77,80,200	19,33,11,221	21,65,75,466	
During the year ..	6,91,234	1,491	—	3,947	9,18,819	27,050	9,46,769	83,69,832	
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.									
2. UNPRODUCTIVE WORKS.									
Vedarambakkam canal.	1,07,885	24,814	..	..	1,32,699	3,733	1,36,432	3,50,113	
During the year ..	68,21,308	16,14,546	1,61,040	24,365	85,92,529	4,89,464	90,81,993	5,971	
To end of previous year.	1,706	220	..	..	2,016	18	2,034	3,86,707	
Buckingham canal.	69,20,103	16,30,360	1,61,040	24,365	87,25,928	4,93,197	92,18,425	1,83,70,839	
During the year ..	1,706	220	..	..	2,016	18	2,034	3,92,678	
Total, Unproductive works.	69,20,103	16,30,360	1,61,040	24,365	87,25,928	4,93,197	92,18,425	1,83,70,839	
During the year ..	1,706	220	..	..	2,016	18	2,034	3,92,678	
Total, Navigation etc., works.	16,23,81,124	2,53,03,579	90,55,946	25,94,317	10,45,50,153	82,79,493	20,25,29,616	23,49,46,305	
During the year ..	6,93,099	2,51,988	1,491	3,947	9,20,835	27,050	9,48,203	87,50,510	

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classified as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1938-39.

Revenue (actual receipts).									
Works or systems.									
(1)									
Irrigation.									
Works or systems.	Irrigation revenue.	Share of land revenue.	Total.	Navigation.	Plantation.	Miscellaneous.	Total.	Less refunds of revenue.	
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	RS.
A. IRRIGATION WORKS.									
1. PRODUCTIVE WORKS.									
1 Cauvery delta system	40,22,865	88,608	40,53,300	646	5,574	8,209	14,429	54	
2 Sivakuntam ancient system	1,68,037	35,435	1,90,547	..	..	7,085	8,333	96	
3 Govavari delta system	43,31,620	2,30,403	45,62,023	1,75,248	4,063	40,983	2,29,294	20,465	
4 Mahamatpur ancient system	14,158	193	14,351	..	52	514	566	..	
5 Madhapalli channel system	1,15,374	2,923	1,18,297	..	1,270	178	1,448	..	
6 Kallugurayan channel system	1,11,177	433	1,11,610	..	1,036	81	1,722	..	
7 Vridhachalam ancient system	25,552	339	25,891	..	363	21	384	..	
8 Chembrambakkam tank system	37,729	957	38,686	..	..	120	120	..	
9 Marudur ancient system	1,77,648	279	1,77,927	..	177	940	1,117	..	
10 Pennar river canals system	6,62,619	72,508	7,35,127	..	208	2,622	2,814	301	
11 Arkenkota channel system	34,435	423	34,858	444	281	21	302	..	
12 Tirukkoyilur ancient system	66,872	3,369	70,241	..	676	182	858	..	
13 Shattatope ancient system	1,37,942	17,031	1,54,973	..	503	203	706	..	
14 Cheyyar ancient system	57,433	4,735	62,168	..	197	1,072	1,269	..	
15 Cumbum tank system	35,922	461	36,383	..	..	..	..	..	
16 Polney ancient system	58,427	5,488	63,915	..	106	173	279	..	
17 Periyar system	7,64,046	94,841	8,58,887	739	2,738	8,346	11,814	123	
18 Kistna delta system	38,47,234	1,80,685	34,36,869	1,14,493	3,404	55,129	1,73,026	811	
19 Nandiyar channel system	27,779	243	28,022	..	321	107	428	..	
20 Chinnacole minor rivers system	1,22,750	7,874	1,30,624	..	2,457	2,097	4,554	63	
21 Lower Coleroon ancient system	4,19,366	51,515	4,70,881	..	..	3,367	3,745	1	
22 Kistna East Bank canal extension scheme	2,89,392	87,205	3,76,597	378	..	88	355	..	
23 Toludur reservoir system	1,00,394	87,804	1,88,198	..	127	102	229	..	
24 Polavarum island project	87,804	..	87,804	..	3,028	13,137	10,167	11	
25 Cauvery-Mettur project	13,03,902	..	13,03,902	22	1,940	1,397	3,363	3	
26 Kattalal scheme	3,29,112	121	3,29,233	23	..	..	..	..	
Total, A. Irrigation works—(1) Productive works	1,63,03,666	8,08,443	1,76,18,109	2,91,992	30,636	1,54,912	4,77,540	21,937	
2. UNPRODUCTIVE WORKS.									
1 Kurnool-Chudadah canal	3,21,271	3,004	3,24,275	72	..	5,711	5,783	1,680	
2 Barur tank	21,342	782	22,124	..	50	1,668	1,718	..	
3 Vallur ancient	—	1,071	—	..	..	161	161	..	
4 Madras Water-supply and Irrigation system	—	403	—	..	833	52,793	52,793	..	
5 Pelandoral ancient system	18,261	86	18,347	..	584	187	1,020	..	
6 Palur ancient system	2,43,498	16,852	2,60,350	..	..	1,139	1,723	..	
7 Muniyeru ancient system	43,601	62	43,723	..	..	928	928	..	

Works or systems.		Revenue (actual receipts).							Less refunds of revenue.		
(1)		Irrigation.			Navigation.		Plantation.				
		Irrigation revenue.	Share of land revenue.	Total.	(5) RS.	(6) RS.	(7) RS.	Total. (8) RS.			
A. IRRIGATION WORKS—cont.											
2. UNPRODUCTIVE WORKS—cont.											
8	Dondapad tank	1,817	10	1,827	..	..	..	..	..		
9	Yeur tank	—	86	— 986	..	..	..	..	..		
10	Sadleru system	19,307	26	19,333	..	..	..	..	..		
11	Atmakur tank	1,608	..	1,608	..	..	51	51	..		
12	Jangamabeswarapuram tank	860	..	860	..	..	..	..	..		
13	Anjnasimudram-Beraperu tank	— 127	1	— 126	..	..	..	..	..		
14	Halipuram tank	3,325	70	3,395	..	..	..	..	..		
15	Ponnalur tank	3,723	..	3,723	..	..	..	..	..		
16	Markapur tank	7,738	..	7,738	..	..	..	..	..		
17	Nagavalli river system	95,321	1	95,322	..	..	..	..	..		
18	Venkatapuram tank	1,438	38	1,476	0	..	..	..	..		
19	Bhavanasi tank	5,151	..	5,151	..	..	..	1,022	..		
20	Yellatur tank	1,943	..	1,943	..	..	..	..	..		
21	Panjapatir reservoir project	..	1,104	3,047	..	..	8	..	..		
22	Siddapur tank	..	..	..	..	..	..	..	..		
23	Nagavaram ancient and supply channel	5,229	..	5,229	..	..	..	..	..		
24	Mopad reservoir system	2,509	1,017	3,526	..	..	..	..	..		
25	Kaniyampalayam alicut	38,220	5,170	43,390	..	..	32	32	..		
26	Tippayapalem project	..	..	..	..	..	140	140	..		
27	Basavavah channel	5,733	..	5,733	..	..	4,000	4,000	..		
28	Duvvaleru project	..	..	..	..	..	..	..	..		
Total, A. Irrigation works—(2) Unproductive works		8,83,903	51,411	8,88,314	78	1,492	67,833	69,453	1,688		
Total A. Irrigation works		1,76,40,569	8,59,854	1,85,00,423	2,92,070	32,123	2,22,705	5,40,993	23,025		
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.											
(2) UNPRODUCTIVE WORKS.											
Vedaranniyam canal											
Buckingham canal											
..	..	..	..	..	674	14	40	728	2		
..	..	..	..	..	1,02,648	950	3,756	1,07,354	40		
..	..	..	..	..	1,03,322	904	3,706	1,08,082	42		
..	..	..	..	..	1,03,322	904	3,706	1,08,082	42		
Total, B. Navigation, etc., works		..	..	..	3,05,392	33,092	2,20,501	6,55,075	23,007		
Total, Construction of Irrigation, etc., works..		1,76,40,569	8,59,854	1,85,00,423	3,05,392	33,092	2,20,501	6,55,075	23,007		

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classified as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1938-39—cont.

Works or systems.	Revenue (actual receipts)—cont.					Working expenses—Revenue management.				
	Gross revenue less refunds.		Deduct share of old irrigation revenue.		Total revenue due to improvements.	Establishment.			Total revenue management.	
	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
A. IRRIGATION WORKS—cont.										
1. PRODUCTIVE WORKS—cont.										
1 Canvey delta system ..	88,008	88,608	11,99,012							
2 Srivalkuntam ancient system ..	40,72,076	28,73,063	1,28,784							
3 Godavari delta system ..	47,70,852	1,24,000	46,46,852							
4 Melamattur ancient system ..	14,920	4,000	10,920							
5 Kadapalli channel system ..	1,19,751	76,000	43,751							
6 Kalladrayan channel system ..	1,13,378	85,000	28,378							
7 Vridhachalam ancient system ..	26,275	8,500	17,775							
8 Chembrambakkam tank system ..	38,812	16,000	22,812							
9 Marudur ancient system ..	1,79,044	1,15,000	64,044							
10 Pennar river canals system ..	36,185	2,56,000	1,16,815							
11 Arunkota channel system ..	71,099	20,000	51,099							
12 Tirukkoyilur ancient system ..	1,55,079	39,000	1,16,079							
13 Shattatope ancient system ..	63,487	30,000	33,487							
14 Cheyyar ancient system ..	36,383	30,000	6,383							
15 Ponnay ancient system ..	64,194	20,000	44,194							
16 Kistna delta system ..	8,70,578	2,01,000	6,69,578							
17 Periyar system ..	28,450	17,000	11,450							
18 Nandivar channel system ..	1,30,713	95,000	35,713							
19 Chicalole minor rivers system ..	4,76,367	1,55,000	3,21,367							
20 Lower Coleroon ancient system ..	3,80,341	20,300	3,60,041							
21 Kistna East Bank canal extension scheme ..	1,01,197	10,500	90,697							
22 Toludur reservoir system ..	88,033	99,071	1,87,104							
23 Polavarum island project ..	13,20,078	2,54,000	10,66,078							
24 Canvey-Mettur project ..	3,32,593	47,70,024	51,02,617							
25 Kattalai scheme ..	1,80,73,712	88,608	1,81,62,320							
Total, A. Irrigation Works—1. Productive Works ..	88,008	47,70,024	1,33,03,688							
2. UNPRODUCTIVE WORKS.										
1 Kurnool-Cuddapah canal ..	3,28,381	35,872	2,92,509							
2 Barur tank ..	23,842	4,500	19,342							
3 Vallur ancient ..	50,923	11,000	39,923							
4 Madras Water-supply and Irrigation system ..	19,367	3,000	16,367							
5 Pelandur ancient system ..	2,61,073	1,25,000	1,36,073							
6 Palur ancient system ..	44,651	2,500	42,151							
7 Muniyur system ..	1,827		1,827							
8 Dondapad tank ..										

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classified as “Productive” and “Unproductive”) for which Capital and Revenue Accounts are kept in the Madras District Board for the year ending 1938-39—*cont.*

Works or systems.	Revenue (actual receipts)—cont.			Working expenses—Revenue management.		
	Gross revenue less refunds.	Deduct share of old irrigation revenue.	Total revenue due to improvements.	Direction.	Establishment.	Total revenue management.
	(10) RS.	(11) RS.	(12) RS.	(13)	(14)	(15) RS.
A. IRRIGATION WORKS—cont.						
2. UNPRODUCTIVE WORKS—cont.						
9 Yerur tank	— 936	425	— 1,411	..	..	..
10 Sagileru system	10,384	17,800	1,584	..	..	..
11 Atmakur tank	1,608	..	1,608	77	77	— 70
12 Jangamaheswarapuram tank	1,600	500	360	..	..	80
13 Anamasandram-Betapur tank	1,300	3,000	..	..	..	18
14 Hailpuram tank	3,393	..	3,393	..	..	186
15 Ponnalar tank	7,723	..	8,723	..	..	169
16 Markapur tank	7,723	2,130	5,600	..	..	186
17 Nagavalli river system	1,17,909	37,400	80,509	..	..	281
18 Venkatapuram tank	1,472	164	1,312	..	..	3,179
19 Bhavanasi tank	5,159	..	5,159	..	..	65
20 Yellaur tank	3,047	..	3,047	..	..	258
21 Panlapatti reservoir project	5,920	..	5,920	..	..	128
22 Siddapur tank	3,558	..	3,558	..	..	201
23 Nagavaram anicut and supply channel	43,533	2,256	1,302	..	..	20
24 Mopad reservoir system	4,000	433	43,100	..	..	1,922
25 Kaniyampalayam anicut	5,733	..	4,000	..	..	287
26 Tippayapalem project	..	..	5,733	..	..	..
27 Basavanna channel	..	..	71	..	..	..
28 Duvvaluru Project	..	..	..	..	..	..
Total A. Irrigation Works—2. Unproductive Works	9,56,079	2,51,530	17,04,499	..	..	30,645
Total A. Irrigation Works	1,90,29,701	50,21,004	1,40,08,187	..	..	8,07,187
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.						
2. UNPRODUCTIVE WORKS.						
1 Vedaranniyam canal	726	..	726	..	..	..
2 Buckingham canal	1,07,314	..	1,07,314	..	..	..
Total, B. Navigation, etc., works—2. Unproductive Works	1,08,040	..	1,08,040	..	..	..
Total, B. Navigation, etc. works	1,08,040	..	1,08,040	..	..	..
Total, construction of irrigation, etc., works	1,91,37,831	50,21,004	1,41,16,227	..	..	..
	88,008	88,008				

C.I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classified as “Productive” and “Unproductive”) for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1938-39—*cont.*

Working expenses.		Maintenance and repairs.		Tools and plant.		Deduct recoveries on revenue account.		Total cost of maintenance.	
Establishment.		Extensious and improve-ments.		Maintenance and repairs.		Tools and plant.		Deduct recoveries on revenue account.	
Direction.	Execution.	Total.	RS.	RS.	(21)	(22)	(23)	(24)	RS.
(17)	(18)	(19)	RS.	RS.	(21)	(22)	(23)	(24)	RS.
A. IRRIGATION WORKS—cont.									
I. PRODUCTIVE WORKS—cont.									
1	Cauvery delta system ..	63,640	2,54,563	3,18,203	60,008	5,63,587	515	9,43,007	
2	Srivalkuntam anicut system ..	4,019	10,074	24,593	688	58,066		83,947	
3	Godavari delta system ..	69,816	2,76,202	3,46,078	—	7,89,239	7,917	10,52,924	
4	Mehamattur anicut system ..	1,195	4,778	5,073	497	12,796		11,378	
5	Thadapalli channel system ..	2,516	2,516	3,145	2	8,403	9	11,559	
6	Kallagarayan channel system ..	927	4,637	10,516	3,813	10,516	14	18,980	
7	Vridhachalam anicut system ..	1,702	3,710	8,509	4,896	13,596	15	22,016	
8	Chembrambakkam tank system ..	228	912	1,140	7,207	23,359	3	23,777	
9	Marudur anicut system ..	1,229	4,918	6,147	600	15,030		23,777	
10	Pennar river canals system ..	8,373	33,494	41,867	6,314	91,326	130	1,30,927	
11	Arankota channel system ..	289	1,157	1,446	..	4,101		5,551	
12	Tirukkoyilur anicut system ..	4,801	19,443	24,304	1,251	54,451	48	80,054	
13	Shattakope anicut system ..	5,183	20,733	25,916	149	54,571	46	80,082	
14	Cheyyar anicut system ..	2,732	10,926	13,658	3,641	41,302	44	58,045	
15	Cumbum tank system ..	402	1,606	2,008	1,989	1,006		5,009	
16	Polney anicut system ..	2,348	9,392	11,740	1,104	37,175	38	50,057	
17	Petiyar system ..	11,239	45,155	56,444	10,959	1,10,756	—	1,78,158	
18	Kistna delta system ..	53,930	2,15,719	2,69,649	47,506	4,45,141	607	7,62,003	
19	Nandiyar channel system ..	479	2,395	2,874	..	5,299		7,804	
20	Chitacole minor rivers system ..	3,018	12,075	15,093	40	35,005	399	50,537	
21	Lower Coleroon anicut system ..	9,143	36,571	45,714	4,767	85,302	77	1,35,860	
22	Kistna East Bank Canal extension scheme ..	4,209	16,799	20,909	3,277	44,450	59	68,704	
23	Toludur reservoir system ..	4,013	16,050	20,063	4,056	40,950	39	65,108	
24	Polavaram island project ..	1,383	5,474	8,842	1,068	12,724	156	20,790	
25	Cauvery-Mettur project ..	17,064	68,255	85,319	14,528	1,75,539	170	2,75,556	
26	Kattalai scheme ..	6,509	25,001	32,501	10,939	66,503	..	1,09,943	
Total, A.	Irrigation Works—1.	Productive works ..	11,17,006	13,97,383	39,372	27,84,650	10,294	42,81,999	
2. UNPRODUCTIVE WORKS.									
1	Kurnool-Cuddapah canal ..	10,802	43,209	54,011	1,662	87,844	64	1,23,581	
2	Barur tank ..	708	2,833	3,541	107	11,034	11	14,783	
3	Vallur anicut ..	139	555	694	10	4,494	2	5,200	
4	Madras Water-supply and Irrigation system ..	444	1,774	2,218	115	15,989	6	18,328	
5	Pelandur anicut system ..	1,318	6,270	6,588	984	11,069	11	10,252	
6	Palur anicut system ..	3,936	15,744	19,680	1,969	62,053	56	83,758	
7	Mumiyeru anicut system ..	702	2,809	3,511	926	6,011	9	10,457	</

C.I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classified as “Productive” and “Unproductive”) for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1938–39—*cont.*

60

Works or systems.	Working expenses.					
	Establishment.			Maintenance and repairs.		
	Direction. (17) RS.	Execution. (18) RS.	Total. (19) RS.	Extensions and improvements. (20) RS.	Maintenance and repairs. (21) RS.	Tools and plant. (22) RS.
A. IRRIGATION WORKS—<i>cont.</i>						
2. UNPRODUCTIVE WORKS—<i>cont.</i>						
8 Dondapad tank	15	60	75	..	101	..
9 Yerur tank	340	1,300	1,700	..	4,691	..
10 Sagileru system	595	2,381	2,976	..	4,605	..
11 Atmakur tank	75	208	273	..	303	..
12 Jangamaheswarapuram tank	54	216	270	..	247	..
13 Anamamiddram-Beraperu tank	43	172	215	..	614	..
14 Halipuram tank	41	162	203	..	314	..
15 Ponnalur tank	89	354	443	..	1,001	..
16 Markapur tank	339	1,555	1,944	..	2,485	..
17 Nagavalli river system	1,609	6,435	8,044	..	15,485	..
18 Venkatapuram tank	56	224	280	..	400	..
19 Bhavanasi tank	82	330	412	..	1,000	..
20 Yellanur tank	213	853	1,066	..	1,538	..
21 Panlajathi reservoir project	110	442	552	..	737	..
22 Nagavaram ancient and supply channel	485	223	708	..	400	..
23 Mopad reservoir system	62	1,860	2,325	..	4,935	..
24 Kanniyampalayan ancient	709	250	312	..	1,001	..
25 Tippiyavalem project	..	2,837	3,546	..	5,644	..
26 Basavanna channel	..	..	..	..	..	..
27 Duvvaleru project	..	..	..	..	..	..
Total, A. Irrigation Works—2. Unproductive Works	23,051	92,206	1,15,257	7,801	2,24,555	370
Total A. Irrigation Works	3,02,523	12,10,112	15,12,640	97,033	30,09,205	10,604
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.						
2. UNPRODUCTIVE WORKS.						
1 Vedaramnam canal	474	1,896	2,370	..	5,799	..
2 Buckingham canal	4,278	17,110	21,388	..	1,13,102	..
Total, B. Navigation, etc., works—2. Unproductive Works	4,752	19,006	23,758	12,230	1,18,901	72
Total, B. Navigation, etc., works	4,752	19,006	23,758	12,230	1,18,901	77
Total, Construction of Irrigation, etc., works	8,07,240	13,20,118	16,27,358	1,09,263	31,28,106	155,056

C.I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classified as “Productive” and “Unproductive”) for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1938–39—*cont.*

61

Works or systems.	Working expenses— <i>cont.</i>					
	Deduct old maintenance charges.			Total work- ing expenses on improve- ments.		
	Indirect charges. (25) RS.	Direct charges. (27) RS.	Total. (26) RS.	Total. (30) RS.	Net revenue. Total. (31) RS.	Due to improvements. (32) RS.
A. IRRIGATION WORKS—<i>cont.</i>						
1. PRODUCTIVE WORKS—<i>cont.</i>						
1 Cauvery delta system	7,025	8,22,067	5,018	3,30,268	29,15,322	8,68,744
2 Srivalkuntam ancient system	599	7,725	56	82,792	1,17,211	45,992
3 Godavari delta system	7,098	..	..	12,79,916	34,90,936	33,06,936
4 Mahamathur ancient system	133	898	6	19,021	5,005	8,101
5 Thadapalli channel system	84	4,536	36	9,136	1,05,993	34,615
6 Kallagurayan channel system	143	5,130	40	15,286	92,992	13,092
7 Vriddhachalam ancient system	237	28,121	..	28,121	1,846	10,346
8 Chembrambakkam tank system	72	6,043	54	3,459	20,256	19,353
9 Marudur ancient system	166	25,079	47	6,532	1,63,965	45,544
10 Pennar river canals system	976	39,082	206	18,500	6,02,814	3,86,792
11 Arkenkota channel system	41	1,148	..	1,24,948	28,799	10,956
12 Tirukkoilur ancient system	557	6,952	49	74,122	10,024	83,023
13 Shatikoole ancient system	547	2,317	16	5,229	7,701	50,034
14 Cheyyar ancient system	449	4,120	32	85,645	3,304	31,544
15 Cumbum tank system	30	1,302	8	56,031	1,028	2,338
16 Polney ancient system	383	4,012	31	47,690	12,461	21,496
17 Periyar system	1,866	35,979	259	1,72,245	6,02,095	4,94,333
18 Kistna delta system	4,034	9,32,532	..	9,32,532	26,76,572	26,05,572
19 Nandiyar channel system	53	4,456	32	3,802	20,160	7,648
20 Chicacole minor rivers system	351	6,453	47	48,106	78,047	10,453
21 Lower Coleroon ancient system	901	1,52,555	122	1,42,220	3,22,812	18,147
22 Kistna East Bank Canal extension scheme	477	10,262	..	67,171	2,96,740	2,92,870
23 Toludur reservoir project	404	16,239	..	70,085	31,112	20,522
24 Polavaram island project	138	25,318	..	25,318	62,715	62,715
25 Cauvery-Mettur project	2,255	10,070	114	3,21,824	9,82,070	8,99,283
26 Kattalai scheme	925	67,381	485	46,759	2,17,993	31,834
Total, A. Irrigation Works—1. Productive Works	30,334	10,69,414	6,830	40,12,331	1,29,85,137	92,91,357
2. UNPRODUCTIVE WORKS—<i>cont.</i>						
1 Kurnool-Cuddapah canal	695	4,903	30	1,33,742	1,89,706	1,58,767
2 Barur tank	112	15,746	..	16,746	8,096	3,596
3 Vallur ancient system	45	1,404	13	3,395	7,169	10,692
4 Madras Water-supply and Irrigation system	161	4,268	38	13,540	3,770	26,383
5 Pelandural ancient system	127	165	1	19,930	..	3,613

C.I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classified as “Productive” and “Unproductive”) for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1938-39—cont.

Works or systems.	Working expenses—cont.					Net revenue.	
	Deduct old maintenance charges.			Total.		Due to improvements.	
	Grand total of working expenses.	Direct charges.	Indirect charges.	Total.	Total.	(31) Rs.	(32) Rs.
(25) Rs.	(26) Rs.	(27) Rs.	(28) Rs.	(29) Rs.	(30) Rs.	(31) Rs.	(32) Rs.
A. IRRIGATION WORKS—cont.							
2. UNPRODUCTIVE WORKS—cont.							
6 Palur anicut system ..	640	3,066	31	3,097	87,918	1,72,858	51,855
7 Muddiyeru system ..	69	297	2	299	12,238	32,064	20,863
8 Dondapad tank ..	1	..	..	..	268	1,659	1,659
9 Yerur tank ..	47	..	..	..	6,374	7,300	7,785
10 Sogileru system ..	46	3,583	22	3,605	4,104	11,075	2,520
11 Attakur tank ..	9	..	..	..	1,377	231	..
12 Jangamaheswarapuram tank ..	7	..	..	..	1,930	170	..
13 Anamasandram-Berapetu tank ..	6	..	..	..	1,030	..	..
14 Rajapuram tank ..	3	854	6	860	..	..	..
15 Ponnalur tank ..	10	..	..	..	1,631	3,516	..
16 Markapur tank ..	29	..	..	..	1,041	2,706	..
17 Nagavalli river system ..	155	397	3	400	4,705	2,082	2,082
18 Venkatapuram tank ..	4	4,012	29	4,041	23,000	2,034	901
19 Bavanas tank ..	10	..	..	..	1,704	90,861	57,502
20 Yellanur tank ..	16	..	..	..	2,750	727	563
21 Panjapatli reservoir project ..	7	..	..	..	1,558	3,455	..
22 Siddapur tank ..	4	..	..	..	702	207	..
23 Nagavaram anicut and supply channel ..	53	..	..	..	9,607	3,671	3,671
24 Mopad reservoir system ..	10	..	..	..	1,234	2,856	600
25 Kanniyampalayam anicut ..	..	..	..	..	2,357	33,926	33,493
26 Thippayapalem project ..	..	..	..	..	9,151	2,076	2,076
27 Basavannah channel ..	..	..	..	..	..	5,446	5,446
28 Duvvaleru project ..	..	..	..	..	..	9,080	9,080
Total, A. Irrigation Works—2. Unproductive Works ..	2,322	21,900	175	21,084	3,56,726	5,75,269	3,47,773
Total, A. Irrigation Works ..	32,656	10,93,323	7,003	11,00,328	43,69,057	1,35,60,406	96,39,130
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS—cont.							
2. UNPRODUCTIVE WORKS—cont.							
1 Vedaraniyam canal ..	58	8,232	..	..	8,232	7,506	7,506
2 Buckingham canal ..	1,254	1,48,130	..	..	1,48,130	40,822	40,822
Total, B. Navigation, etc., Works—2. Unproductive Works ..	1,312	1,56,363	..	..	1,56,363	48,328	48,328
Total, B. Navigation, etc., Works ..	1,312	1,56,363	..	..	1,56,363	48,328	48,328
Total, Construction of Irrigation, etc., Works ..	36,978	12,09,686	7,003	12,16,691	45,25,417	1,35,60,406	96,39,130

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for and up to, the end of 1938-39.

General financial results to end of 1938-39.										
Name of works.	Mileage in operation.			Estimated cost of construction (direct and indirect).	Date of completion of work.	Date when system first came into operation.	Total capital outlay (direct and indirect).	Accumulated interest.	Accumulated surplus revenues.	Total sum-charge [column (7) plus column (8)].
	Main canals and branches.	Distributaries.								
(1)	(2)	(3)	(4)	(5)	(6-a)	(6-b)	(7)	(8)	(9)	(10)
		MILES.	MILES.	RS.	DATE.	DATE.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS.										
I. PRODUCTIVE WORKS.										
1	Canvey delta system ..	1,253½	3,205	83,64,841	31-3-1899	..	82,53,797	..	4,86,40,838	82,53,737
2	Sivalakuntam anicut ..	28	46	17,75,003	31-3-1899	..	17,75,003	..	1,50,952	17,75,003
3	Godavari delta system ..	509-5/8	1,887	1,91,17,425	31-3-1899	1877-78	1,89,66,784	..	14,10,16,122	1,89,66,784
4	Mohammat anicut ..	15	9½	87,184	March 1891	..	87,184	..	3,56,143	87,184
5	Tiddapalli channel ..	85	..	1,77,446	1893	..	1,77,446	..	17,69,132	1,77,446
6	Kallagarayan channel ..	62½	..	1,80,486	1893	..	1,80,486	..	6,94,076	1,80,486
7	Viddachalan anicut ..	33	16	1,08,204	31-3-1893	..	1,08,204	..	6,75,037	1,08,204
8	Chembarambakkam tank ..	10-7/8	1-5/8	7,64,143	31-3-1893	..	7,64,143	..	4,97,293	7,64,143
9	Marudur anicut system ..	29	7½	60,122	1893	..	60,122	..	40,02,437	60,122
10	Pennar river canals ..	30½	477	70,57,604	31-3-1894	1890-01	69,69,933	..	1,05,06,329	69,69,933
11	Arkonaka channel ..	24	..	1,44,445	31-3-1894	..	1,44,445	..	89,927	1,44,445
12	Trunkoyilur anicut ..	137	28½	3,99,190	31-3-1895	..	3,99,190	..	8,67,332	3,99,190
13	Shadtope anicut ..	41	149	10,89,561	31-3-1895	..	10,89,561	..	46,53,524	10,89,561
14	Chettyar anicut system ..	61	120	5,39,999	31-3-1896	..	5,39,999	..	76,873	5,39,999
15	Chumbam tank ..	23½	23½	86,373	31-3-1896	..	86,373	..	34,573	86,373
16	Pooncy anicut system ..	104	78	3,03,918	1897	..	3,03,918	..	13,57,366	3,03,918
17	Periyar system ..	152	118	1,08,35,654	31-3-1897	1896-97	1,08,35,654	..	34,24,287	1,08,35,654
18	Kizha delta system ..	407½	2,285	82,25,53,926	31-3-1898	..	2,15,03,740	..	10,06,31,061	2,15,03,740
19	Nandiyar channel ..	31	..	65,715	1899	..	65,715	4,944	..	70,659
20	Chinnole Minor river ..	270-3/8	78-3/8	2,80,226	31-3-1900	..	2,80,226	..	8,09,423	2,80,226
21	Lower Coleroon anicut ..	383	620½	30,01,669	30-6-1903	..	30,01,669	..	1,38,86,339	30,01,669
22	Kisna East Bank canal ..	35-3/8	200½	58,32,993	31-10-1913	1917-18	56,95,723	5,825	..	57,01,548
23	Toludur Reservoir ..	31½	40	20,47,391	31-10-1925	1924-25	20,22,228	14,08,292	..	40,30,520
24	Polavarum .. island ..	44-5/8	504½	17,03,892	23-2-1934	1929-30	16,96,575	38,951	..	17,35,526
25	Canvey-Mettur project ..	74-3/8	44½	6,79,00,000	30-9-1934	1932-33	6,59,41,032	2,61,64,692	..	9,21,05,724
26	Kattiala scheme ..	..	..	45,13,712	..	1929-30	40,11,795	14,34,872	..	54,49,667
Total, A. Irrigation, I. Productive Works ..		3,937	10,533-1/8	15,95,40,187	..	..	15,55,71,994	2,90,57,576	31,31,39,104	18,46,29,570

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1938-39—cont.

64

APPENDIX I

Name of works.	Financial results of the year 1938-39.										Percentage of working receipts [column (11) to column (12)]
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay [column (7)].	Interest.	Net profit.	Net loss.	Area irrigated.	Percentage of working receipts [column (11) to column (12)]	Net loss.	Area irrigated.	Percentage of working receipts [column (11) to column (12)]
RS.	RS.	RS.	PER CENT.	RS.	RS.	RS.	ACRES.	PER CENT.	RS.	ACRES.	PER CENT.
A. IRRIGATION WORKS.											
1. PRODUCTIVE WORKS—cont.											
1. Cauvery delta system..	11,99,012	3,30,268	8,68,744	10.53	3,57,339	5,11,105	229,707	27.54	..	229,707	27.54
2. Srivakuntam anicut system..	1,28,784	82,792	45,992	2.59	75,036	20,014	20,102	64.29	..	20,102	64.29
3. Godavari delta system..	46,40,852	12,79,016	33,60,836	17.75	7,58,220	20,08,716	965,800	27.54	..	965,800	27.54
4. Mahanadi anicut system..	10,920	19,021	8,101	9.29	3,819	11,920	4,087	174.19	..	4,087	174.19
5. Tapti anicut system..	43,751	9,136	34,615	19.51	7,437	27,128	7,480	20.88	..	7,480	20.88
6. Kallakurichi channel..	28,378	15,286	13,092	7.25	7,919	..	6,300	53.87	..	6,300	53.87
7. Vardhaculam anicut system..	17,775	28,121	10,346	9.56	4,080	15,032	6,011	157.15	..	6,011	157.15
8. Chembarambakkam tank..	22,812	3,459	19,353	2.53	20,311	9,958	5,402	15.16	..	5,402	15.16
9. Marudur anicut system..	64,041	18,500	45,541	7.75	2,042	42,002	12,558	28.88	..	12,558	28.88
10. Pennar river canals system..	5,11,740	1,24,948	3,86,792	5.55	2,67,015	1,19,777	66,045	24.42	..	66,045	24.42
11. Atankola channel..	16,185	5,220	10,965	7.58	6,335	4,621	2,007	32.31	..	2,007	32.31
12. Tirukoyilur anicut system..	11,090	74,122	63,023	15.79	17,514	..	80,537	607.83	..	80,537	607.83
13. Shabatope anicut system..	1,35,679	85,045	50,634	4.59	40,345	3,689	35,917	63.12	..	35,917	63.12
14. Cheyyar anicut system..	24,487	50,031	25,544	5.84	28,016	55,160	11,424	228.82	..	11,424	228.82
15. Gumbam tank..	6,383	4,045	2,338	2.71	3,779	1,441	7,255	63.37	..	7,255	63.37
16. Ponnai anicut system..	26,194	47,690	21,496	7.07	13,380	34,776	5,765	182.06	..	5,765	182.06
17. Periyar anicut system..	6,66,578	1,72,245	4,94,333	4.56	4,70,908	23,425	96,668	25.84	..	96,668	25.84
18. Kistna delta system..	35,38,104	9,92,532	25,45,572	12.12	9,02,397	17,03,175	771,314	28.36	..	771,314	28.36
19. Nandiyar channel system..	11,450	3,802	7,648	11.64	2,815	4,803	3,671	33.21	..	3,671	33.21
20. Chicacole Minor river system..	35,713	40,106	10,453	3.01	12,519	22,072	14,837	129.27	..	14,837	129.27
21. Lower Coleroon anicut system..	3,20,367	1,42,220	1,78,147	5.93	1,31,104	47,043	78,953	44.39	..	78,953	44.39
22. Kistna East Bank canal extension scheme..	3,80,041	67,171	2,92,870	5.14	2,49,644	43,226	52,016	18.66	..	52,016	18.66
23. Toludur Reservoir system..	90,907	70,935	20,522	0.78	1,06,842	..	14,787	77.35	..	14,787	77.35
24. Polavaram island project..	88,033	25,318	62,715	3.70	75,070	12,355	17,766	28.76	..	17,766	28.76
25. Cauvery-Mettur project..	12,20,107	3,21,824	8,98,283	1.36	29,17,443	20,19,160	93,936	26.38	..	93,936	26.38
26. Kattal scheme..	78,593	46,769	31,824	0.79	1,75,198	1,43,364	25,395	59.50	..	25,395	59.50
Total, A. Irrigation, productive Works											

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1938-39—cont.

65

APPENDIX

65

Name of works.	General financial results to end of 1938-39.										Total sum-at-charge [column (7) plus column (8)]
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
Mileage in operation.	Mileage in operation.	Estimated cost of construction (direct and indirect).	Date when system first came into operation.	Total capital outlay (direct and indirect).	Accumulated arrears of interest.	Accumulated surplus revenues.	Net loss.	RS.	RS.	RS.	RS.
Miles.	Miles.	RS.	DATE.	DATE.	DATE.	DATE.	DATE.	DATE.	DATE.	DATE.	DATE.
A. IRRIGATION WORKS											
1. UNPRODUCTIVE WORKS.											
1. Kurnool-Cuddapah canal.	417-5/8	2,33,87,114	Not known.	1882-83	2,33,87,114	4,18,85,803	6,52,72,917	..	..	..	..
2. Barur tank..	11	1,62,037	31-3-1891	1887-88	4,52,837	4,88,815	8,90,552	..	..	..	..
3. Vallur anicut..	5-5/8	76,282	31-3-1893	..	76,282	38,010	1,14,892	..	..	..	..
4. Madras Water-supply and Irrigation system..	11 1/2	18,68,018	1893	..	18,68,018	28,28,059	46,96,077	..	..	..	..
5. Polandur anicut..	30	6,92,074	31-3-1896	..	6,92,074	1,40,001	11,40,079	..	..	..	..
6. Palar anicut system..	150	24,91,967	1901-02	1898-99	21,81,046	2,40,361	30,21,447	..	..	..	..
7. Munivern system..	60 1/2	6,09,434	31-3-1903	1902-03	6,09,434	1,15,762	8,88,691	..	..	..	..
8. Doodapad tank..	..	1,40,004	31-3-1907	1912-13	1,40,004	1,37,762	9,27,766	..	..	..	..
9. Vour tank..	..	63,353	31-3-1907	1898-99	63,353	4,7,751	1,11,104	..	..	..	..
10. Sallur system..	12	4,64,727	31-3-1907	1912-13	4,64,727	7,23,198	11,02,925	..	..	..	..
11. Annakur tank..	..	1,25,403	31-3-1907	1912-13	1,25,403	1,01,937	2,27,385	..	..	..	..
12. Jangamakeswarapuram tank..	..	71,064	31-3-1908	1912-13	71,064	64,472	1,35,136	..	..	..	..
13. Anamasandram Bera-peru tank..	..	73,573	31-3-1910	1911-12	73,573	81,522	1,55,095	..	..	..	..
14. Hatturam tank..	..	3,11,883	31-3-1911	1910-11	3,11,883	2,57,418	5,69,301	..	..	..	..
15. Ponnai tank..	..	2,18,619	31-3-1911	1910-11	2,18,619	2,43,324	4,61,973	..	..	..	..
16. Markapur tank..	..	1,29,340	31-3-1911	1909-10	1,29,340	1,03,633	2,32,973	..	..	..	..
17. Nakkavali river system..	64 1/2	17,66,414	31-12-1913	1909-10	17,66,414	4,21,536	21,87,950	..	..	..	..
18. Venkatapuram tank..	31	3,84,921	31-3-1918	1921-22	3,84,921	3,50,308	7,35,229	..	..	..	..
19. Vellankur tank..	..	2,65,491	31-3-1919	1921-22	2,65,491	2,21,851	4,87,342	..	..	..	..
20. Vellankur tank..	..	2,69,707	31-3-1919	1920-21	2,69,707	1,87,468	4,57,175	..	..	..	..
21. Sillanpatti Reservoir..	..	3,39,276	31-6-1919	1924-25	3,39,276	2,86,903	6,26,179	..	..	..	..
22. Sillanpatti tank..	1 1/2	8,04,456	31-10-1919	1921-22	8,04,456	6,70,823	14,74,309	..	..	..	..
23. Nagavaram anicut and supply channel..	2	1,02,890	31-12-1919	1920-21	1,02,890	69,058	1,79,548	..	..	..	..
24. Mopad Reservoir system..	16-7/8	22,90,575	30-4-1921	1921-22	22,90,575	17,78,034	40,68,609	..	..	..	..
25. Kalliyampalayam anicut..	10-3/8	1,11,074	31-3-1922	1924-25	1,11,074	1,12,941	2,24,015	..	..	..	..
26. Tipparayan project..	..	5,92,024	In progress.	In progress.	5,79,871	1,28,121	7,07,992	..	..	..	..
27. Basavanahalli channel..	..	5,92,100	Do.	Do.	5,89,780	3,63,387	9,53,167	..	..	..	..
28. Duvvalur project..	..	1,62,075	Do.	Do.	1,10,400	368	11,408	..	..	..	..
Total, A. Irrigation—2. Unproductive Works											
881	677-3/8	3,88,80,485	..	..	3,86,85,996	5,28,70,959	9,15,50,955	..	..	..	..
Total, A. Irrigation Works											
4,768	11,210 1/4	19,84,29,672	..	..	19,42,57,990	8,10,28,535	27,61,86,525	..	..	..	..

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1938-39—cont.

Number of works.	Name of works.	Financial results of the year 1938-39.									
		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.	Net profit.	Net loss.	Area irrigated.	Percentage of working expenses to receipts [column (12) to (11)].
(1)	(2)	RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	(16)	(15)
A. IRRIGATION WORKS											
—cont.											
2. UNPRODUCTIVE WORKS											
—cont.											
1	Kurool-Cuddapah canal	2,02,509	1,33,742	1,53,707	0.68	0.24	10,49,115	..	8,90,348	74,406	45.72
2	Barur tank	19,342	15,746	3,506	0.80	0.30	10,264	..	15,068	3,670	31.41
3	Valur aicut	..	3,395	..	..	..	3,346	..	14,038	902	46.53
4	Madras Water-supply and Irrigation system.	30,823	13,540	20,383	1.41	0.56	73,209	..	46,916	868	33.02
5	Pelandur aicut	16,307	10,080	3,813	0.52	..	23,949	..	32,562	10,673	122.07
6	Palar aicut system	1,39,073	87,218	51,855	2.00	1.72	1,06,005	..	54,150	28,930	62.71
7	Muniyeri system	42,151	12,288	29,863	4.00	3.36	20,043	3,320	..	8,869	29.15
8	Dondapad tank	1,827	268	1,559	1.11	0.48	5,615	..	4,056	465	14.74
9	Yerur tank	..	6,374	7,785	12.20	7.01	2,778	..	10,563	..	..
10	Selluru system	1,411	4,104	2,520	0.54	0.21	20,120	..	22,640	480	239.09
11	Aimakar tank	1,684	1,377	231	0.18	0.10	5,033	..	4,807	494	85.63
12	Jangamaheswarapuram tank	360	1,030	..	0.70	..	2,756	..	3,426	105	286.11
13	Anamasandram Bera-peru tank	..	..	..	..	..	..	..	..	..	..
14	Ha Jouran tank	3,729	210	3,516	..	2.27	3,226	..	6,742	101	5.64
15	Poncalur tank	3,395	639	2,706	0.87	0.43	12,545	..	9,839	827	20.29
16	Markapur tank	3,723	1,041	2,052	0.95	0.45	8,694	..	6,902	757	44.08
17	Nagavalli river system.	5,609	4,705	904	0.70	0.39	5,602	..	4,698	1,422	83.88
18	Venkatapuram tank	80,509	28,007	57,502	3.25	2.63	77,286	..	19,784	12,309	28.58
19	Hyvanas tank	1,312	749	5,563	0.13	0.08	16,751	..	10,188	554	37.08
20	Vellam tank	5,159	1,704	3,455	1.30	0.71	11,448	..	7,993	33.03	..
21	Panipatti reservoir	3,047	2,750	297	0.11	0.06	10,764	..	14,750	607	90.25
22	Siddapur tank	..	..	..	..	..	35,597	..	31,026	1,005	29.80
23	Nagavaram aicut and supply channel	5,229	1,558	3,671	0.46	0.25	4,828	..	4,223	..	53.92
24	Mopad Reservoir	1,302	702	600	0.55	0.33	98,736	..	65,243	5,236	22.29
25	Kanniyampalayam system	43,100	9,607	33,493	1.40	0.82	4,825	..	2,149	..	32.10
26	Tippayyapalem project.	4,000	1,324	2,676	2.41	0.77	25,198	..	19,762	479	5.01
27	Basavanahalli channel	5,733	287	5,446	0.94	..	26,151	..	35,231	..	1,238.87
28	Duvvalur project	71	9,151	9,080	1.54	0.95	300	..	300	..	..
Total, A. Irrigation—											
2. Unproductive Works..											
Total, A. Irrigation Works ..		7,04,499	3,56,726	3,47,773	0.90	0.38	16,99,019	..	13,51,246	153,440	50.64
		1,40,03,187	43,09,057	96,59,139	4.96	3.40	82,66,892	12,72,902	..	..	..

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1938-39—cont.

Number of works.	Name of works.	General financial results to end of 1938-39.									
		Mileage in operation	Estimated cost of construction (direct and indirect).	Date of completion of work.	Date when system first came into operation.	Total capital (direct and indirect).	Accumulated arrears of interest.	Accumulated surplus revenues.	Total sum-at-charge [column (7) plus column (8)].		
(1)	(2)	MILES.	(5)	(6-a)	(6-b)	RS.	RS.	RS.	(10)	RS.	RS.
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.											
2. UNPRODUCTIVE WORKS.											
1	Vedaranyam canal	31½	1,36,432	31-3-1893	..	1,30,432	7,45,777	..	8,82,209	..	..
2	Buckingham canal	262	90,84,027	March 1897	..	90,84,027	2,28,44,156	..	3,19,28,183	..	..
Total, 2. Unproductive Works ..		293½	92,20,459	..	..	92,20,459	2,35,89,933	..	3,28,10,392	..	..
Total, B. Navigation, etc., Works ..		293½	92,20,459	..	..	92,20,459	2,35,89,933	..	3,28,10,392	..	..
Total, Construction of Irrigation, etc., Works ..		5,061½	20,70,50,131	..	..	20,34,78,449	10,55,18,468	34,31,89,104	30,89,96,917	..	..

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1938-39—*cont.*

Financial results of the year 1933-39.																			
Number of works.		Percentage of working expenses to receipts [columns (12) to (11)].																	
Name of works.		Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay [column (7)].	Percentage on sum-charge at-charge [column (10)].	Interest.	Net profit.	Net loss.	Area irrigated.	(18)	(17)	(16)	(15)	(14)	(13)	(12)	(11)	
		RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	ACS.	(19)	(20)	PER CENT.						
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS—cont.																			
2. UNPRODUCTIVE WORKS—cont.																			
1	Vedaranyam canal	726	8,232	7,506	— 5.50	— 0.85	6,971	..	13,477	..								1,133.86	
2	Buckingham canal	1,07,314	1,43,136	40,822	— 0.45	— 0.13	3,80,707	..	4,27,529	..								138.04	
Total, 2. Unproductive Works		1,08,040	1,53,368	48,328	— 0.52	— 0.15	3,92,678	..	4,41,006	..								144.73	
Total, R. Navigation, etc., Works		1,08,040	1,53,368	48,328	— 0.52	— 0.15	3,92,678	..	4,41,006	..								144.73	
Total, Construction of Irrigation, etc., Works.		1,41,16,227	45,25,425	95,90,802	4.71	3.10	87,59,510	8,31,292	..	2,71,989								32.06	

C-III.—Demands and Realizations during every year—*cont.*
Irrigation, Navigation, Embankment and Drainage Works (classified as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept.

Works or systems.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Rs.	Balance of demands realized at the commencement of the year.	Demand for 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.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A. IRRIGATION WORKS.										
I. PRODUCTIVE WORKS.										
1	Cauvery delta system ..	..	52,55,835	52,55,835	10,94,552	{ 88,605	..	{ 88,605	88,605	11,99,012
2	Sivakuntam ancient system ..	..	2,39,850	2,39,850	32,006	40,72,675	..	40,72,675	28,73,663	1,28,784
3	Godavari delta system ..	..	58,88,107	58,88,107	11,17,555	2,07,784	..	2,07,784	70,000	46,46,852
4	Nelamattur ancient system ..	..	1,26,841	1,26,841	11,921	47,70,852	..	47,70,852	1,24,000	10,920
5	Thadupalli channel system ..	..	1,38,335	1,38,335	18,884	14,920	..	14,920	4,000	43,451
6	Kallurayan channel system ..	..	1,28,188	1,28,188	14,810	1,19,751	..	1,19,751	76,000	28,378
7	Vridhachalan ancient system ..	..	42,863	42,863	16,594	1,13,378	..	1,13,378	85,000	17,775
8	Chembramba kam tank system.	..	61,799	61,799	22,987	26,275	..	26,275	8,500	22,812
9	Naradur ancient system ..	..	2,09,173	2,09,173	30,129	38,812	..	38,812	16,000	64,044
10	Pennar river canals system ..	..	8,81,901	8,81,901	1,14,161	1,79,044	..	1,79,044	2,56,000	5,11,740
11	Arkenko a channel system ..	..	40,397	40,397	5,212	7,67,740	..	7,67,740	19,000	16,185
12	Tirukkoyilur ancient system ..	..	1,32,046	1,32,046	60,947	35,185	..	35,185	60,000	11,099
13	Shadstone ancient system ..	..	1,88,118	1,88,118	3,439	1,55,679	..	1,55,679	20,000	1,35,679
14	Cheyyar ancient system ..	..	1,13,119	1,13,119	49,632	63,487	..	63,487	39,000	24,487
15	Cumbam tank system ..	..	40,879	40,879	4,496	36,383	..	36,383	30,000	6,383
16	Poimay ancient system ..	..	1,10,923	1,10,923	46,729	64,194	..	64,194	38,000	26,194
17	Periyar system ..	..	10,84,037	10,84,037	2,13,609	8,70,578	..	8,70,578	2,04,000	6,66,578
18	Kistna delta system ..	..	49,56,343	49,56,343	13,47,239	36,09,104	..	36,09,104	71,000	35,38,104
19	Nandiyar channel system ..	..	33,851	33,851	5,411	28,450	..	28,450	17,000	11,450
20	Chikacole minor rivers system.	..	1,90,921	1,60,921	30,205	1,30,713	..	1,30,713	95,000	35,713
21	Lower Coleroon ancient system.	..	6,52,729	6,52,729	1,77,362	4,76,367	..	4,76,367	1,55,000	3,20,367
22	Kistna East Bank canal extension scheme ..	..	4,71,000	4,71,000	90,659	3,80,341	..	3,80,341	20,300	3,60,041
23	Toludur reservoir system ..	..	1,12,284	1,12,284	11,087	1,01,197	..	1,01,197	10,590	90,607
24	Polavarani Island project ..	..	88,059	88,059	926	88,033	..	88,033	90,371	12,29,107
25	Cauvery-Mettur project ..	..	13,58,200	13,58,200	38,122	13,20,078	..	13,20,078	2,54,000	78,593
	Kattalai scheme ..	..	3,87,625	3,87,625	55,032	3,32,593	..	3,32,593		
	Total, A. Irrigation Works—	..	2,28,04,679	2,28,04,679	46,42,359	1,81,62,320	{	1,81,62,320	47,70,024	1,33,03,698
	1. Productive Works ..	..						88,605	88,605	

C-III.—Demands and Realizations during the year 1938-39 in the Madras Presidency—cont.

Irrigation, Navigation, Embankment and Drainage Works (classed as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept—cont.

70

Works or systems.	(1) Balance of demands un- realized at commencement of the year.	(2) Demand for the year.	(3) Total.	(4) Deduct remissions including cash refunds.	(5) Net total.	(6) Deduct amount unrealized at close of the year.	(7) Actual total receipts of the year.	(8) Deduct share due to old irrigation, improvements.	(9) Net revenue due to improvements.	(10)
A. IRRIGATION WORKS—cont.										
2. UNPRODUCTIVE WORKS.										
1 Kurnool-Cuddanah canal ..	..	Rs. 3,52,039	Rs. 3,52,039	Rs. 23,058	Rs. 3,28,981	..	Rs. 3,28,381	Rs. 35,872	Rs. 2,92,509	
2 Barur tank ..	..	27,534	27,534	3,692	23,842	..	23,842	5,000	19,342	
3 Vallur anicut system ..	..	8,328	8,328	10,625	..	..	..	..	..	
4 Madras Water-supply and Irrigation system ..	..	72,450	72,450	21,527	50,923	..	50,923	11,000	39,923	
5 Pelandoral anicut system ..	..	58,427	58,427	39,060	19,367	..	19,367	3,000	16,367	
6 Palar anicut system ..	..	3,53,348	3,53,348	89,275	2,64,073	..	2,64,073	1,25,000	1,39,073	
7 Muniyern anicut system ..	..	53,810	53,810	9,158	44,651	..	44,651	2,500	42,151	
8 Dondapad tank ..	..	1,965	1,965	1,438	1,827	..	1,827	..	1,827	
9 Yerru tank ..	..	3,256	3,256	4,242	..	..	..	425	..	
10 Sagheru system ..	..	21,400	21,400	2,016	19,384	..	19,384	17,800	1,584	
11 Anakur tank ..	..	1,972	1,972	364	1,608	..	1,608	..	1,608	
12 Jangamahevarapuram tank ..	..	1,036	1,036	176	860	..	860	500	360	
13 Anamasamudram—Dera- petu tank ..	..	2,800	3,900	4,016	129	..	129	..	129	
14 Halpuram tank ..	..	3,743	3,743	318	3,425	..	3,425	3,000	425	
15 Ponnalur tank ..	..	4,577	4,577	384	4,193	..	4,193	..	4,193	
16 Markapur tank ..	..	8,223	8,223	834	7,389	..	7,389	..	7,389	
17 Negavalli river system ..	..	1,34,250	1,34,250	16,341	1,17,909	..	1,17,909	2,130	1,15,779	
18 Bhavanasi tank ..	..	1,518	1,518	42	1,476	..	1,476	37,400	80,500	
19 Bhavanasi tank ..	..	5,207	5,207	48	5,159	..	5,159	164	5,000	
20 Yellatur tank ..	..	3,818	3,818	771	3,047	..	3,047	..	3,047	
21 Panjapatti reservoir project. ..	..	5,229	5,229	..	5,229	..	5,229	..	5,229	
22 Nagavaram anicut and supply channel ..	..	3,915	3,915	357	3,558	..	3,558	2,956	562	
23 Morad reservoir system ..	..	44,764	44,764	1,231	43,533	..	43,533	433	43,100	
24 Kanniyampalayam anicut. ..	..	4,000	4,000	..	4,000	..	4,000	..	4,000	
25 Tirupayapalayam project ..	..	5,733	5,733	..	5,733	..	5,733	..	5,733	
26 Basavanna channel ..	..	71	71	..	71	..	71	..	71	
27 Duvveleru project ..	..	..	..	..	..	..	..	..	..	
Total, A. Irrigation Works— 2. Unproductive Works.	..	11,84,503	11,84,503	2,28,424	9,56,079	..	9,56,079	..	..	

APPENDIX I

B. NAVIGATION, EMBANK- MENT AND DRAINAGE WORKS.

2. UNPRODUCTIVE WORKS.										
1 Vedaranniyam canal ..	..	728	728	2	726	..	726	..	726	
2 Buckingham canal ..	..	1,07,354	1,07,354	40	1,07,314	..	1,07,314	..	1,07,314	
Total, B. Navigation, etc., Works— 2. Unproductive Works..	..	1,08,082	1,08,082	42	1,08,040	..	1,08,040	..	1,08,040	
Total, B. Navigation, etc., Works ..	..	1,08,082	1,08,082	42	1,08,040	..	1,08,040	..	1,08,040	
Total, Construction of Irrigation, etc., Works ..	..	2,40,97,264	2,40,97,264	48,70,825	1,92,26,439	..	1,92,26,439	50,21,604	1,41,10,227	

APPENDIX I

71

Revenue assessed during the year.

Works or systems.	Capital outlay (direct and indirect) to end of the year.	Direct revenue.					Less refunds of revenue.	Grand total.
		Owner's rate.	Plantations.	Navigation.	Miscellaneous.	Total.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(10)
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1 Cauvery delta system	82,53,737	..	5,574	616	8,209	14,429	88,008	88,008
2 Srivalkuntam anicut system ..	17,75,083	..	1,248	..	7,085	8,333	40,72,075	40,72,075
3 Godavari delta system	1,89,06,784	..	4,003	1,75,248	49,983	2,20,294	2,97,784	2,97,784
4 Mahamutur anicut system	87,184	..	52	..	514	566	45,02,023	47,70,852
5 Thalappali channel system	1,77,446	..	1,270	..	178	1,448	14,354	14,920
6 Kalingarayan channel system ..	1,80,186	..	1,636	..	81	1,722	1,18,303	1,19,751
7 Vriddhachalam anicut system ..	1,08,204	..	363	..	21	384	1,11,060	1,13,378
8 Chembrambakkam tank system ..	7,81,143	..	..	..	123	120	25,891	26,275
9 Marudur anicut system	60,122	..	177	..	940	1,117	38,083	38,812
10 Pennar river canals system	69,09,033	..	208	444	2,202	2,614	1,77,927	1,79,044
11 Arankola channel system	1,44,445	..	281	..	21	292	7,65,127	7,67,740
12 Tirukkoyilur anicut system	3,99,190	..	676	..	182	858	34,883	35,185
13 Shitalope anicut system	10,89,561	..	503	..	203	706	70,341	71,090
14 Cheyyar anicut system	5,39,999	..	197	..	1,072	1,269	1,51,973	1,55,679
15 Cumbum tank system	89,373	..	..	..	..	..	62,218	63,457
16 Polhey anicut system	3,03,918	..	106	..	173	279	30,383	30,383
17 Periyar project system	1,08,35,654	..	2,738	730	8,316	11,814	65,015	64,194
18 Kistna delta system	2,15,03,749	..	3,404	1,14,493	55,129	1,73,026	8,68,837	8,70,578
19 Nandiyar channel system	65,715	..	321	..	107	428	34,36,880	36,00,104
20 Chitacole minor rivers system ..	2,89,226	..	..	..	89	89	23,022	28,450
21 Lower Coleroon anicut system ..	30,01,069	..	2,457	..	2,067	4,554	1,30,624	1,30,713
22 Kistna East Bank canal extension scheme.	50,95,723	..	..	378	3,367	3,745	4,70,881	4,75,367
23 Toludur reservoir system	26,22,233	..	267	..	88	355	3,76,597	3,80,341
24 Polavarum island project	16,06,575	..	127	..	102	229	1,00,842	1,01,197
25 Cauvery-Mettur project	6,59,41,082	..	3,028	22	13,137	15,181	87,804	88,933
26 Rattahai scheme project	49,14,735	..	1,940	20	1,397	3,363	13,03,902	13,20,078
Total, A. Irrigation Works—1. Productive Works	15,55,71,904	..	30,636	2,01,992	1,54,912	4,77,540	3,29,233	3,32,593
							1,70,18,100	1,80,73,712
							88,608	88,608

2. Unproductive Works.

1 Kurnool-Cuddapah canal	2,33,87,114	..	..	72	5,711	5,782	3,24,273	3,28,331
2 Barur tank	4,52,037	..	..	..	1,068	1,718	22,124	23,842
3 Vallur anicut	76,252	..	..	..	161	161	2,458	2,619
4 Madras water-supply and irrigation system	18,68,918	..	..	..	52,703	52,703	1,802	50,923
5 Polandorat anicut system	6,92,074	..	..	..	187	1,020	18,317	19,307
6 Palur anicut system	24,81,089	..	..	..	1,139	1,723	2,62,350	2,64,073
7 Muniyeri system	6,00,145	..	..	..	928	928	43,723	44,651
8 Dondapad system	1,40,004	..	..	..	..	..	1,827	1,827
9 Yerur tank	63,353	..	..	..	..	..	..	..
10 Sagileru system	4,64,727	..	..	..	..	..	..	..
11 Atmakur tank	1,25,403	..	..	..	..	..	..	..
12 Jangamaheswarapuram tank	71,664	..	..	..	..	..	..	..
13 Anamasamudram-Deraperu tank ..	73,573	..	..	..	..	..	..	..
14 Halipuram tank	3,11,383	..	..	..	..	..	..	..
15 Ponnalur do.	2,18,049	..	..	..	..	..	..	..
16 Markapur do.	1,20,340	..	..	..	..	..	..	..
17 Nagavalli river system	17,64,833	..	..	..	..	..	..	..
18 Venkatapuram tank	8,84,021	..	..	..	..	..	..	..
19 Bhavanasi tank	2,65,491	..	..	..	..	..	..	..
20 Yellanur tank	2,69,707	..	..	..	..	..	..	..
21 Panjapatli reservoir project	3,39,376	..	..	..	..	..	..	..
22 Siddapur tank	8,04,486	..	..	..	..	..	..	..
23 Nagavaram anicut and supply channel ..	1,00,800	..	..	..	..	..	..	..
24 Monad reservoir system	22,90,575	..	..	..	..	..	..	..
25 Kanniyampalayam anicut	1,11,074	..	..	..	..	..	..	..
26 Tirupavalem project	5,78,871	..	..	..	..	..	..	..
27 Basavanah channel	5,89,780	..	..	..	..	..	..	..
28 Duvaleru project	11,040	..	..	..	..	..	..	..
Total, A. Irrigation Works—2. Unproductive Works	3,86,85,096	..	1,492	78	67,883	69,453	8,88,314	9,50,079
Total, A. Irrigation Works	10,42,57,990	..	32,128	2,92,070	2,22,795	5,40,993	1,85,06,423	1,90,29,791
							88,608	88,608

B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.

2. UNPRODUCTIVE WORKS.

1 Vedaramnam canal	1,36,432	..	14	674	40	728	..	716
2 Buckingham canal	90,84,027	..	950	1,02,648	3,756	1,07,354	..	1,07,314
Total, B. Navigation, etc., Works—2. Unproductive works	92,20,459	..	964	1,03,322	3,796	1,09,082	..	1,09,040
Total, B. Navigation, etc., Works	92,20,459	..	964	1,03,322	3,796	1,09,082	..	1,09,040
Total, Construction of Irrigation, etc., works.	20,34,78,449	..	33,092	3,95,392	2,26,591	6,55,075	1,85,06,423	1,91,37,831
							88,608	88,608

C-IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classified as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1938-39 based on the assessment for the year—cont.

74

Works or systems.	Revenue assessed during the year—cont.				Working expenses.		Net revenue of the year.		Percentage on capital outlay to end of the year (improvements only).
	Deduct share due to old irrigation.	Total revenue due to improvements.	Total charges (direct and indirect).		Deduct old maintenance and charges.	Total working expenses on improvements.	Total.	Due to improvements.	
			(11)	(12)						(13)	(14)	(15)	(16)	(17)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS—cont.									
1. PRODUCTIVE WORKS—cont.									
1 Cauvery delta system	88,608	11,99,012	11,57,353	8,27,085	3,30,268	20,15,322	8,63,744	10.53	
2 Srivaikuntam ancient system	29,73,663	1,28,784	90,573	7,781	82,792	1,17,211	45,092	2.59	
3 Godavari delta	1,24,000	40,16,882	12,70,914	..	12,70,914	34,90,936	33,60,936	17.75	
4 Mahanadi	4,000	10,920	13,925	904	19,921	5,005	8,101	0.29	
5 Gadapalli channel	76,000	43,723	20,156	4,822	16,138	1,05,003	34,015	19.51	
6 Kallangirayam channel	88,000	25,775	29,195	5,170	15,286	92,022	13,092	7.25	
7 Vridhachalam ancient	16,000	2,775	9,154	..	28,121	1,846	10,346	9.56	
8 Chembambakkam tank	18,000	22,812	9,070	6,097	3,450	29,256	19,353	2.53	
9 Marudur ancient	1,15,000	94,044	95,070	3,678	18,500	153,905	45,544	75.75	
10 Pennar river canals	2,36,000	5,11,740	1,64,926	39,578	1,94,948	6,02,814	3,86,792	5.55	
11 Arankota channel	60,000	16,185	6,380	1,157	5,920	10,950	7.58		
12 Tirukottiyur ancient	39,000	1,35,070	81,123	7,091	74,122	10,024	63,023	15.79	
13 Shattapote	30,000	24,487	60,183	2,332	55,045	67,701	50,034	4.50	
14 Chayyar	30,000	6,385	51,733	4,162	86,031	8,904	31,544	5.84	
15 Pambam tank	30,000	20,383	47,690	1,310	4,045	31,028	2,338	2.71	
16 Policy ancient	2,04,000	6,66,578	2,08,483	36,238	47,690	12,461	21,496	7.07	
17 Periyar	71,000	35,38,104	9,32,532	..	1,72,945	6,62,095	4,94,333	4.56	
18 Kistna delta	17,000	11,450	9,820	4,488	9,820	20,70,572	20,05,572	12.12	
19 Nandiyar channel	95,000	32,713	52,690	6,500	40,166	78,047	7,648	3.71	
20 Chicaole minor rivers	1,55,000	3,20,807	1,62,555	10,335	40,166	3,32,832	1,78,147	5.93	
21 Lower Coleroon ancient	20,300	3,60,041	93,592	10,421	67,171	2,96,749	2,92,870	5.14	
22 Kistna East Bank canal extension scheme.	10,590	90,697	70,085	..	70,085	31,112	20,592	0.78	
23 Toludur reservoir system	..	88,033	25,318	..	25,318	62,715	62,715	2.70	
24 Polavarum Island project	..	12,20,107	3,38,008	16,184	3,38,008	9,82,070	8,98,283	1.36	
25 Cavery-Mettur	..	78,593	1,14,623	67,866	40,759	2,17,968	31,834	0.79	
26 Kattalai scheme	..	..	..	..	..	..	..	..	
Total, A. Irrigation Works—1. Productive Works	47,70,024	1,33,03,688	50,88,575	10,76,244	40,12,331	1,29,85,137	92,91,357	5.97	

2. UNPRODUCTIVE WORKS—cont.							
1 Kurnool-Cuddapah canal	35,872	2,92,599	1,33,975	4,933	1,33,742	1,89,708	0.98
2 Barar tank	4,500	10,312	15,749	1,477	15,749	8,996	0.30
3 Vallur ancient	5,000	7,297	4,872	..	3,305	10,892	14.02
4 Madras water-supply and Irrigation system	11,000	39,923	17,849	4,306	13,540	26,353	1.47
5 Tolandrai ancient system	3,000	16,367	20,146	109	19,980	3,613	0.52
6 Palar ancient system	1,25,000	1,39,073	91,215	3,997	87,218	51,856	2.09
7 Munivaru system	2,500	42,151	12,587	299	12,288	29,843	4.90
8 Dondapad system	..	1,827	268	..	268	1,559	1.11
9 Yeru tank	425	1,411	6,374	3,605	6,374	7,785	12.29
10 Sagluru system	17,800	1,531	7,709	..	4,104	11,675	0.54
11 Almarur tank	..	1,608	1,377	..	1,377	231	0.78
12 Jangamahaswaram tank	500	3,395	650	890	..	670	0.93
13 Annamadu-Beraperu tank	3,800	3,729	1,030	..	210	3,516	4.78
14 Halpuram tank	..	9,723	1,641	..	689	2,708	0.87
15 Ponnalur	9,130	5,609	5,105	400	4,705	2,082	0.95
16 Markapur	37,400	80,509	27,048	4,041	23,097	2,634	0.70
17 Nageswari river system	104	5,312	740	..	90,861	57,502	3.28
18 Venkatapuram tank	..	5,156	1,704	..	727	563	0.15
19 Bhavanasi tank	..	3,047	2,750	..	1,704	3,455	1.30
20 Yellaur tank	..	..	..	..	2,750	297	0.11
21 Pappapatti reservoir project	..	5,229	1,558	..	1,558	3,671	0.46
22 Siddapur tank	2,256	1,302	702	..	702	600	0.55
23 Narayan ancient and supply channel	433	43,100	9,607	..	9,607	33,493	1.46
24 Monad reservoir system	..	4,000	1,324	..	1,324	2,676	2.41
25 Kanniyapalayam ancient	..	6,733	1,287	..	1,287	5,446	0.94
26 Tippayam project	..	71	9,151	..	..	9,080	1.54
27 Bhavanasi channel	..	..	..	..	..	..	..
28 Duvvuru project	..	..	..	..	..	..	..
Total, A. Irrigation Works—2. Unproductive works	2,51,580	7,04,409	3,80,810	24,084	3,50,730	3,47,773	0.90
Total, A. Irrigation Works	50,21,604	1,40,08,187	54,69,385	11,00,328	1,35,80,406	96,39,130	4.96

B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS—cont.

2. UNPRODUCTIVE WORKS—cont.

1 Vedaranyam canal	736	8,232	1,48,136	..	8,232	7,506	5.50
2 Buckingham canal	1,07,314	1,07,314	1,48,136	..	1,48,136	40,522	0.45
Total, B. Navigation, etc., works—2. Unproductive Works	1,08,040	1,56,363	1,56,363	..	1,56,363	48,828	0.52
Total, B. Navigation, etc., Works	1,08,040	1,56,363	1,56,363	..	1,56,363	48,828	0.52
Total Construction of Irrigation, etc., Works	50,21,604	1,41,10,227	56,25,753	11,00,328	1,35,12,078	95,90,502	4.71

75

D-I.—Statement of traffic on the principal navigable canals in the Madras Presidency during the year 1938-39.

(1)	Length of canals open for navigation	(2)	Miles.	(3)	Kistna canals.	(4)	Kistna east bank canal.	(5)	Kurnool- Cuddapah canal.	(6)	Buckin- gham canal.	(7)	West coast canals.	(8)	Dumma- sudan canals.	(9)	Vedara- niyam canal.	(10)	Total.
Receipts—																			
Tolls																			
Boatage																			
Annual licence fees																			
Six-weeks' licence fees																			
Registration fees																			
Wharfage fees																			
Demurrage fees																			
Raft fees																			
Numbering fees																			
Fines																			
Ground rents																			
Miscellaneous																			
Refunds																			
Government boats and steamers																			
Boat rent																			
Total Receipts																			
Maintenance charges including special navigation establishment																			
Net revenue																			
Total number of boats plying cargo																			
Total number of boats plying passengers																			
Total tonnage, cargo boats																			
Total tonnage, passenger boats																			
Ton mileage, up																			
Ton mileage, down																			
Total																			
Estimated value of cargoes up																			
Estimated value of cargoes down																			
Total																			
Number of passengers																			
Rafts, tons, up																			
Rafts, tons, down																			
Total																			
Estimated value of rafts																			
Total																			

RS. A. P.

—during one year—

Godavari canals.

Kistna canals.

Description.	Total, Government and private.				Private.				Total, Government and private.			
	Quantity.			Value. RS.	Quantity. TONS.	Value. RS.	Quantity. TONS.	Value. RS.	Quantity.			
	Up. TONS.	Down. TONS.	Total. TONS.						Up. TONS.	Down. TONS.	Total. TONS.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
Boat traffic.												
Cotton, raw and manufactured.	599	744	1,343	11,37,953	1,343	11,37,953	87	122	209	1,37,324		
Woolen goods ..	2		2	4,325		4,325			6			
Dyes and tans ..	927	1,048	1,975	23,43,347	1,975	23,43,347	11	141	152	20,514		
Rice and paddy ..	127,303	52,400	179,772	1,48,05,825	179,772	1,48,05,825	77,382	23,608	106,060	81,21,620		
Other food-grains ..	3,737	24,510	28,247	37,56,093	28,247	37,56,093	5	99	104	19,43,268		
Hides and skins ..	13	36	49	51,711	49	51,711	1,072	106	1,178	1,07,291		
Liquors ..	24	9	33	34,023	33	34,023	939		939	9,03,109		
Metals ..	336	1,307	1,643	12,35,781	2,243	12,35,781	1,323	611	1,934	3,39,038		
Oils ..	5,377	11,301	16,708	58,55,508	16,708	58,55,508	3,749	4,911	8,660	30,39,060		
Oil-seeds ..	1,470	7,007	8,477	1,49,06,550	9,070	1,49,06,550	14,937	108,232	123,279	2,03,41,033		
Provisions ..	38,025	40,741	78,766	2,15,81,884	78,766	2,15,81,884	16,254	16,254	32,508	90,63,372		
Salt ..	8,300	3,035	11,335	6,95,461	11,401	6,95,461	4,622	1,207	5,829	3,01,059		
Spices ..	696	742	1,438	22,18,331	1,438	22,18,331	128	31	159	2,29,907		
Sugar and jaggery ..	3,902	6,236	10,138	17,02,318	10,138	17,02,318	1,369	1,093	2,462	3,65,116		
Tobacco ..	1,275	4,162	5,437	35,11,506	5,437	35,11,506	2,692	3,341	6,033	21,50,334		
Building materials ..	151,212	304,251	455,463	8,51,691	360,736	8,51,691	25,057	284,361	310,508	4,74,328		
Miscellaneous goods ..	18,561	23,061	41,622	32,09,803	41,622	32,09,803	15,125	15,523	30,653	16,98,870		
Timber ..	6,430	9,312	15,742	24,50,498	14,912	24,50,498	4,227	2,602	6,819	11,18,316		
Firewood ..	13,241	11,203	24,444	2,03,332	24,446	2,03,332	2,752	10,860	33,612	4,03,344		
Bamboos ..	104	17,001	17,105	8,55,250	17,705	8,55,250	6,252	5,525	11,777	5,88,869		
Coal and coke ..	544	684	1,228	42,030	1,223	42,030	183	12,496	12,679	4,40,265		
Jute ..	35		35	12,637	69	12,637	245	8	253	46,299		
Treasure ..												
Kerosene oil ..												
Cotton seeds ..												
Poles ..												
Scandlings ..												
Total, Boat traffic ..	381,809	520,378	902,187	6,87,31,583	807,480	6,87,31,583	202,263	505,203	707,466	5,27,78,091		
Raft traffic.												
Timber in logs ..	36	39,770	39,806	60,01,236	39,812	60,01,236	383	846	1,029	1,57,437		
Squared timber ..	95		95	19,475	95	19,475	2	53	55	11,275		
Sleepers, broad gauge ..												
Do. metre gauge ..												
Scandlings ..	71	659	730	1,52,570	730	1,52,570						
Poles ..	32	32	64	3,232	32	3,232						
Firewood ..	20	28,187	28,207	14,38,557	28,207	14,38,557	101	880	984	50,131		
Bamboos and reeds ..												
Total, Raft traffic ..	222	68,054	68,276	77,05,070	68,276	77,05,070	401	1,579	2,070	2,18,932		
Grand total ..	382,031	588,032	970,063	7,64,41,053	875,756	7,64,41,053	202,754	506,782	709,536	5,29,97,013		

[illegible]

E-1.—Statement of areas irrigated under irrigation works classed as Productive and Unproductive Capital and Revenue Accounts are kept in the Madras Presidency during the year 1938-39.

Area charged as irrigated in acres.							
Name of canal.	First crop.		Second crop.		Total.	Both seasons.	Percentage of double cropped area [columns (4) and (5) on the first crop area [columns (2) and (3)].
	Flow.	Lift.	Flow.	Lift.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	
Productive.							
1 Cauvery delta system ..	865,604	22,447	114,489	4,763	10,07,373	14,428	13.42
2 Srirangam ancient system ..	23,378	2,086	14,365	203	40,532	59.17	59.17
3 Godavari delta system ..	797,349	11,013	307,831	5,528	11,21,750	38.76	38.76
4 Mahanadi ancient system ..	15,017	565	1,877	181	17,010	6.75	6.75
5 Padmapalle channel ..	9,954	2,596	8,232	218	22,950	82.87	82.87
6 Kallagorayan channel ..	8,258	190	4,570	205	17,982	4.84	4.84
7 Vridhachalam ancient system ..	12,947	358	12,470	177	30,108	72.18	72.18
8 Chembarambakkam tank ..	17,163	3,288	1,460	259	1,07,079	1.04	1.04
9 Marudur ancient system ..	102,088	3,288	511	27	5,347	15	15
10 Pennur river canals system ..	4,640	199	3,252	169	29,786	12.98	12.98
11 Arankola channel ..	24,952	1,413	9,276	183	43,077	28.14	28.14
12 Trakkoyilur ancient system ..	32,960	632	6,563	271	28,014	32.27	32.27
13 Chayalope ancient system ..	20,314	806	4,592	30	10,245	82.50	82.50
14 Cheyyar ancient system ..	5,543	80	4,592	59	23,515	17.66	17.66
15 Cumbum tank ..	19,953	287	3,510	43	178,368	0.48	0.48
16 Polney ancient system ..	131,277	598	49,030	180	842,054	8.694	8.694
17 Periyar system ..	826,022	11,973	3,969	343	9,921	37.31	37.31
18 Kistna delta system ..	6,371	854	2,363	1,579	66,097	6.52	6.52
19 Nandivar channel system ..	60,176	1,877	2,465	669	123,383	11.70	11.70
20 Chicacole minor river system ..	106,513	4,304	689	2	61,016	457	457
21 Lower Coleroon ancient system ..	60,376	849	970	2	17,637	904	904
22 Kistna East Bank Canal extension scheme ..	16,531	134	4,721	5	17,766	8	8
23 Toludur reservoir project ..	13,011	29	20,194	738	164,923	85	85
24 Polavaram island project ..	139,470	4,521	12,049	314	61,605	4,985	4,985
25 Cauvery-Mettur project ..	46,440	2,202					
26 Kattalal scheme ..							
Unproductive.							
1 Kurnool-Cuddapah canal ..	70,573	692	11,340	96	82,001	4,170	10.07
2 Barur tank ..	4,434	32	5,430	12	5,430	21.94	21.94
3 Vallur ancient system ..	4,627	352	9	14	5,002	0.40	0.40
4 Madras water-supply and irrigation system ..	6,541	304	427	6	7,278	6.33	6.33
5 Pelandur ancient system ..	11,854	319	675	75	12,893	6.18	6.18
6 Palur ancient system ..	71,992	3,109	29,294	571	98,896	31.68	31.68
7 Muniyeru ancient system ..	9,045	49	355	20	9,469	409	409
8 Dondapad tank ..	356	..	99	..	455	..	..
9 Yerur tank ..	68	..	..	..	68	..	..

E-I.—Statement of areas irrigated under Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1938-39—*Cont.*

Name of canal.	Area charged as irrigated in acres.				Both seasons.	Total.	Percentage of double cropped area (columns (4) and (5)) on the first crop area (columns (2) and (3)).
	First crop.		Second crop.				
	Flow.	Lift.	Flow.	Lift.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	
<i>Unproductive—Cont.</i>							
10 Sagileru system	4,033	50	872	131	5,036	49	24 57
11 Atmakur tank	492	2	..	..	494	..	.. 23 4
12 Janamahaswarapuram tank	256	..	0	..	262	..	.. 0 11
13 Anamasundram-Beraperu tank	872	6	1	..	879	..	.. 6 85
14 Hojipuram tank	769	6	53	..	827	..	..
15 Pottalur tank	757	..	..	..	757	..	..
16 Marakapur tank	1,023	2	297	..	1,022	..	.. 18 28
17 Nagavalli river system	27,156	13 1/2	805	14	28,160	11	.. 3 40
18 Venkatapuram tank	250	..	122	..	372	..	.. 48 80
19 Bhavanasi tank	548	1	5	..	554	..	.. 0 31
20 Yelamur tank	594	..	13	..	607	..	.. 2 19
21 Panjapatli reservoir	..	..	..	..	..	2	..
22 Siddapur tank	772	1	232	..	1,005	..	.. 30 01
23 Nagavaram anicut and supply channel	580	4	78	2	664	54	.. 13 70
24 Mopad reservoir	5,034	3	199	..	5,236	41	.. 3 95
25 Kanniyampalayam anicut	..	..	..	..	..	..	..
26 Tippiyayapalem project	..	6	..	..	..	..	..
27 Basavannah channel	..	..	..	..	..	..	..
28 Duvvaleru project	..	..	..	..	..	..	..
First crop.							
Godavari delta	28th May to 30th November	..	..	..	..	..	..
Krishna delta and Krishna East Bank canal systems	11th June to 31st December	..	..	..	..	..	..
Penuar river canals	1st July to 31st December	..	..	..	..	..	..
Kurnool-Cuddapah canal	1st June to 30th November	..	..	..	..	..	..
Cauvery delta	1st June to 31st October	..	..	..	..	..	..
Sivalkuntam anicut	Do.	..	..	..	..	..	..
Periyar system	1st October to 15th March	..	..	..	..	..	..
Second crop.							
Godavari delta	1st December to 22nd April.	..	..	..	..	..	..
Krishna delta	1st January to 31st March.	..	..	..	..	..	..
Penuar river canals	Do.	..	..	..	..	..	..
Kurnool-Cuddapah canal	1st December to 31st March.	..	..	..	..	..	..
Cauvery delta	1st November to end of February.	..	..	..	..	..	..
Sivalkuntam anicut	1st November to 31st March.	..	..	..	..	..	..
Periyar system	1st June to 30th September.	..	..	..	..	..	..
The above information regarding the periods is only 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 crop being planted while some of the so-called first crop is still on the ground and taking water.							
In the case of the Godavari and Krishna deltas the period of irrigation of first crop has been taken to be 187 days and 204 days, respectively, though it varies in each delta as shown below during the year:—							
Godavari delta, Eastern section	18th June to 30th November.	..	..	..	..	..	..
Do. Central section	Do.	..	..	..	..	..	..
Do. Western section	Do.	..	..	..	..	..	..
Krishna delta, Eastern section	15th June to 20th November.	..	..	..	..	..	..
Do. Western section	25th June to 20th December.	..	..	..	..	..	..
In the areas of first and second crop.							
Area entered in column (7) both seasons are for lands bearing such crops as betel, sugarcane, which require irrigation for the greater part of the year. This is included in the areas of first and second crop.							

E-II.—Statement showing the incidence of working expenses and assessed water revenue on Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during 1938-39.

during 1938-39.

Name of canal.	Water assessed, 1938-39.				Gross and assessed revenue from all sources.		Working expenses, direct and indirect.		Area charged as irrigated during the year 1938-39 first and second crops.		Working expenses, Per cent on gross revenue.		Total water-rate direct and indirect.				
	Average discharge of the year at canal head in cubic feet per second.		Total of direct and indirect.		RS.	ACS.	RS.	ACS.	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	(2)	(3)	(4)	(5)													
<i>Productive.</i>																	
1 Cauvery delta system	7,833	40,22,865	1,24,013	41,46,908	41,46,908	41,46,908	11,57,353	1,007,273	27 81	1 15	4 12	4 12	4 12	4 12	27 81	1 15	4 12
2 Sivakuntam anicut system	..	1,98,057	1,490	1,99,547	1,99,547	2,07,784	30,573	40,532	43 58	2 23	4 02	4 02	4 02	4 02	43 58	2 23	4 02
3 Godavari delta system	8,648	43,31,620	2,30,403	45,02,023	45,02,023	47,70,852	12,79,916	121,750	23 83	1 14	2 83	2 83	2 83	2 83	23 83	1 14	2 83
4 Mahanadi anicut system	..	1,15,158	196	14,354	14,354	14,920	19,925	17,040	11 40	3 02	2 83	2 83	2 83	2 83	13 35	3 02	2 83
5 Kundapalli channel	343	1,15,374	2,929	1,18,303	1,18,303	1,19,751	19,925	17,040	11 40	3 02	2 83	2 83	2 83	2 83	13 35	3 02	2 83
6 Kalinga river anicut system	398	1,11,177	483	1,11,660	1,11,660	1,13,378	20,456	22,950	13 04	3 01	2 83	2 83	2 83	2 83	13 04	3 01	2 83
7 Chinnabakam anicut system	..	25,552	339	25,891	25,891	26,275	28,121	9,341	107 03	3 01	2 83	2 83	2 83	2 83	13 04	3 01	2 83
8 Pennur anicut system	..	37,726	957	38,683	38,683	39,640	9,556	17,932	24 02	3 01	2 83	2 83	2 83	2 83	14 02	3 01	2 83
9 Pennur river canals system	..	1,77,619	279	1,77,927	1,77,927	1,79,044	25,079	30,108	14 01	3 01	2 83	2 83	2 83	2 83	14 01	3 01	2 83
10 Arkonchi anicut system	..	6,92,618	72,508	7,05,127	7,05,127	7,67,740	1,64,926	107,075	21 48	3 01	2 83	2 83	2 83	2 83	21 48	3 01	2 83
11 Arkonchi channel	170	34,455	428	34,883	34,883	35,185	6,386	5,347	18 15	1 13	3 32	3 32	3 32	3 32	18 15	1 13	3 32
12 Shatavahini anicut system	..	66,872	3,369	70,241	71,099	71,099	81,123	25,786	114 10	1 13	3 32	3 32	3 32	3 32	114 10	1 13	3 32
13 Chettyar anicut system	..	1,37,942	17,031	1,54,973	1,55,079	1,55,079	87,978	43,077	50 51	2 04	3 60	3 60	3 60	3 60	50 51	2 04	3 60
14 Chettyar anicut system	..	57,483	4,735	62,218	63,487	63,487	69,183	25,014	94 80	2 15	2 22	2 22	2 22	2 22	94 80	2 15	2 22
15 Chettyar anicut system	..	35,922	4,481	36,383	36,383	36,383	5,355	10,245	14 72	3 52	3 55	3 55	3 55	3 55	14 72	3 52	3 55
16 Polney anicut system	..	58,437	5,488	63,915	64,104	64,104	51,733	178,368	80 59	2 15	2 68	2 68	2 68	2 68	80 59	2 15	2 68
17 Periyar system	..	7,64,016	94,841	8,03,857	8,70,578	8,70,578	2,08,483	842,024	25 84	1 17	4 82	4 82	4 82	4 82	25 84	1 17	4 82
18 Nandiyar channel system	5,901	32,47,224	1,89,665	34,36,889	36,09,104	36,09,104	9,32,532	9,021	25 14	1 11	4 08	4 08	4 08	4 08	25 14	1 11	4 08
19 Nandiyar minor river system	208	1,22,750	7,874	1,30,624	1,30,713	1,30,713	8,290	66,097	40 29	3 80	1 98	1 98	1 98	1 98	40 29	3 80	1 98
20 Lower Coleroon anicut system	..	4,10,366	51,515	4,61,881	4,75,367	4,75,367	1,52,555	123,883	32 09	1 23	3 80	3 80	3 80	3 80	32 09	1 23	3 80
21 Lower Coleroon anicut system	..	2,89,392	87,205	3,76,597	3,80,341	3,80,341	83,592	61,916	21 98	1 35	6 08	6 08	6 08	6 08	21 98	1 35	6 08
22 Krishna East Bank Canal extension scheme	..	1,00,394	448	1,01,197	1,01,197	1,01,197	70,085	69,226	69 26	3 97	5 72	5 72	5 72	5 72	69 26	3 97	5 72
23 Toludur (Willingdon) reservoir	..	87,804	..	87,804	88,033	88,033	20,318	17,766	23 76	2 05	4 94	4 94	4 94	4 94	23 76	2 05	4 94
24 Polavarum Island project	..	13,03,902	..	13,03,902	13,20,078	13,20,078	3,38,008	164,923	25 95	1 43	7 91	7 91	7 91	7 91	25 95	1 43	7 91
25 Cauvery-Mettur Project	..	3,29,112	..	3,29,233	3,32,593	3,32,593	1,14,625	61,505	34 16	1 86	5 35	5 35	5 35	5 35	34 16	1 86	5 35
26 Kattalai scheme	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<i>Unproductive.</i>																	
1 Kurnool-Cuddapah canal	..	3,21,274	3,004	13,24,278	3,28,381	3,28,381	1,38,075	82,601	42 23	1 68	3 33	3 33	3 33	3 33	42 23	1 68	3 33
2 Barur tank	..	21,342	782	22,124	23,842	23,842	10,746	5,430	66 04	2 90	4 07	4 07	4 07	4 07	66 04	2 90	4 07
3 Vallur anicut system	..	..	1,074	..	..	..	4,872	5,002	..	..	..	..	..	..	..	..	..

E-II.—Statement showing the incidence of working expenses and assessed water revenue on Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during 1938-39—cont.

Total water-rate direct and indirect.	Name of canal.	Water assessed, 1938-39.				Gross and assessed revenue from all sources.	Working expenses, direct and indirect.	Area charged as irrigated during the years 1938-39 first and second crops.	Working expenses.		Per acre irrigated.	
		Average discharge of the year at canal head in cubic feet per second.		Total of direct and indirect.	Per cent on gross revenue.				Per acre irrigated.			
		(1)	(2)							(3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
				Total direct.	Indirect.	RS.	RS.	RS.	RS.	ACS.		
<i>Unproductive—cont.</i>												
	4 Madras water-supply and Irrigation system	..	..	—	462	—	1,802	50,923	17,346	7,378	35.04	2.15
	5 Pelandora aicut system	..	..	18,261	86	18,347	19,367	10,367	20,146	12,803	104.92	1.56
	6 Palar aicut system	..	..	2,45,498	10,852	2,62,350	2,64,073	91,216	98,896	98,896	34.64	.92
	7 Munlyer aicut system	..	..	43,681	62	43,743	44,651	12,557	9,469	9,469	28.10	1.33
	8 Dondanad tank	..	..	1,817	16	1,833	1,827	1,297	268	455	14.67	5.00
	9 Yeur tank	..	..	1,072	86	1,158	—	980	6,374	88	93.74	3.80
	10 Sagleri system	..	..	10,307	23	10,330	—	19,384	7,709	5,080	39.77	1.52
	11 Atmakur tank	..	..	1,698	..	1,698	1,603	1,377	394	551	55.03	2.73
	12 Jangamahevarapuram tank	..	..	860	..	860	860	1,030	262	262	119.77	3.93
	13 Anamasudram-Beraperu tank	..	..	127	1	128	—	196	650	879	..	.74
	14 Halipuram tank	..	..	3,325	70	3,395	3,395	630	827	827	20.29	.83
	15 Ponnalur tank	..	..	3,723	..	3,723	3,723	1,041	737	757	44.10	2.17
	16 Markapur tank	..	..	7,738	1	7,739	7,739	5,105	1,922	1,922	65.96	2.66
	17 Nagavalli river system	..	250	95,331	21,566	1,16,897	1,17,009	27,048	23,169	23,169	22.94	.96
	18 Venkatapuram tank	..	..	1,458	38	1,496	1,476	749	372	372	50.75	2.01
	19 Bhavanasi tank	..	..	9,458	..	9,458	5,151	1,699	1,704	551	32.84	3.10
	20 Yellanur tank	..	..	1,943	1,104	3,047	3,047	2,750	607	607	90.25	4.53
	21 Pandarathi reservoir	..	..	5,229	..	5,229	5,229	1,553	..	..	29.80	1.55
	22 Siddapur tank	..	..	2,509	..	2,509	3,520	702	702	664	10.97	1.06
	23 Nagavaram aicut and supply channel	..	..	38,220	5,176	43,396	43,533	9,607	9,607	6,236	22.07	1.83
	24 Mopad reservoir	..	..	..	..	..	4,000	1,324	..	..	33.10	..
	25 Kautiyampalayam aicut	..	..	..	..	..	5,733	287	..	..	5.01	.60
	26 Tippayapatam project	..	..	..	..	..	..	9,151	..	..	12,887.73	..
	27 Basavanahalli channel	..	..	..	..	..	..	..	..	..	..	..
	28 Duvvaleru project	..	..	..	..	..	..	..	..	..	..	..

E-III.—Statement showing the area actually irrigated by flow and lift under Productive and Unproductive works and the value of crops raised thereon for fasli 1348 (1938-39).

E-III.—Statement showing the area actually irrigated by flow and raised thereon

Districts.	Names of systems.	Area actually irrigated.				Total
		First crop.		Second crop.		
		Flow.	Lift.	Flow.	Lift.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. Productive works.						
		ACS.	ACS.	ACS.	ACS.	ACS.
Vizagapatam ..	Chicacole minor rivers system.	59,130	1,877	2,384	1,579	64,169
East Godavari ..	Polavaram island system.	13,011	29	4,721	5	17,866
West Godavari ..	Godavari delta system ..	362,031	4,579	137,496	1,822	503,928
Kistna ..	Godavari delta system ..	412,942	6,464	169,675	3,706	592,727
	Godavari delta system ..	558	..	37	..	595
	Total ..	775,531	11,043	307,208	5,528	1,099,309
West Godavari ..	Kistna delta system ..	37,973	145	52	23	38,173
Kistna ..	Kistna delta system ..	428,989	6,558	1,500	67	437,114
Guntur ..	Kistna delta system ..	344,080	5,270	1,340	90	350,780
	Total ..	811,042	11,973	2,892	180	824,085
Kistna ..	Kistna East Bank canal system.	60,179	849	689	2	61,719
Nellore ..	Pennar river canals system.	155,308	3,288	1,434	259	160,258
Coimbatore ..	Arakkankottai channel ..	4,633	169	511	27	5,339
	Tadepalle channel ..	14,940	585	1,877	181	17,583
	Kalingarayan channel ..	9,828	2,596	8,222	2,178	22,824
Chingleput ..	Chembrambakkam tank ..	12,503	120	4,499	295	17,417
North Arcot ..	Poincy anicut system ..	17,257	280	3,334	59	20,926
Chittoor ..	Poincy anicut system ..	1,232	7	182	..	1,421
	Total ..	18,489	287	3,516	59	22,351
North Arcot ..	Cheyyar anicut system ..	18,395	866	6,523	271	26,055
Chingleput ..	Cheyyar anicut system ..	400	..	41	..	441
	Total ..	18,795	866	6,564	271	26,436
South Arcot ..	Tirukkoyilur anicut system.	24,227	1,413	3,190	169	28,999
	Shatlatope anicut system.	31,060	652	9,276	183	41,171
	Mehamaitur anicut system.	4,647	42	316	5	5,010
	Vridhdachalam anicut system.	7,851	652	417	14	8,934
	Willington reservoir ..	16,450	134	970	2	17,556
	Lower Coleroon anicut system.	81,265	3,571	9,346	386	94,568
Tanjore ..	Lower Coleroon anicut system.	22,509	733	3,051	283	26,575
	Total ..	103,774	4,304	12,397	669	121,144
Tanjore ..	Cauvery delta system ..	792,269	20,262	90,445	3,551	906,527
Trichinopoly ..	Cauvery delta system ..	43,886	2,185	23,281	1,202	70,554
	Total ..	836,155	22,447	113,726	4,753	977,081
Tanjore ..	Cauvery-Mettur Project ..	136,404	4,521	17,855	738	159,518
Trichinopoly ..	Nandiyar channel system.	6,213	854	2,353	343	9,763
	Kattalai scheme ..	45,711	2,202	12,042	814	60,769
Madura ..	Periyar system ..	128,131	598	46,020	473	175,222
Ramnad ..	Periyar system ..	40	..	..	..	40
	Total ..	128,177	598	46,020	473	175,268
Tinnevely ..	Srivaikuntam anicut system.	22,043	2,086	14,859	203	39,191
	Marudur anicut system ..	16,670	358	12,470	177	29,675
Kurnool ..	Cumbum tank ..	5,388	80	4,592	30	10,090
	Total of Productive works.	3,338,164	74,005	594,950	19,137	4,026,256

under Productive and Unproductive works and the value of crops raised thereon in the year 1938 (1938-39).

Both seasons.	Value of crops.							
	Paddy.		Ragi.		Other crops.		Total.	
	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
ACS.	ACS.	RS.	ACS.	RS.	ACS.	RS.	ACS.	RS.
63	60,442	15,71,648	3,640	78,663	838	5,635	64,920	16,55,946
8	17,693	6,92,944	..	..	73	1,856	17,766	6,94,794
11,126	468,840	2,54,43,719	225	4,893	35,802	21,93,921	501,867	2,76,42,443
3,730	525,445	2,21,61,395	1,083	42,062	54,161	6,39,580	580,689	2,28,43,637
..	595	14,316	..	..	..	..	595	14,316
14,856	994,880	4,76,19,432	1,308	47,465	89,963	28,33,501	1,086,151	5,05,00,398
4	37,937	20,85,803	..	..	256	1,031	38,193	20,86,834
4,486	431,119	1,57,39,898	541	6,445	5,332	2,32,345	436,992	1,59,78,688
4,204	345,248	1,88,23,243	55	2,983	5,448	6,97,268	350,751	1,95,23,494
8,694	814,304	3,66,48,944	596	9,428	11,036	9,30,644	825,936	3,75,89,016
457	60,855	20,67,335	6	303	858	73,785	61,719	21,41,423
631	149,669	88,01,028	1,900	59,471	8,464	47,973	160,033	89,98,477
15	5,210	3,64,022	12	751	117	21,600	5,339	3,86,373
733	15,172	10,47,352	52	2,790	2,339	1,81,640	17,563	12,31,782
4,099	14,476	9,09,616	1,147	75,867	7,201	7,68,174	22,824	17,53,657
138	15,190	6,22,616	356	8,403	..	1,61,315	15,546	7,92,334
65	16,326	6,80,495	2,435	90,586	1,901	37,633	20,662	8,08,714
4	1,009	53,782	241	12,298	171	440	1,421	66,520
69	17,335	7,34,277	2,676	1,02,884	2,072	38,073	22,083	8,75,234
186	22,139	10,49,634	2,175	82,800	877	7,260	25,191	11,39,694
..	401	15,726	32	1,058	8	176	441	16,960
136	22,540	10,65,360	2,207	83,858	885	7,436	25,632	11,56,654
854	23,610	9,54,613	1,669	43,667	1,782	31,087	27,061	10,29,367
1,324	40,055	19,83,138	336	9,608	780	18,636	41,171	20,11,382
84	4,221	1,31,952	101	3,770	559	6,360	4,831	1,42,032
14	8,145	2,92,109	180	5,439	540	1,680	8,865	2,99,228
964	15,952	6,82,028	90	4,070	1,481	29,894	17,523	7,15,992
172	91,701	49,88,537	302	7,737	2,552	31,310	94,555	50,27,584
473	25,643	12,58,978	147	6,983	786	97,945	26,576	13,63,906
645	117,344	62,47,515	449	14,720	3,338	1,29,255	121,131	63,91,490
14,296	872,959	4,15,63,710	4,784	1,15,436	28,760	33,00,835	906,503	4,49,79,981
132	67,351	41,71,090	460	21,588	2,741	2,47,522	70,552	44,40,200
14,428	940,310	4,57,34,800	5,244	1,37,024	31,501	35,48,357	977,055	4,94,20,181
85	153,126	63,01,170	645	19,020	5,747	47,402	159,518	63,67,592
595	8,112	4,20,413	263	10,655	1,393	1,28,711	9,768	5,59,779
4,995	53,118	29,37,910	137	5,927	7,486	4,40,293	60,741	33,90,130
2,903	167,878	1,14,19,969	3,384	1,14,031	3,960	8,86,673	175,222	1,24,20,673
..	46	2,235	..	..	..	..	46	2,235
2,903	167,924	1,14,22,204	3,384	1,14,031	3,960	8,86,673	175,228	1,24,22,908
1,515	35,722	15,31,803	222	7,009	3,094	84,806	39,038	16,23,610
559	27,189	14,49,876	241	8,085	1,670	1,26,754	20,100	15,84,715
264	7,785	3,98,934	522	21,315	1,783	24,524	10,090	4,44,773
59,578	3,790,379	18,27,23,039	27,383	8,74,223	1,88,960	1,05,82,063	4,006,722	19,41,79,325

E.-III—Statement showing the area actually irrigated by flow and lift raised thereon in

Districts.	Names of systems.	Area actually irrigated.				Total
		First crop.		Second crop.		
		Flow.	Lift.	Flow.	Lift.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		ACS.	ACS.	ACS.	ACS.	ACS.
2. Unproductive works.						
Vizagapatam	.. Nagavalli river system ..	26,056	184	808	14	27,062
Kistna	.. Munayuru anicut system ..	8,668	49	355	20	9,092
Guntur	.. Jangamaheswarapuram tank.	244	..	6	..	250
	Atmakur tank	414	2	..	..	416
	Dondapad tank	294	..	99	..	393
	Bhavanasi tank	546	1	5	..	551
Nellore	.. Mopad reservoir ..	5,020	3	198	..	5,218
	Hajeeপুরam tank ..	705	5	53	..	763
	Ponnalur tank	707	..	..	..	707
	Anamasamudram-Beraperu tank.	776	6	1	..	783
	Yerur tank	..	..	..	131	131
Cuddapah	.. Sagileru system	3,841	50	872	..	4,763
	Chepad channel	9,824	3	1,469	..	11,096
	Nagavaram anicut and supply channel.	517	4	78	2	601
Kurnool	.. Markapur tank	1,589	2	297	..	1,888
	Siddhapur tank	772	1	232	..	1,005
	Venkatapuram tank ..	243	..	122	..	365
	Thippayapalem project ..	473	6	..	..	479
	Kurnool-Cuddapah canal..	30,826	191	6,293	8	37,318
Cuddapah	.. Do. ..	23,781	468	3,478	88	32,815
	Total ..	59,607	659	9,776	96	70,138
Anantapur	.. Yellanur tank	530	..	13	..	543
Salem	.. Barur tank	4,139	52	932	12	5,135
Coimbatore	.. Kanniyampalayam anicut.	..	..	..	6	6
Chingleput	.. Madras water-supply and irrigation system.	5,995	304	417	..	6,716
	Vallur anicut system ..	4,060	352	9	14	4,435
North Arcot	.. Palar anicut system ..	48,957	1,542	20,469	460	71,428
Chingleput	.. Do. ..	18,612	1,567	1,905	111	22,195
	Total ..	67,569	3,109	22,374	571	93,523
South Arcot	.. Pelandurai anicut system..	11,339	319	674	75	12,407
	Total of Unproductive works.	213,723	5,111	38,790	941	258,574
	Grand total of "Productive" and "Unproductive" works.	3,551,892	79,116	633,740	20,078	4,284,826

NOTE.—(1) The area under "both seasons" is included under first and second crops.
 (2) The areas in columns (2) to (6) include extent under "withered crops" but exclude "waste charged."
 (3) The area of "withered crops" is $(19,534 + 1,764) = 21,298$ acres.

Value of crops in 1938-39—cont.

both seasons.	Value of crops.							
	Paddy.		Ragi.		Other crops.		Total.	
	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
ACS.	ACS.	RS.	ACS.	RS.	ACS.	RS.	ACS.	RS.
11	25,980	10,58,696	85	1,796	997	23,334	27,062	10,83,826
..	8,943	5,03,927	6	167	143	3,235	9,092	5,07,359
..	232	12,029	18	618	..	..	250	12,647
..	378	19,514	38	1,263	..	..	416	20,777
..	375	18,098	14	808	4	40	396	19,846
..	545	26,536	5	132	1	80	551	26,748
41	5,081	2,53,598	2	40	73	1,425	5,136	2,55,083
..	568	21,438	158	6,995	37	202	763	28,635
..	614	31,985	11	249	82	500	707	32,734
..	772	5,936	..	..	11	5	783	5,941
49	3,988	1,88,513	412	17,261	404	4,990	4,894	2,10,764
43	8,177	4,65,693	706	24,187	1,910	23,632	10,853	5,13,812
54	365	12,072	23	1,058	213	2,000	601	16,130
..	1,459	45,330	264	6,978	185	1,618	1,888	53,926
..	717	29,430	..	..	288	3,870	1,005	33,300
..	360	20,224	1	36	4	80	365	20,340
..	..	..	465	17,239	14	318	479	17,557
1,657	19,533	10,41,220	163	5,793	17,617	70,293	37,313	11,17,311
2,470	22,324	13,01,742	2,837	1,13,842	7,653	1,72,551	32,814	15,88,165
4,127	41,857	23,42,962	3,000	1,19,635	25,270	2,42,879	70,127	27,05,476
2	332	16,252	18	688	193	850	543	17,790
591	3,624	2,05,053	463	17,432	1,048	80,725	5,135	3,03,215
118	5,815	1,30,668	385	10,812	522	25,693	6,722	1,67,173
21	4,174	37,565	59	1,245	202	4,537	4,435	43,347
429	62,221	26,59,155	5,486	1,97,200	3,538	32,341	71,245	28,78,696
40	18,853	6,14,037	1,823	39,482	278	2,430	20,954	6,55,958
469	81,074	32,73,192	7,309	2,26,682	3,816	34,780	92,199	35,34,654
62	10,990	3,40,421	187	6,276	1,230	11,128	12,407	3,57,825
5,588	206,400	90,60,037	13,689	4,61,597	36,717	4,66,251	256,806	99,87,885
35,166	3,996,779	19,17,83,976	41,072	13,35,820	225,677	1,10,43,314	4,263,528	20,41,67,210

E. IV.—Comparative statement of irrigation and rainfall in the Madh

Of the civil districts.				Works supplying irrigation.		Cultivable area commanded by the irrigation.
Civil districts.	Total area in acres.	Cultivable area in acres.	Cultivated area in acres.	Number and name.		
(1)	(2)	(3)	(4)	(5)		(6)
Vizagapatam ..	5,169,262	2,763,736	2,262,031	1 Chicacole minor rivers system	..	ACS
				2 Nagavalli river system	..	704
				3 Minor works	..	314
						116,5
				Total ..		216,5
East Godavari ..	3,980,698	2,022,740	1,393,008	1 Godavari delta system	..	395,2
				2 Polavaram island system	..	18,6
				3 Minor works	..	94,5
				Total ..		508,5
West Godavari ..	1,511,021	1,309,603	1,031,627	1 Godavari delta system	..	565,0
				2 Kistna delta system	..	43,1
				3 Minor works	..	608,1
				Total ..		543,0
Kistna	2,269,786	1,634,907	1,230,541	1 Kistna delta system ..	..	80,0
				2 Godavari delta system	..	13,0
				3 Divi cum Kistna East Bank Canal system	..	20,9
				4 Muniyeru anicut system	..	656,9
				5 Minor works	..	357,0
				Total ..		2,44
Guntur	3,683,824	2,683,350	2,376,689	1 Kistna delta system	..	2,88
				2 Bhavanasi tank	..	1,18
				3 Dondapad tank	..	96
				4 Atmakur tank	..	20,59
				5 Jangamaheswarapuram tank	..	390,9
				6 Minor works	..	319,8
				Total ..		1,704
Kurnool	4,859,704	2,879,404	2,137,980	1 Kurnool-Cuddapah canal	..	6,000
				2 Venkatapuram tank	..	1,701
				3 Cumbum tank	..	4,229
				4 Markapur tank	..	New project
				5 Siddapur tank	..	47,14
				6 Thippayapalem project	..	380,664
				7 Minor works	..	55,40
				Total ..		1,641
Bellary	3,643,891	3,068,062	2,625,477	Minor works	..	153,233
Anantapur ..	4,307,053	3,541,633	2,156,912	1 Yellanur tank	..	154,874
				2 Minor works	..	37,700
				Total ..		26,578
Cuddapah ..	3,790,752	2,135,593	1,144,759	1 Kurnool-Cuddapah canal including Chepad channel.	..	894
				2 Sagileru system	..	102,629
				3 Nagavaram anicut and supply channel.	..	167,799
				4 Minor works	..	190,000
				Total ..		13,890
Nellore	5,087,200	2,909,538	1,424,875	1 Pennar river canals system	..	1,973
				2 Mopad reservoir	..	1,000
				3 Ponnalur tank	..	3,178
				4 Anamasamudram Biraperu tank	..	2,900
				5 Yerur tank	..	136,953
				6 Hajipuram tank	..	
				7 Minor works	..	
				Total ..		349,593

sidency for the revenue year ending 30th June 1939.

Area irrigated in acres.							Rainfall.	
Revenue year ending 30th June 1938.			Revenue year ending 30th June 1939.			1937-38.	1938-39.	
Kharif I crop.	Rabi II crop.	Total.	Kharif I crop.	Rabi II crop.	Total.	(14)	(15)	
(8)	(9)	(10)	(11)	(12)	(13)	INCHES.	INCHES.	
7)								
Acres.								
66,800	64,488	5,069	69,557	61,007	3,913	64,920		
27,500	25,002	567	25,569	26,240	822	27,062		
15,766	106,775	11,904	118,679	113,227	20,868	131,095		
10,056	196,265	17,540	213,805	200,471	25,003	226,077	32.43	
77,006	365,353	110,652	476,005	366,610	133,318	605,928		
17,500	13,070	8,432	21,502	13,040	4,726	17,766		
91,862	82,026	2,194	84,220	86,144	5,804	91,948		
30,362	460,449	121,278	581,727	465,794	149,818	615,642	38.75	
14,500	420,663	162,777	583,440	419,406	173,381	592,787		
43,129	38,612	132	38,744	38,118	75	38,193		
	35,868	511	36,379	41,620	1,680	43,300		
57,029	495,143	163,420	658,563	499,153	175,186	674,289	32.20	
45,300	433,039	430	433,469	435,547	1,567	437,114		
42,000	1,015	163	1,178	558	37	595		
10,000	53,818	9	53,827	61,028	691	61,719		
20,903	8,959	5	8,964	8,717	375	9,092		
	21,280	197	21,477	13,234	763	13,997		
518,203	518,111	804	518,915	519,084	3,433	522,517	30.73	
330,000	347,925	896	348,821	349,350	1,430	350,780		
	841		538	547	5	552		
	250	..	319	294	99	393		
	460		393	416	..	418		
	290	1	247	244	6	250		
26,534	21,629	1,311	22,940	22,873	759	23,632		
358,375	371,050	2,209	373,259	373,724	2,299	376,023	29.54	
103,743	36,852	6,020	42,872	31,017	6,306	37,323		
340	204		204	243	122	365		
5,980	5,354	2,870	8,224	5,468	4,622	10,090		
1,583	1,008	780	2,388	1,591	297	1,888		
3,780	723	8	731	773	232	1,005		
		New project.		479	..	479		
47,146	42,536	6,016	48,552	45,556	4,995	50,551		
162,522	87,277	15,694	102,971	85,127	16,574	101,701	24.53	
55,406	45,529	6,182	51,711	46,390	7,651	54,041	17.62	
625	539	45	584	530	13	543		
153,233	117,719	29,140	146,859	149,153	68,356	2,17,509		
154,158	118,258	29,185	147,443	149,683	68,369	2,18,052	21.67	
19,076	42,357	9,995	52,352	38,876	5,035	43,911		
4,500	3,765	1,644	5,409	3,891	1,003	4,894		
894	583	347	915	21	80	601		
102,629	96,950	24,729	121,679	95,836	19,471	115,307		
127,699	143,640	36,715	180,355	139,124	25,589	164,713	26.62	
162,500	158,384	12,611	170,995	158,596	1,693	160,289		
12,500	4,814	122	4,936	5,023	198	5,221		
1,000	699	47	746	707	..	707		
1,000	969	3	972	782	1	783		
1,470	6	..	6	..	..	..		
700	659	42	701	710	53	763		
136,956	129,602	10,161	139,763	117,464	2,135	119,699		
316,126	295,133	22,986	318,119	283,282	4,180	287,462	37.72	
							26.56	

E.-IV—Comparative statement of irrigation and rainfall in the Madras

Madras Presidency for the revenue year ending 30th June 1939—cont.

Of the civil districts.				Works supplying irrigation.		Cultivable area, as annually irrigated by the works specified in column (6).	Area irrigated in acres.						Rainfall.	
Civil districts.	Total area in acres.	Cultivable area in acres.	Cultivated area in acres.	Number and name.	Revenue year ending 30th June 1938.			Revenue year ending 30th June 1939.			1937-38.	1938-39.		
					Kharif I crop.		Rabi II crop.	Total.	Kharif I crop.	Rabi II crop.			Total.	
(1)	(2)	(3)	(4)	(5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
					ACS.							INCHES.	INCHES.	
Chingleput	1,965,897	1,123,506	872,221	1 Palar anicut system	24,102	20,490	11,843	32,333	20,179	2,015	22,194			
				2 Chembarambakkam tank	38,000	12,980	2,614	15,594	12,623	4,791	17,417			
				3 Vallur anicut system	5,216	3,569	1,078	4,647	4,412	23	4,435			
				4 Cheyyar anicut system	494	438	374	812	400	41	441			
				5 Madras water-supply and Irrigation system	9,852	6,934	3,187	10,121	6,299	423	6,722			
				6 Minor works	358,578	333,570	135,432	469,002	320,211	40,105	360,316			
				Total	421,424	377,981	154,528	532,509	361,124	47,401	411,525	60.65	30.42	
South Arcot	2,633,024	1,900,570	1,541,890	1 Lower Coleroon anicut system	34,244	84,719	10,134	94,853	84,636	9,732	94,568			
				2 Shafiatope anicut system	32,000	31,717	8,402	40,119	31,712	9,459	41,171			
				3 Vriddhachalam anicut system	8,820	8,735	1,010	9,745	8,503	431	8,934			
				4 Mehamattur anicut system	5,000	4,912	863	5,775	4,689	321	5,010			
				5 Tirukkoyilur anicut system	28,000	26,071	4,176	30,247	25,640	3,359	28,999			
				6 Pelandurai anicut system	12,837	11,918	704	12,622	11,658	749	12,407			
				7 Willingdon reservoir	25,000	14,506	651	15,157	16,584	972	17,556			
				8 Minor works	100,198	275,008	87,431	362,439	245,289	53,340	298,629			
				Total	306,198	457,589	113,371	570,960	428,911	78,363	507,274	50.98	32.81	
North Arcot	2,982,386	1,716,897	1,378,859	1 Palar anicut system	54,560	53,143	26,022	79,165	50,499	20,930	71,429			
				2 Cheyyar anicut system	22,193	20,487	16,446	36,933	19,281	6,794	26,055			
				3 Poiney anicut system	22,462	20,142	7,329	27,471	17,537	3,393	20,930			
				4 Minor works	231,647	213,437	117,624	331,061	198,129	59,553	257,682			
				Total	330,868	307,209	167,421	474,630	285,426	90,670	376,096	46.73	31.52	
Chittoor	3,778,865	1,809,746	911,785	1 Poiney anicut system	13,993	1,425	318	1,743	1,230	182	1,421			
				2 Minor works	113,933	88,254	29,254	117,508	88,499	27,317	115,816			
				Total	127,926	89,679	29,572	119,251	89,733	27,499	117,237	41.36	27.80	
Salem	4,517,107	2,720,083	1,815,554	1 Barur tank	3,750	4,147	1,647	5,794	4,191	944	5,135			
				2 Minor works	105,998	91,568	40,521	132,089	91,933	34,651	126,584			
				Total	109,748	95,715	42,168	137,883	96,124	35,595	131,719	34.35	30.18	
Coimbatore	4,545,253	2,768,928	1,962,423	1 Tadepalle channel	15,400	15,523	3,588	19,109	15,505	2,058	17,563			
				2 Arakkankottai channel	4,845	4,819	458	5,277	4,802	538	5,340			
				3 Kallagaroyan channel	12,239	12,486	11,924	24,410	12,424	10,400	22,824			
				4 Kaniyampalayam anicut	213	212	212	424	424	424	424			
				5 Minor works	69,310	64,740	19,967	84,707	62,611	19,301	81,912			
				Total	102,007	97,780	35,935	133,715	95,342	32,297	127,639	27.79	21.44	
Trichinopoly	2,825,870	2,228,070	1,506,257	1 Cauvery delta system	44,008	46,018	23,514	69,532	46,071	24,483	70,554			
				2 Nandiyar channel system	7,084	6,979	3,084	10,063	7,072	2,696	9,768			
				3 Kattalai scheme	36,623	46,918	16,724	63,642	47,913	12,856	60,769			
				4 Minor works	120,308	111,470	53,023	164,493	104,915	48,537	153,502			
				Total	208,023	211,385	96,345	307,730	205,971	88,622	294,593	42.47	30.61	
Tanjore	2,397,276	1,740,265	1,516,658	1 Cauvery delta system	856,918	813,688	90,947	904,635	812,531	93,996	996,527			
				2 Lower Coleroon anicut system	23,635	23,281	3,619	26,900	23,242	3,334	26,576			
				3 Cauvery-Mettur Project	177,000	135,312	15,035	150,347	140,925	18,693	159,518			
				4 Minor works	65,961	36,456	2,249	38,705	34,149	1,610	35,798			
				Total	1,235,514	1,008,737	111,850	1,120,587	1,010,847	117,572	1,128,419	51.05	34.38	
Madurai	3,061,218	2,210,743	1,353,582	1 Periyar system	143,000	129,809	50,547	180,356	128,729	46,493	175,222			
				2 Minor works	131,043	115,468	32,756	148,224	104,883	24,774	129,657			
				Total	274,046	245,277	83,303	328,580	233,612	71,267	304,879	33.10	24.52	
Ramnad	3,115,259	2,201,984	1,288,751	1 Periyar system	38,362	635	635	635	46	46	46			
				2 Minor works	38,362	33,226	16,322	49,548	21,176	2,754	23,930			
				Total	76,724	33,861	16,322	50,183	21,222	2,754	23,976	34.19	27.24	
Tinnevely	2,788,727	2,089,344	1,375,396	1 Srivairkuntam anicut system	25,685	23,515	11,813	35,328	24,129	15,062	39,191			
				2 Marudur anicut system	17,920	17,058	9,833	26,891	17,023	12,647	29,675			
				3 Minor works	187,167	169,787	88,353	258,140	161,961	87,479	240,440			
				Total	230,772	210,360	109,999	320,359	203,118	115,188	318,300	31.65	23.48	
				Total of productive and unproductive works	4,758,150	4,774,147	3,633,530	4,295,080	3,631,008	653,818	4,284,826			
				Total of minor works	2,519,000	2,519,032	2,232,898	715,277	2,048,175	532,092	2,097,354			
Grand total	72,974,073	47,548,702	33,307,275		7,277,150	5,866,428	1,376,827	7,243,255	5,796,270	1,185,910	6,982,180	35.32	32.46	

F-I—Statement showing the water-rates per acre which were in force under certain productive and unproductive works in the Madras Presidency during the year ending 30th June 1939.

Description of crop.	Godavari and Krishna		Munivern project.		Periyar system.*	Bhavansal and Siddhapur.	Venkatasapuram tank.	Mopad.	Willingdon reservoir.	Kanniyampalaysam and cut.†	Panjapatli reservoir.†	Siddapur tank.	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.	RS.	A. P.	RS.	A. P.	
1 Single wet crop	6 4 0	3 2 0	..	..	..	..	..	..	..	..	..	..	..
2 Second wet crop	10	..	..	..	..	..	..	..	..	..	..	..	..
3 Second wet crop (if compounded for two crops for a term of not less than five years).	3 2 0	3 2 0	..	..	..	..	..	..	..	..	..	..	..
4 Second dry crop on irrigated land except where the landholder has compounded under clause 3.	9 0 0	0 6 0	8 0 0	14 1 0	6 4 0	11 12 0	9 6 0	..	..	..	..	..	..
5 For sugarcane, betel and other garden produce remaining on the ground for the time of two crops.	10 3 0	..	..	..	..	..	..	..	..	..	..	..	..
6 For sugarcane, 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.	3 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	3 2 0	0 2 0	..	..	..	..	..	..	..	..	..	..
8 For a third irrigated crop (dry)	1 4 0	3 2 0	4 1 0	..	..	..	..	..	..	..	..	..	..
9 Do.	6 4 0	3 2 0	..	..	..	..	..	..	..	..	..	..	..
10 Dry crop systematically irrigated	10 3 0	..	..	..	..	..	..	..	..	..	..	..	..
11 Second wet crop in the case of zamindari and inam lands	12 8 0	0 6 0	..	..	..	..	..	..	..	..	..	..	..
12 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.	12 8 0	0 6 0	..	..	..	..	..	..	..	..	..	..	..
13 For sugarcane, betel and other garden produce in zamindari and inam lands remaining on the ground for the time of two crops.	10 3 0	..	..	..	..	..	..	..	..	..	..	..	..
14 For sugarcane, 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.	..	..	..	..	..	..	..	..	..	..	..	..	..

- 15 For a first dry crop systematically irrigated
 16 For a second dry crop systematically irrigated
 17 For a first or second dry crop occasionally irrigated
 18 Special crops like onions, sweet potatoes, chillies, tobacco (the same as for a dry crop systematically irrigated)
 19 Mango trees, coconut trees and other tree plantations—
 (a) If they take water for term of two wet crops
 (b) In other cases

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.
 * Double the rates are levied when Periyar water is supplied to Government and minor inam dry lands in the Cumbum Valley, Periyakulam taluk, to which extension of irrigation has been sanctioned.

† No charge for water for twenty years under G.O. No. 123 L, dated 17th March 1916.

‡ Standard scale of water-cess has been ordered to be adopted until further orders—vide G.O. Ms. No. 1277, Revenue, dated 29th June 1934.

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

[N.B.—The rates fixed in the Tanjore District Cauvery Water-cess Rules are not incorporated in this statement.
 (B.P. No. 84, dated 30th September 1939.)]

APPENDIX II.

I. Statement showing the financial results of irrigation under productive and unproductive systems for fasli 1348 (1938-39).

Systems.	Area charged as irrigated and area irrigated free of charge.				Direct receipts.			
	First crop.		Second crop.		Total land and irrigation revenue.		Share due to irrigation.	
	Old irrigation.	New irrigation.	Old irrigation.	New irrigation.	Total.	ACS.	RS.	(10) RS.
(1)	(2) ACS.	(3) ACS.	(4) ACS.	(5) ACS.	(6) ACS.	(7) ACS.	(8) RS.	(9) RS.
(i) Productive Works.								
1 Cauvery delta system	743,647	144,404	888,051	33,919	85,303	110,222	66,30,655	51,17,363
2 Srivalkuntam ancient system ..	14,980	10,854	25,834	5,550	9,218	15,068	2,72,083	2,30,027
3 Godavari delta system	156,150	632,241	808,391	..	313,359	313,359	68,05,923	54,28,710
4 Nizamathur ancient system ..	930	3,786	4,716	..	321	321	36,472	20,079
5 Tadepalle channel	9,090	5,652	15,382	170	1,858	2,058	1,62,010	1,33,958
6 Kalligaveyan channel	8,300	4,250	12,550	8,330	2,050	10,400	1,42,484	1,25,983
7 Viddachalam ancient system ..	2,430	6,480	8,910	..	4,931	4,931	60,818	42,146
8 Chennabakkam tank	11,370	1,697	13,067	1,100	3,705	4,865	83,166	60,713
9 Marudur ancient system	17,020	501	17,521	1,320	12,057	12,057	2,41,047	2,07,777
10 Pennar river canals system ..	99,080	66,276	165,356	1,050	663	1,710	9,50,933	8,09,479
11 Arakkankotai channel	2,730	5,079	7,809	30	825	855	49,659	49,659
12 Pratikottai ancient system ..	16,080	10,285	26,365	30	3,301	3,301	1,74,144	1,27,819
13 Shattynlope ancient system ..	7,100	26,418	33,518	..	6,504	6,504	2,96,241	1,70,381
14 Chennay ancient system	14,060	6,220	20,280	1,630	5,204	4,040	1,51,933	1,07,115
15 Chumbum tank	4,850	773	5,623	2,670	1,052	4,022	46,322	40,418
16 Polney ancient system	15,550	4,690	20,240	2,500	1,075	4,043	1,40,240	1,05,156
17 Polney system	65,800	66,275	131,875	16,100	30,333	40,493	10,80,601	9,77,432
18 Krishna delta system	70,710	767,265	837,975	1,570	4,049	56,53,917	45,93,452	13,42,428
19 Nandivara channel system ..	4,680	5,545	10,225	..	4,014	2,686	2,27,752	1,62,958
20 Coleroon minor rivers system	51,260	10,793	62,053	170	12,836	13,066	8,70,871	5,90,050
21 Lower Coleroon ancient system	44,760	66,057	110,817	..	691	1,691	3,80,050	1,77,234
22 Krishna East Bank canal ..	9,900	51,325	61,225	290	712	972	1,15,087	1,11,481
23 Willingdon reservoir	2,500	14,075	16,565	..	4,726	4,726	88,730	88,730
24 Behavaram Island system	60,257	13,040	73,297	1,730	19,202	20,932	13,83,788	13,42,013
25 Cauvery-Mettur Project	97,860	74,734	1,72,594	8,250	4,613	12,863	4,95,080	3,94,141
26 Kantaladi scheme	..	20,732	48,042	..	..	..	..	..
Total	1,471,504	2,093,487	3,564,991	86,000	533,062	619,071	2,64,97,251	2,14,30,038
								46,20,422

(ii) Unproductive Works.

1 Kurnool-Outdappah canal	6,613	54,651	61,264	..	9,055	9,055	3,22,304	2,94,813	19,094
2 Chirapad channel	1,330	8,435	9,765	56	1,425	1,425	30,984	28,009	2,974
3 Vallur tank	4,030	3,156	7,186	430	514	944	30,264	28,009	2,255
4 Vallur ancient system	5,630	1,949	7,579	780	13	433	21,196	19,095	2,101
5 Madras water-supply and irrigation system	2,120	1,216	3,336	100	347	433	21,196	19,095	2,101
6 Palar ancient system	53,860	10,023	63,883	10,070	650	730	73,127	57,320	15,807
7 Munyuru ancient system	..	8,494	9,094	..	375	29,735	4,46,860	3,34,573	80,275
8 Pondapad tank	..	356	356	..	99	375	65,100	62,820	2,280
9 Yerur tank	..	..	..	2	..	..	2,177	1,955	222
10 Sagluru system	..	..	..	700	303	1,003	4,338	3,170	1,168
11 Atmakur tank	..	183	4,083	..	..	..	23,714	21,823	1,891
12 Jangamaheswarapuram tank ..	..	404	494	..	..	..	2,414	1,372	1,042
13 Anamasamudram-Birapur tank	..	106	256	..	1	0	1,824	1,030	794
14 Haffuram tank	..	..	774	80	79	53	4,398	3,889	509
15 Ponnalur tank	..	774	774	..	53	..	4,200	3,073	1,127
16 Markapur tank	..	757	757	..	..	..	5,828	4,577	1,251
17 Nagavalli river system	..	1,175	1,625	60	247	297	8,883	8,222	661
18 Venkatapuram tank	..	10,600	27,340	5,200	4,381	819	1,39,206	1,11,682	27,524
19 Bhavanasi tank	..	197	250	1	121	122	1,527	1,480	47
20 Yellamur tank	..	549	549	..	13	13	5,199	5,199	48
21 Paplapatti reservoir	..	..	..	..	..	..	3,174	2,714	460
22 Siddhapur tank	..	..	..	..	..	..	..	..	..
23 Nagavaram ancient and supply channel	..	..	..	235	232	..	5,229	5,229	..
24 Moyad reservoir	..	..	..	..	155	80	3,576	2,866	610
25 Kunthiyampalayam ancient	..	..	..	..	199	199	30,624	30,451	1,173
26 Thippayapalem Project	..	..	..	..	..	..	..	..	..
Total	92,234	130,470	228,710	23,721	10,064	40,085	12,92,764	10,63,639	2,26,736
Grand total (of productive and unproductive works) ..	1,563,738	2,160,963	3,793,701	109,730	550,026	659,756	2,77,90,015	2,24,93,727	48,47,158

Statement showing the financial results of irrigation under productive and unproductive systems for
faisli 1348 (1938-39)—cont.

Systems.	Direct receipts—cont.			Indirect receipts.			Total of columns (13) and (17).
	Net revenue due to irrigation.	Deduct portion due to old irrigation.	Increase of revenue due to the outlay incurred.	Land assessment of waste lands brought under irrigation.	Land revenue of miscellaneous items.	Interest on sale-proceeds of tanks, beds, and waste lands.	
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1 Cauvery delta system ..	40,22,865	33,90,269	6,32,659	1,13,000	10,571	412	1,24,043
2 Srivani canal system ..	1,93,057	1,70,000	23,057	1,423	67	..	1,20,547
3 Godavari delta system ..	43,31,020	1,24,000	42,07,020	184,101	8,101	35,141	44,38,023
4 Mahanadi river system ..	14,168	4,000	10,168	94	23	70	10,354
5 Tadapatri channel ..	1,15,374	70,000	39,374	2,800	39	..	42,393
6 Kallur river system ..	1,11,177	85,000	26,177	419	64	..	26,600
7 Vaddachakam channel ..	25,552	16,000	9,552	302	17	..	17,391
8 Chennambakkam tank ..	37,720	15,000	22,720	898	59	..	32,937
9 Pennar river system ..	1,77,618	1,15,000	62,618	46,137	3,711	22,000	50,917
10 Pennar canal system ..	6,92,019	2,56,000	4,36,019	3,272	56	..	4,36,085
11 Arakankottal channel ..	66,872	60,000	6,872	3,203	78	..	6,950
12 Tirukkoyilur ancient system ..	1,37,942	20,000	1,17,942	16,713	318	..	1,18,968
13 Shadyaope ancient system ..	57,163	30,000	27,163	3,106	104	..	27,267
14 Cheyur ancient system ..	33,022	30,000	3,022	443	18	..	3,040
15 Ponnai ancient system ..	58,127	38,000	20,127	5,399	131	..	20,258
16 Kistna delta system ..	7,61,046	2,04,000	5,57,046	15,389	4,040	..	5,66,475
17 Periyar system ..	32,47,934	17,000	31,79,224	1,00,064	16,703	..	33,95,889
18 Nandiyar canal system ..	2,47,779	71,000	1,76,779	59	71	..	1,76,849
19 Chinnole minor rivers system ..	1,22,750	65,000	57,750	7,065	738	..	58,488
20 Lower Coleroon ancient system ..	4,10,300	1,55,000	2,55,300	51,107	318	..	2,55,925
21 Kistna East Bank canal ..	2,80,382	20,300	2,60,082	13,253	4,086	..	2,64,168
22 Willingdon reservoir ..	1,00,384	10,300	89,804	..	..	..	89,804
23 Polavaram Island system ..	87,804	99,971	12,775	..	..	..	12,775
24 Cauvery-Mettur Project ..	13,63,902	2,54,112	11,09,790	..	..	..	11,09,790
25 Kattal scheme ..	3,29,112	..	..	21	..	..	21
Total ..	1,08,09,666	52,86,570	1,15,23,096	5,67,273	50,200	2,79,518	8,07,051
							1,24,20,147

NOTE.—The revenue due to old irrigation and new irrigation under the Cauvery Delta System fixed by the Accountant-General with reference to G.O. No. 763 I., dated 25th March 1939, is shown below:—

	Direct receipts.	Indirect receipts.	Total receipts.
RS.	RS.	RS.	RS.
..	25,72,603	..	25,72,603

(ii) Unproductive Works—cont.

	Direct receipts.	Indirect receipts.	Total receipts.
RS.	RS.	RS.	RS.
1 Kurnool-Guddipati canal ..	2,75,140	2,19,864	4,95,004
2 Chepur channel ..	1,10,125	1,129	1,11,254
3 Patur tank ..	21,342	181	21,523
4 Madras water-supply and irrigation system ..	3,532	1,067	4,599
5 Telandurai ancient system ..	9,321	441	9,762
6 Palar ancient system ..	13,231	57	13,288
7 Hunyuru ancient system ..	1,23,000	15,520	1,38,520
8 Dondapad tank ..	43,601	41,101	84,702
9 Xerur tank ..	1,072	1,817	2,889
10 Sagduru system ..	19,307	1,437	20,744
11 Attamaru tank ..	1,608	1,507	3,115
12 Jangamaheswarapuram tank ..	860	1,008	1,868
13 Anamasamudram-Biraperu tank ..	3,325	3,727	7,052
14 Halpuram tank ..	3,723	3,325	7,048
15 Ponnalur tank ..	7,738	3,723	11,461
16 Markapur tank ..	95,321	5,008	1,00,329
17 Nacavalli river system ..	37,400	57,921	95,321
18 Venkatapuram tank ..	1,438	1,274	2,712
19 Bhavanasi tank ..	5,151	5,151	10,302
20 Yellatur tank ..	1,943	1,943	3,886
21 Paulapatti reservoir ..	..	..	..
22 Siddhapur tank ..	5,220	5,220	10,440
23 Nagavaram ancient and supply channel ..	2,256	146	2,402
24 Mopad reservoir ..	38,220	37,787	76,007
25 Kanliyampalayam ancient ..	..	..	..
26 Thippayapalem Project ..	..	..	..
Total ..	8,30,003	2,51,650	10,81,653
			1,30,50,581

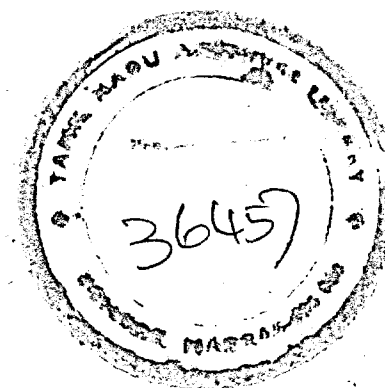
Grand total (of productive and unproductive works).

[Prepared by the Board of Revenue, B.P. No. 84, dated 30th September 1939.]

STATEMENT II.

Systems.	Net receipts, direct and indirect.					Gross indirect receipts.				
	1938-39.					1938-39.				
	Average for five years ending 1937-38.	Actuals 1937-38.	Revised estimates.	Actuals.	RS.	Actuals 1937-38.	Revised estimates.	Actuals.	RS.	RS.
(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)		
(i) Productive Works.										
1 Cauvery delta system	15,47,991	7,23,304	12,39,170	7,18,885		1,24,043	1,24,043	1,24,043		
2 Srivasthura ancient system	1,32,551	1,07,021	1,27,630	1,14,520		1,490	1,490	1,490		
3 Melamthur ancient system	40,61,418	38,18,771	42,46,228	42,18,020		2,30,158	2,30,403	2,30,403		
4 Madhavalli channel	21,219	17,880	17,880	17,880		136	136	136		
5 Kalingarayan channel	61,637	40,482	63,650	40,482		2,920	2,920	2,920		
6 Vriddhachalam ancient system	44,471	30,002	32,759	30,002		483	483	483		
7 Chembrambakkam tank	31,120	24,057	26,381	24,057		339	339	339		
8 Narandur ancient system	30,735	28,652	31,111	28,652		957	957	957		
9 Pennar river canals system	5,81,142	5,10,928	5,72,660	5,10,928		72,179	72,508	72,508		
10 Arakkankottai channel	18,395	13,051	18,618	13,051		428	428	428		
11 Tirukkoyilur ancient system	72,801	53,432	59,211	53,432		3,369	3,369	3,369		
12 Shatitope ancient system	1,45,999	1,13,874	1,22,304	1,13,874		17,031	17,031	17,031		
13 Cheyyar ancient system	63,245	52,755	58,704	52,755		4,735	4,735	4,735		
14 Cumbay tank	7,668	3,928	5,398	3,928		401	401	401		
15 Poiney ancient system	55,100	61,581	53,200	53,200		5,488	5,488	5,488		
16 Kistna delta system	7,83,863	0,33,538	7,51,520	0,33,538		94,841	94,841	94,841		
17 Nandiyar channel system	42,00,525	38,84,407	36,50,874	38,84,407		1,89,065	1,89,065	1,89,065		
18 Chicaole minor rivers system	12,998	10,075	13,939	10,075		243	243	243		
19 Lower Coleroon ancient system	55,703	39,230	53,734	39,230		7,874	7,874	7,874		
20 Kistna East Bank Canal	4,17,820	2,99,058	3,58,979	2,99,058		51,515	51,515	51,515		
21 Willingdon reservoir	2,04,949	3,29,779	2,81,091	3,41,975		87,205	87,205	87,205		
22 Polavarum Island Project	90,360	83,309	83,309	83,309		448	448	448		
23 Polavarum Island Project	1,00,980	90,722	112,703	83,414		..	..	..		
24 Cauvery-Mettur Project	8,44,882	10,94,370	11,27,029	11,49,031		..	..	..		
25 Kattalai scheme	72,076	70,875	80,420	71,476		121	121	121		
(ii) Unproductive Works.										
1 Kurnool-Cuddapah canal	2,68,232	2,43,386	2,50,306	2,36,809		2,438	2,450	2,450		
2 Chirapudur canal	31,606	30,009	34,433	27,139		584	584	584		
3 Barur tank	17,203	10,733	19,845	16,773		782	782	782		
4 Madras water-supply and irrigation system	2,784	1,792	1,025	1,025		1,074	1,074	1,074		
5 Pelandoral ancient system	13,050	10,452	670	12,219		402	402	402		
6 Palar ancient system	43,055	38,371	41,051	39,102		62	62	62		
7 Annalvanthi ancient system	962	1,317	1,054	1,736		10	10	10		
8 Pondur tank	1,751	1,291	956	1,340		86	86	86		
9 Sattur system	3,680	2,921	3,821	1,456		26	26	26		
10 Sattur tank	1,747	1,352	1,770	1,528		..	..	..		
11 Angamalewarapuram tank	380	316	342	342		..	..	..		
12 Annasaram tank	100	2,883	3,600	3,540		1	1	1		
13 Annasaram tank	2,935	2,727	2,727	2,727		70	70	70		
14 Pondur tank	4,491	4,170	3,010	3,537		..	..	..		
15 Markapur tank	4,947	6,105	6,327	5,329		1	1	1		
16 Nagavalli river system	86,583	75,754	88,576	70,303		21,566	21,566	21,566		
17 Venkatapuram tank	1,165	751	826	1,247		38	38	38		
18 Venkatapuram tank	4,367	4,719	4,394	4,894		1	1	1		
19 Biavandur tank	2,095	3,109	2,411	2,919		1,104	1,104	1,104		
20 Yellanur tank	..	..	..	..		..	..	..		
21 Padhapatti reservoir	4,449	4,071	4,180	4,968		..	..	..		
22 Sidhapur tank	2,323	2,452	2,452	1,280		1,017	1,017	1,017		
23 Nagavaram ancient and supply channel	39,913	34,716	34,716	41,035		5,170	5,170	5,170		
24 Mopad reservoir	29,126	161	..	..		..	..	..		
25 Kaniyampallam ancient	..	..	..	..		..	..	..		
26 Tippayapalem Project	..	..	..	..		..	..	..		

[Prepared by the Board of Revenue, B.P. No. 84, dated 30th September 1939.]



R
D1-2118N38
N40.2

APPENDIX III.

Statement showing the extent irrigated and the revenue derived under "Minor Works" for fash 1348 (1938-39).

Districts.	Area irrigated and charged and area irrigated free of charge.				Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.	Net revenue due to irrigation.
	First crop.		Second crop.					
	(2)	(3)	(4)	(5)					(6)	(7)
(1)	ACS.	ACS.	RS.	RS.	RS.	RS.	RS.	RS.
WORKS IN CHARGE OF THE REVENUE DEPARTMENT.								
..	63,583	11,177	2,09,769	1,44,729	44,256	1,00,473		
Vizagapatam	65,324	4,136	2,54,117	1,94,071	45,307	1,48,764		
East Godavari	24,344	651	82,601	70,908	15,933	54,975		
West Godavari	9,370	580	62,865	57,368	9,638	47,730		
Kistna	21,649	748	1,19,552	89,265	16,924	72,341		
Guntur	54,867	1,363	2,78,932	2,29,490	1,17,349	1,12,141		
Nellore	64,316	12,477	2,93,666	2,47,166	61,848	1,85,318		
Cuddapah	110,549	42,032	4,87,515	4,30,532	72,465	3,58,067		
Anantapur	20,757	3,959	89,035	78,739	19,905	59,734		
Bellary	30,091	2,479	1,11,822	94,641	20,010	74,631		
Kurnool	90,300	24,784	4,98,180	3,98,461	1,66,431	2,32,030		
Chittoor	156,652	15,677	5,86,285	4,07,235	3,62,345	44,890		
Chingleput	157,654	46,079	9,91,800	7,08,099	2,59,681	44,418		
North Arcot	154,036	31,514	9,43,017	6,64,321	4,45,750	2,18,571		
South Arcot	30,734	1,378	89,459	66,624	37,276	29,348		
Tanjoro	54,937	17,537	3,02,201	2,26,297	63,032	1,63,215		
Trichinopoly	67,308	9,546	3,61,435	2,91,260	1,78,652	1,12,608		
Madura	13,777	1,745	95,160	77,914	62,391	15,523		
Rannad	83,724	34,714	4,66,515	3,95,853	1,34,870	2,60,983		
Tinnevelly	21,055	4,973	1,31,601	1,03,894	36,542	72,352		
Coimbatore	73,993	24,343	4,57,092	3,10,921	97,711	2,13,210		
Salem	..	..	..	..	..	..	..	
Total of Minor works— Revenue Department	1,369,020	291,922	69,12,619	52,92,788	22,67,466	30,25,322		

WORKS IN CHARGE OF THE PUBLIC WORKS DEPARTMENT.

Vizagapatam ..	60,693	10,011	2,92,213	1,97,385	83,729	1,13,656
East Godavari ..	27,917	1,669	1,27,231	97,465	26,928	70,537
West Godavari ..	20,905	1,929	83,596	70,630	22,384	48,246
Kistna ..	4,646	183	29,161	27,061	3,098	23,963
Guntur ..	4,497	31	24,493	18,776	3,299	15,477
Nellore ..	71,852	872	4,26,701	3,49,032	1,96,283	1,52,749
Cuddapah ..	37,732	7,343	1,88,599	1,59,784	35,756	1,24,028
Anantapur ..	54,206	26,390	3,12,184	2,75,696	49,395	2,35,301
Bellary ..	31,023	4,287	2,30,299	2,03,211	38,218	1,64,993
Kurnool ..	17,729	2,516	84,671	72,184	8,908	63,276
Chittoor ..	11,025	2,533	69,819	55,745	25,439	30,306
Chingleput ..	184,290	24,455	7,80,428	5,44,537	4,17,274	1,27,263
North Arcot ..	57,649	13,474	3,85,048	2,75,446	1,23,244	1,52,202
South Arcot ..	109,015	21,909	7,48,946	5,27,323	3,53,233	1,74,090
Tanjore ..	12,740	930	42,723	31,063	19,081	12,582
Trichinopoly ..	61,098	31,100	4,37,785	3,29,110	70,530	2,58,589
Madura ..	51,333	16,228	3,61,397	2,91,725	96,438	1,95,287
Rannad ..	9,785	1,009	99,573	81,045	78,189	2,856
Tinnevely ..	89,067	60,420	9,47,761	7,93,852	1,55,255	6,38,597
Coimbatore ..	45,205	14,328	3,19,351	2,61,974	73,683	1,88,291
Salem ..	29,138	10,465	2,22,530	1,50,437	53,507	96,080
Total of Minor works— Public Works Depart- ment ..	991,576	250,182	62,13,009	48,14,131	19,24,871	28,89,260
Grand total of Minor works ..	2,360,596	542,104	1,31,25,628	1,01,06,919	41,92,337	59,14,582

APPENDIX IV.

Statement showing the number of wells used for irrigation in fasli 1348—Parts I and II.

Serial number and name of district.	Part I. Wells which lie in the wet ayacuts of recognized sources of irrigation.					Part II. Wells which have independent ayacuts of their own.				
	Wells in actual use.			Number of wells in working order but not used.	Total number of wells abandoned (columns (2) + (4) + (5)).	Wells in actual use.			Number of wells in working order but not used.	Total number of wells abandoned (columns (7) + (9) + (10)).
	Number.	Area irrigated.	Number.			Area irrigated.	Number.			
								(2)			(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1 Vizagapatam ..	3,297	4,343	577	625	4,469	505	333	50	8	563
2 East Godavari ..	17	115	2	2	21	735	107	..	1	36
3 West Godavari ..	1	32	..	..	1	800	1,017	..	..	735
4 Kistna ..	1,130	2,727	290	104	1,521	5,161	3,539	75	..	834
5 Guntur ..	1,942	4,652	431	524	2,897	7,190	29,211	1,086	1,340	7,593
6 Nellore ..	6,806	9,803	2,251	1,151	10,203	22,013	84,746	1,918	3,263	9,432
7 Cuddapah ..	7,868	11,985	2,007	1,311	11,196	18,576	61,503	1,917	3,208	28,134
8 Anantapur ..	7,842	11,817	412	205	1,400	4,144	12,747	1,415	1,493	23,831
9 Bellary ..	309	1,510	483	212	1,099	6,205	23,693	2,875	2,595	7,032
10 Kurnool ..	18,905	26,188	1,838	2,149	22,092	10,416	14,650	937	2,595	12,076
11 Chingleput ..	10,740	29,000	3,542	4,231	27,513	9,369	19,860	836	3,254	13,809
12 Chittoor ..	52,331	72,378	3,913	5,232	61,538	66,592	81,974	5,315	3,759	78,166
13 North Arcot ..	21,931	42,620	9,737	2,695	34,413	..	..	..	..	..
14 Ponnore ..	11,712	13,627	536	395	12,043	50,643	75,563	709	3,537	54,890
15 Tanjore ..	9,074	16,322	1,318	1,140	17,132	37,830	102,545	1,562	2,030	32,271
16 Madurai ..	4,169	12,012	214	200	4,523	19,378	41,731	1,123	1,833	24,489
17 Ramanad ..	11,410	23,166	3,400	600	13,410	23,452	45,237	2,020	1,866	30,328
18 Tirunelveli ..	2,880	13,017	817	260	3,957	30,336	320,510	6,123	8,293	106,757
19 Coimbatore ..	21,618	51,060	2,551	2,651	27,100	75,237	118,668	3,334	6,119	84,710
20 Salem ..	195,094	333,009	34,654	23,707	254,355	449,105	1,949,139	32,291	49,004	522,630
Total ..	..	..	..	..	..	..	..	..	..	..

REVIEW OF THE ADMINISTRATIVE ACCOUNTS OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS OF THE MADRAS PRESIDENCY, FOR THE YEAR 1938-39.

Irrigation, Navigation, Embankment and Drainage Works for which Capital and Revenue Accounts are kept are classified into—

- (1) A. Irrigation works, and
- (2) B. Navigation, Embankment and Drainage Works; each of these being subdivided into productive and unproductive works.

Every irrigation, navigation, embankment or drainage work for which a capital account is kept is classed as productive, if the net revenue anticipated at the end of ten years from the date of the closing of the construction estimate appears likely to pay the annual interest charges on the capital invested (including direct and indirect charges and all arrears of simple interest) calculated at 4 per cent for works sanctioned before the 1st April 1919, at 5 per cent for those sanctioned between 1st April 1919 and 1st August 1921, at 6 per cent for those sanctioned between 1st August 1921 and 31st March 1937 and at 4 per cent for those sanctioned on or after 1st April 1937. If a work is not expected to yield such a return, it is classed as unproductive.

2. The following table summarizes the results of irrigation, etc., works during the year 1938-39, in comparison with those of the previous year, 1937-38:—

(1)	Total invested (direct and indirect and all arrears of simple interest) to end of		Gross receipts (direct and indirect during 1937-38.)	
	1937-38.	1938-39.	(4)	RS.
	(2)	(3)	(4)	RS.
A. Irrigation works—	RS.	RS.	RS.	RS.
1 Productive	18,15,07,130	18,46,29,570	1,42,75,655	..
2 Unproductive	9,01,68,710	9,15,56,955	8,53,770	..
B. Navigation, etc., works—	..	..	..	..
2 Unproductive	3,23,67,352	3,28,10,392	1,06,251	..
Working expenses (direct and indirect) during				
Gross receipts (direct and indirect) during 1938-39.		1937-38.	1938-39.	
(5)		(6)	(7)	
A. Irrigation works—	RS.	RS.	RS.	
1 Productive	1,33,03,688	44,42,857	40,12,331	
2 Unproductive	7,04,499	3,87,965	3,56,726	
B. Navigation, etc., works—	..	..	..	
2 Unproductive	1,08,040	2,59,034	1,56,368	
Percentage on capital invested during				
Net revenue during		1937-38.	1938-39.	
(8)		(9)	(10)	(11)
A. Irrigation works—	RS.	RS.	..	..
1 Productive	98,32,798	92,91,357	5.42	5.03
2 Unproductive	4,65,805	3,47,773	0.52	0.38
B. Navigation, etc., works—	..	..	..	..
2 Unproductive	1,52,783	48,328	0.47	0.15

A. IRRIGATION WORKS.

I. Productive.

3. The number of productive works remained the same as last year, i.e., 26; of which items 1 to 25 of Account No. I (General Abstract) have been in operation. The Construction estimate for item 25 (Cauvery-Mettur Project) was closed on 30th September 1934 but the completion report is yet under sanction. The Kattalai Scheme (item 26) is still in progress.

4. During the year under review, there was a net decrease in revenue to the extent of 9.72 lakhs (i.e., a decrease of 10.65 lakhs on 15 systems and an increase of .93 lakh in the case of 5 systems) as compared with the revenue of the last year. The decrease was mainly in Godavari delta (1.36 lakhs), Mehamattur (.09 lakh), Thadapalli (.10 lakh), Kalingarayan (.05 lakh), Vriddhachalam (.08 lakh), Chembrambakkam (.07 lakh), Pennar River Canals (.37 lakh), Tirukkoyilur (.46 lakh), Cheyyar (.32 lakh), Poiney (.38 lakh), Periyar (.05 lakh), Kistna delta (7.10 lakhs), Chicacole minor rivers (.05 lakh), Polavaram (.08 lakh) and Kattalai (.09 lakh) while the increase was under Cauvery (.14 lakh), Srivaikuntam (.07 lakh), Satiatope (.16 lakh), Kistna East Bank Canal (.14 lakh) and Cauvery-Mettur Project (.42 lakh). The largest decrease was in respect of the Kistna delta, i.e., 7.10 lakhs, and is reported to be due to the cyclone and heavy rains in November 1938 which caused much damage to standing crops necessitating the grant of heavy remissions. The fall in revenue in other cases is attributed to the almost total failure of the north-east monsoon resulting in a general decrease of second crop cultivation and consequent seasonal remissions on a large scale.

5. As compared with the previous year the working expenses of the year under review fell by 4.31 lakhs and this is made up of a decrease of 6.01 lakhs in some systems and an increase of 1.70 lakhs in others.

The decrease occurred chiefly in Godavari (2.66 lakhs), Thadapalli (.14 lakh), Kalingarayan (.32 lakh), Marudur (.16 lakh), Pennar River Canals (.10 lakh), Periyar (.12 lakh), Kistna Delta (1.32 lakhs), Lower Coleroon (.43 lakh) and Cauvery-Mettur (.76 lakh) and the reasons therefor are mentioned below:—

(a) *Godavari Delta*.—Due to the adjustment of the cost of some old bridge shutters from “Capital” to “Revenue” during 1937–38, the working expenses were greater in 1937–38 as compared with those for 1938–39.

(b) *Thadapalli*.—Due to the completion of certain works in 1937–38, there was less expenditure in 1938–39.

(c) *Kalingarayan*.—The work of providing stem shutters to the channel was in good progress in 1937–38, while it was in a closing stage in 1938–39.

(d) *Marudur*.—The decrease in 1938–39 was due to the completion in 1937–38 of the work of extending the left flood bank of the Thambraparni river from the junction of the Kaliavar tank bund to meet the Ottaipidaram road.

(e) *Pennar River Canals*.—The large expenditure in 1937–38 was due to repairs necessitated by floods.

(f) *Periyar*.—Absence of special repair works and delay in land acquisition for certain works during the year accounted for the decrease in 1938–39.

(g) *Kistna Delta*.—The decrease in 1938–39 was due to closure works in the Kistna Eastern Division not having been carried out fully as originally programmed, owing to early rains and to keeping several channels open for longer periods during the year. The execution of a smaller number of works during 1938–39 also contributed to the decrease.

(h) *Lower Coleroon*.—The work of “Dumping brick blocks in rear of North branch at Lower anicut opposite to vents 2 to 4” having been completed during 1937–38 there was less expenditure during 1938–39. Also the estimate for the work “Improvements to the Vadavar head at Lower anicut” was under correspondence necessitating the surrender during the year 1938–39 of the grant reserved for this work.

(i) *Cauvery-Mettur*.—The decrease during 1938–39 was due to the write back of the proportionate share of the working expenses (for the period from 1933–34 to 1937–38) on the old Vadavar from this project to the Cauvery Delta System.

The increase of 1.70 lakhs referred to above was noticed in the Cauvery, Vriddhachalam, Tirukkoyilur, Shatiatope, Cheyyar, Poiney, Chicacole minor rivers, Kistna East Bank Canal extension scheme, and Toludur and is attributable to the following causes:—

(a) *Cauvery Delta* (.32 lakh).—Execution of a larger number of urgent works (including remodelling of ‘A’ class channels) and debit of the proportionate share of the working expenses on the old Vadavar (by transfer from the Cauvery-Mettur Project) during the year.

(b) *Vriddhachalam* (.10 lakh).—Execution of extensive repairs to the anicut channel and tanks damaged by floods and the construction of a regulator at head of Kavanur-Devangudi branch channel during the year.

(c) *Shatiatope* (.42 lakh).—Carrying out during the year of urgent special repairs to Shatiatope anicut.

(d) *Tirukkoyilur* (.19 lakh), *Cheyyar* (.25 lakh), *Poiney* (.12 lakh) and *Chicacole minor rivers* (.09 lakh).—Execution during the year of many repair works necessitated by floods.

(e) *Kistna East Bank Canal extension scheme* (.08 lakh).—The work of strengthening the banks of branch channels in Chellapalle section and immediate repairs to the left flood bank having been carried out during the year.

(f) *Toludur* (.13 lakh).—Execution of repairs to flood damages at the rear apron of Toludur regulator and the adjustment of cost of land acquisition for “Improvements to Palavar drain” during the year.

6. The systems bearing Nos. 1 to 23 in Account No. 1 (General Abstract) have been in operation for over thirteen years, since the dates of the closure of the relative construction estimates. Of these, items 1, 3, 5, 9, 10, 13, 17 to 19, 21 and 22 satisfy the test

of productivity referred to in paragraph 1 ante; items 2, 4, 6 to 8, 11, 12, 14 to 16 and 20 have failed to do so during a portion of the triennium ending with 1938-39 but their retention under the productive category is justified with reference to rule 3 III of statement A of Appendix 4 to the Madras Public Works Account Code. As regards item 23 which has not yielded the required return during the triennium ending with 1938-39, the question of its continued inclusion in the productive class is under reference to Government.

II. Unproductive.

7. There were 28 works of this class in the Presidency as in the preceding year.

8. A decrease in revenue to the extent of 1.49 lakhs as compared with the revenue of the previous year was noticed during the year. Perceptible decreases occurred in the Kurnool-Cuddapah Canal (.09 lakh), Vallur (.09 lakh), Madras water works (.39 lakh), Pelandorai (.27 lakh), Palar (.66 lakh) and Anamasamudram-Beraperu (.04 lakh) and were in most cases stated to be due to the failure of rains and consequential grant of large scale remissions. The Thippayapalem project (the construction estimate of which is still in progress) yielded revenue to the extent of .05 lakh for the first time during the year.

9. There was a slight fall of .31 lakh in the working expenses as compared with the last year. This decrease is the net result of an increase under Yerur (.05 lakh) and decreases under Muniyeru (.09 lakh), Nagavalli (.21 lakh) and Basavannah (.06 lakh). The increase under Yerur is stated to be due to the execution during the year, of special repairs with a view to bring the tank-bund to a standard while the decreases in the three cases (viz., Muniyeru, Nagavalli and Basavannah) are reported to be due to (1) execution, during 1937-38, of the work—"Reconstructing the damaged vent of the undertunnel of the Muniyeru Channel" and the absence of flood repairs during 1938-39, (2) absence, during the year, of extensive special repairs to the Irrigation Channels and (3) restriction of silt clearance in the channels to bare minimum during the year.

10. There are no systems in this class to be transferred to the productive class.

B. NAVIGATION, ETC., WORKS.

11. There were two works of this class in the Presidency (as in the last year) and both of them have been classed as "unproductive." There was a noticeable decrease of 1.03 lakhs in the working expenses of the Buckingham Canal as compared with the previous year. This decrease is reported to be due to the successful working of the Pulicat and Ennore locks, high water level in the canal, and restriction of silt clearance to the minimum during the year.

The variation in revenue as compared with that of the last year is not appreciable.

V. S. SUNDARAM,
Accountant-General.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1938-39.

IRRIGATION BRANCH.

110

PUBLIC WORKS DEPARTMENT.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1938-39.

Name of project.	ESTIMATED COST OF CONSTRUCTION.			Date of closure of construction estimate or in the case of works under construction date of sanction.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES DURING 1938-39		
	Direct charges.	Indirect charges.	Total.		Direct charges.	Indirect charges.	Total.
	(2)	(3)	(4)		(6)	(7)	(8)
(1)	RS.	RS.	RS.	(5)	RS.	RS.	RS.
4. Irrigation Works.							
(1) Productive Works.							
1 Cauvery delta system ..	80,35,966	2,68,875	83,04,841	31st March 1899.	79,618	565	80,183
2 Srivaikuntam anicut system. ..	16,67,459	1,07,604	17,75,063	Do.	..	..	..
3 Godavari delta-system ..	1,70,40,400	20,77,025	1,91,17,425	31st March 1899.	95,090	767	95,857
4 Melamattur anicut system.	85,091	2,093	87,184	March 1891 ..	443	3	446
5 Thadapalli channel ..	1,66,383	11,063	1,77,446	1893 ..	..	..	..
6 Kalingarayan channel ..	1,75,980	4,506	1,80,486	1893 ..	..	..	..
7 Vriddhachalam anicut system.	1,04,144	4,060	1,08,204	31st March 1893.	..	..	..
8 Chembambakkam tank ..	6,51,348	1,12,795	7,64,143	Do.	..	..	..
9 Marudur anicut system ..	58,721	1,401	60,122	1893 ..	..	..	..
10 Pennar river canals system	60,39,744	10,17,860	70,57,604	31st March 1894.	34,075	255	34,330
11 Arsenkotta channel ..	1,40,769	3,676	1,44,445	Do.	..	..	..
12 Tirukkoyilur anicut system.	3,89,189	10,001	3,99,190	31st March 1895.	..	..	..
13 Shatitope anicut system ..	10,29,886	59,675	10,89,561	Do.	..	..	..
14 Choyyar anicut system ..	5,24,798	15,201	5,39,999	31st March 1896.	..	..	..
15 Cumbum tank ..	83,985	2,388	86,373	Do.	..	..	..
16 Pomey anicut system ..	2,95,106	8,812	3,03,918	1897 ..	..	..	..

WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

4. Irrigation Works.

(1) Productive Works.

17 Periyar system ..	1,04,04,627	3,71,027	1,08,35,654	31st March 1897.	4,25,160	22,852	4,47,052
18 Kistna delta system ..	2,12,92,213	12,61,713	2,25,53,926	31st March 1898.	..	..	..
19 Nandiyar channel system ..	63,231	2,484	65,715	1899 ..	..	..	..
20 Chicalole minor rivers system.	2,78,196	11,030	2,89,226	31st March 1900.	..	..	..
21 Lower Coleroon anicut system.	29,13,423	88,246	30,01,669	30th June 1903 ..	65,720	517	66,237
22 Kistna East Bank Canal extension scheme.	57,25,232	1,07,766	58,32,998	31st October 1913.	..	..	..
23 Toludur reservoir project ..	23,93,100	2,54,291	26,47,391	31st October 1925.	13,518	535	14,053
24 Polavarum Island project ..	16,76,423	27,469	17,03,892	28th Feb. 1934 ..	1,512	77	1,589
25 Cauvery-Mettur project ..	6,67,70,000	11,30,000	6,79,00,000	15th June 1929 ..	1,21,600	1,207	1,22,807
26 Kattalai scheme ..	44,22,274	91,438	45,13,712	1st December 1926.	45,400	916	46,316
Total, A. Irrigation—(1)	15,24,87,688	70,52,499	15,95,40,187		8,82,076	27,694	9,09,770

Productive—(1)

(2) Unproductive Works.

1 Kurnool-Cuddapah canal ..	2,33,13,676	79,438	2,33,87,114	Not known	..	..	..
2 Barur tank ..	4,28,228	23,809	4,52,037	31st March 1891.	..	..	..
3 Vallur anicut ..	74,366	1,916	76,282	31st March 1893.	..	..	..
4 Madras water-supply and irrigation system.	16,28,864	2,40,054	18,68,918	1893 ..	..	..	..
5 Polandorai anicut system ..	6,43,302	48,772	6,92,074	1893 ..	..	..	..
6 Palar anicut system ..	23,74,462	1,17,605	24,91,967	31st March 1896.	15,162	118	15,280
7 Muniyeru system ..	5,79,619	29,815	6,09,434	1901-02 ..	971	7	978
8 Dondapad tank ..	1,24,786	15,218	1,40,004	31st March 1903.	..	..	..
9 Yerur tank ..	61,741	1,612	63,353	31st March 1907.	..	..	..
10 Sagileru system ..	4,47,108	17,619	4,64,727	Do.	..	..	..
11 Atmakur tank ..	1,11,959	13,444	1,25,403	31st August 1907.	..	..	..
12 Jangamaheswarapuram tank.	61,253	10,411	71,664	31st March 1908.	..	..	..
13 Anamasamudram-Beruperu tank.	71,687	1,886	73,573	31st March 1910.	..	..	..
14 Hajipuram tank ..	2,78,774	33,109	3,11,883	31st March 1911.	..	..	..
15 Ponnalur tank ..	1,92,975	25,674	2,18,649	Do.	..	..	..
16 Markapur tank ..	1,24,481	4,859	1,29,340	Do.	..	..	..
17 Nagavalli river system	17,19,849	46,595	17,66,444	31st December 1913.	4,749	34	4,783
18 Venkatapuram tank ..	3,72,250	12,671	3,84,921	31st March 1918.	..	..	..
19 Bhavanasi tank ..	2,54,395	11,096	2,65,491	31st March 1919.	..	..	..

111

MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1938-39—*cont.*

Name of project.	ESTIMATED COST OF CONSTRUCTION.			CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES DURING 1938-39.		
	Direct charges.	Indirect charges.	Total.	Direct charges.	Indirect charges.	Total.
(1)	(2)	(3)	(4)	(6)	(7)	(8)
	RS.	RS.	RS.	RS.	RS.	RS.
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—<i>cont.</i>						
<i>A. Irrigation Works—cont.</i>						
<i>(2) Unproductive Works—cont.</i>						
20 Yellanur tank	2,39,192	30,515	2,69,707	..	..	..
21 Panjapatli reservoir ..	3,27,781	11,495	3,39,276	..	..	..
22 Siddapur tank	7,91,038	13,448	8,04,486	..	..	..
23 Nagavaram anicut and supply channel.	1,07,295	2,595	1,09,890	..	..	..
24 Mopad reservoir system ..	21,94,146	96,429	22,90,575	..	..	..
25 Kanniyampalayam anicut ..	1,07,221	3,853	1,11,074	..	..	..
26 Thippayapalam project ..	6,04,548	22,476	6,27,024	4,111	25	4,136
27 Basavannah channel.. ..	5,85,523	6,577	5,92,100	3,736	23	3,759
28 Duvvaleru project	1,50,620	1,455	1,52,075	7,988	49	8,037
Total, A. Irrigation—(2) Unproductive.	3,79,71,139	9,18,316	3,88,89,455	36,743	256	36,999
Total, A. (Irrigation Works) ..	19,94,58,827	79,70,845	19,84,29,672	9,18,819	27,950	9,46,769

B. Navigation, Embankment and Drainage Works.

(2) Unproductive.

1 Vedaranniyam canal.. ..	1,32,699	3,733	1,36,432	..	18	2,034
2 Buckingham canal	85,94,545	4,89,482	90,84,027	2,016	..	2,034
Total, (2) Unproductive Works.	87,27,244	4,93,215	92,20,459	2,016	18	2,034
Total, B. Navigation, etc., Works.	87,27,244	4,93,215	92,20,459	2,016	18	2,034
Total, Construction of Irrigation, etc., Works.	19,91,86,071	84,64,060	20,76,50,131	9,20,835	27,968	9,48,803

o. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of these works for and to end of 1938-39—*cont.*

Name of project.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES TO END OF 1938-39.			GROSS RECEIPTS DURING THE YEAR 1938-39.			WORKING EXPENSES AND MAINTENANCE DURING 1938-39 INCLUSIVE OF INDIRECT CHARGES.				
	Direct charges.	Indirect charges.	Total.	Accumulat- ed arrears of simple interest to end of the year.	Total capital invested to end of the year [columns (11) + (12)].	Direct receipts.	Portion of land revenue due to works, etc.	Direct charges.	Indirect charges.	Total.	
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT— <i>cont.</i>											
A. Irrigation Works.											
1) Productive Works.											
Cauvery delta sys- tem.	79,85,335	2,68,402	82,53,737	..	82,53,737	11,63,577	35,435	11,99,012	3,28,201	2,007	3,30,268
Shivaikuntam anicut system.	16,67,459	1,07,604	17,75,063	..	17,75,063	1,27,294	1,490	1,28,784	82,249	543	82,792
Godavari delta sys- tem.	1,68,96,778	20,70,006	1,89,66,784	..	1,89,66,784	44,16,449	2,30,403	46,46,852	12,72,818	7,098	12,79,916
Mohamathur anicut system.	85,091	2,093	87,184	..	87,184	10,724	196	10,920	18,894	127	19,021
Thadapalli channel.	1,66,383	11,063	1,77,446	..	1,77,446	40,822	2,920	43,751	9,088	48	9,136

A. Irrigation Works.

1) Productive Works.

Cauvery delta sys-tem.	79,85,335	2,68,402	82,53,737	..	82,53,737	11,63,577	35,435	11,99,012	3,28,201	2,007	3,30,268
SriVaikuntam anicut system.	16,67,459	1,07,604	17,75,063	..	17,75,063	1,27,294	1,490	1,28,784	82,249	543	82,792
Godavari delta sys-tem.	1,68,96,778	20,70,006	1,89,66,784	..	1,89,66,784	44,16,449	2,30,403	46,16,852	12,72,818	7,098	12,79,916
Mohamathur anicut system.	85,091	2,093	87,184	..	87,184	10,724	196	10,920	18,894	127	19,021
T'hadapalli channel.	1,66,383	11,063	1,77,446	..	1,77,446	40,822	2,929	43,751	9,088	48	9,136

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1938-1939.

Kalingarayan chan- nel.	1,75,980	4,506	1,80,486	..	1,80,486	27,895	483	28,378	19,103	237	28,121
Vridhdhachalam ani- cut system.	1,04,144	4,060	1,08,204	..	1,08,204	17,436	339	17,775	27,884	18	3,459
Chambambakkam tank.	6,51,348	1,12,795	7,64,143	..	7,64,143	21,855	957	22,812	3,441	109	18,500
Marudur anicut system.	58,721	1,401	60,122	..	60,122	63,765	279	64,044	18,391	680	1,24,948
Pennar river canals system.	59,52,877	10,16,156	69,69,033	..	69,69,033	4,39,232	72,508	5,11,740	1,24,268	32	5,229
Arankota channel.	1,40,769	3,676	1,44,445	..	1,44,445	15,757	428	16,185	5,197	508	74,122
Trukkoyilur anicut system.	3,89,189	10,001	3,99,190	..	3,99,190	7,730	3,369	11,099	73,614	531	85,645
Shattatope anicut system.	10,29,886	59,675	10,89,561	..	10,89,561	1,18,648	17,031	1,35,679	85,114	417	56,031
Cheyyar anicut sys- tem.	5,24,798	15,201	5,39,999	..	5,39,999	19,752	4,735	24,487	55,614	22	4,045
Cumbum tank ..	83,985	2,388	86,373	..	86,373	5,922	461	6,383	4,023	352	47,690
Poincey anicut sys- tem.	2,95,106	8,812	3,03,918	..	3,03,918	20,706	5,488	26,194	47,398	1,047	1,72,245
Poriyar system ..	1,04,64,627	3,71,027	1,08,35,654	..	1,08,35,654	5,71,737	94,841	6,66,578	1,71,198	4,934	9,32,532
Kistna delta system.	2,02,93,417	12,10,332	2,15,03,749	..	2,15,03,749	33,48,439	1,89,665	35,38,104	9,27,598	21	3,802
Nandiyar channel system.	63,231	2,484	65,715	..	65,715	11,207	243	11,450	3,781	304	46,166
Chicacole minor rivers system.	2,78,196	11,030	2,89,226	..	2,89,226	27,839	7,874	35,713	45,862	828	1,42,220
Lower Coleroon anicut system.	29,13,423	88,246	30,01,669	..	30,01,669	2,68,852	51,515	3,20,367	1,41,392	355	67,171
Kistna East Bank canal extension scheme.	55,90,144	1,05,579	56,95,723	5,835	57,01,548	2,72,836	87,205	3,60,041	66,816	464	70,085
Toludur reservoir project.	23,70,475	2,51,753	26,22,228	14,08,202	40,30,520	90,159	448	90,607	69,621	138	25,318
Polavaram Island project.	16,69,109	27,466	16,96,575	38,951	17,35,526	88,033	..	88,033	25,180	2,141	3,21,824
Cauvery-Mettur project.	6,48,93,488	10,47,544	6,59,41,032	2,61,64,692	9,21,05,724	12,20,107	..	12,20,107	3,19,683	440	46,759
Kattai scheme ..	39,17,946	96,789	40,14,735	14,34,872	54,49,607	78,472	121	78,593	46,319	22,504	40,12,331
Sal. A. Irrigation—	14,86,61,905	69,10,089	15,56,71,994	2,90,57,576	18,46,29,570	1,24,95,245	8,08,443	1,33,03,688	39,88,827	22,504	40,12,331

tal. A. Irrigati
(1) Productive.

CAPITAL OUTLAY INCLUSIVE OF
INDIRECT CHARGES TO END
of 1938-39.

Name of project.	INDIRECT CHARGES TO END OF 1938-39.			Accumulated arrears of simple interest to end of the year.			Total capital invested to end of the year [columns (11) + (12)].			GROSS RECEIPTS DURING THE YEAR 1938-39.			WORKING EXPENSES AND MAINTENANCE DURING 1938-39 INCLUSIVE OF INDIRECT CHARGES.		
	Direct charges.	Indirect charges.	Total.	(9)	(10)	(11)	(12)	(13)	(14)	Portion of land revenue due to works, etc.	Total.	Direct charges.	Indirect charges.	Total.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—															
cont.															
Irrigation Works—															
cont.															
Unproductive Works															
Turnool-Cuddapah canal.	2,33,13,676	73,438	2,33,87,114	4,18,85,803	6,52,72,917	2,89,505	3,004	2,92,509	1,33,077	665	1,33,742				
Warur tank	4,28,228	23,809	4,52,037	4,38,815	8,90,852	18,560	782	19,342	15,634	112	15,746				
Ballur anicut	74,366	1,916	76,282	38,610	1,14,892	—	8,371	7,297	3,363	32	3,395				
Madras Water-supply and Irrigation system.	16,28,864	2,40,054	18,68,918	28,28,059	46,96,977	39,461	462	39,923	13,417	123	13,540				
Chandore anicut	6,43,302	48,772	6,92,074	4,48,005	11,40,079	16,281	86	16,367	19,854	126	19,980				
Alar anicut system.	23,63,664	1,17,422	24,81,086	5,40,361	30,21,447	1,22,221	16,852	1,39,073	80,609	609	87,218				
Minjeryu system	5,79,336	29,809	6,09,145	2,79,546	8,88,691	42,089	62	42,151	12,221	67	12,288				

8	Dondapad tank	1,24,786	15,218	1,40,004	1,87,762	3,27,766	1,817	10	1,827	267	268
9	Yerur tank	61,741	1,612	63,353	47,751	1,11,104	—	86	1,411	6,327	6,374
10	Sagileru system	4,47,108	17,619	4,64,727	7,28,198	11,92,925	1,558	26	1,584	4,080	4,104
11	Atmakur tank	1,11,959	13,444	1,25,403	1,01,982	2,27,385	1,608	..	1,808	1,368	1,377
12	Jangamaheswara- pura tank.	61,252	10,411	71,664	64,472	1,36,136	360	..	360	1,023	1,030
13	Anamasamudram- Boreperu tank.	71,687	1,886	73,573	81,522	1,55,095	—	1	3,726	—	210
14	Hajipuram tank	2,78,774	33,109	3,11,883	2,57,418	5,69,301	3,325	70	3,395	686	689
15	Ponnalur tank	1,92,975	25,674	2,18,649	2,43,324	4,61,973	3,723	..	3,723	1,631	1,641
16	Markapur tank	1,24,481	4,850	1,29,340	1,03,533	2,32,873	5,008	1	5,609	4,679	4,705
17	Nagavalli river sys- tem.	17,20,265	44,368	17,64,633	4,21,936	21,86,569	58,943	21,566	80,509	22,881	23,007
18	Venkatapuram tank.	3,72,250	12,671	3,84,921	3,50,308	7,35,229	1,274	38	1,312	745	749
19	Bhavanasi tank	2,54,395	11,096	2,65,491	2,21,851	4,87,342	5,159	..	5,159	1,694	1,704
20	Yellalur tank	2,39,192	30,515	2,69,707	1,87,468	4,57,175	1,943	1,104	3,017	2,731	2,750
21	Panjepatti reser- voir.	3,27,781	11,495	3,39,276	2,86,903	6,26,179	..	..	..	..	..
22	Siddapur tank	7,91,038	13,448	8,04,486	6,79,823	14,84,309	5,229	..	5,229	1,551	1,558
23	Nagavaram aicut and supply chan- nel.	1,07,295	2,595	1,09,890	69,658	1,79,548	285	1,017	1,302	698	702
24	Mopad reservoir system.	21,94,146	96,429	22,90,575	17,78,034	40,68,609	37,930	5,170	43,100	9,554	9,607
25	Kaniyampalayam aicut.	1,07,221	3,853	1,11,074	1,12,941	2,24,015	4,000	..	4,000	1,314	1,324
26	Thippayapalem project.	5,67,883	11,988	5,79,871	1,23,121	7,02,992	5,733	..	5,733	287	287
27	Basavannah chen- nel.	5,83,202	6,578	5,89,780	3,63,387	9,53,167	71	..	71	9,095	9,151
28	Duvvaleru project.	10,971	69	11,040	368	11,408	..	..	..	..	..
29	tal, A. Irrigation— (2) Unproductive.	3,77,81,839	9,04,157	3,86,85,996	5,28,70,959	9,15,56,955	6,53,088	51,411	7,04,499	3,54,579	3,56,726
30	tal, A. Irrigation	18,04,43,744	78,14,246	19,42,57,990	8,19,28,535	27,61,86,525	1,31,48,333	8,59,854	1,40,08,187	43,43,406	43,69,057

Xc. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1938-39—*cont.*

Name of project.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES TO END OF 1938-39.			GROSS RECEIPTS DURING THE YEAR 1938-39.			WORKING EXPENSES AND MAINTENANCE DURING 1938-39 INCLUSIVE OF INDIRECT CHARGES.		
	Direct charges.	Indirect charges.	Total.	Accumulated arrears of simple interest to end of the year.	Total capital invested to end of the year [columns (11) + (12)].	Portion of land revenue receipts due to works, etc.	Direct charges.	Indirect charges.	Total.
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—<i>cont.</i>									
1. Navigation, Embankment and Drainage Works.									
(2) Unproductive.									
1 Vedaranniam canal.	1,32,699	3,733	1,36,432	7,45,777	8,82,209	726	726	8,174	58
2 Buckingham canal.	85,94,545	4,89,482	90,84,027	2,28,44,156	3,19,28,183	1,07,314	1,07,314	1,46,882	1,254
Total, (2) Unproductive Works.	87,27,244	4,93,215	92,20,459	2,35,89,933	3,28,10,392	1,08,040	1,08,040	1,55,056	1,312
Total, B. Navigation, etc., Works.	87,27,244	4,93,215	92,20,459	2,35,89,933	3,28,10,392	1,08,040	1,08,040	1,55,056	1,312
Total, Construction of Irrigation, etc., Works.	19,51,70,988	83,07,461	20,34,78,449	10,55,18,468	30,89,96,917	1,32,56,373	8,59,834	44,98,462	26,963
									45,25,425

Name of project.	NET REVENUE.		PERCENTAGE ON CAPITAL OUTLAY [COLUMN (11)].		Simple interest during 1938-39.	Net gain.		Net loss.	PERCENTAGE OF NET REV. INCOME [COLUMNS (20) AND (21) ON CAPITAL INVESTED COLUMN (13)].			Prescribed rate of interest as test of productivity.
	Surplus (+).	Deficit (-).	Gain.	Loss.		During 1936-37.	During 1937-38.		During 1938-39.			
										(20)	(21)		(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—cont.												
A. Irrigation Works.												
(1) Productive Works.												
1 Cauvery delta system ..	8,68,744	..	10.53	..	3,57,339	5,11,405	..	..	14.17	10.95	10.53	April 1919, 5 per cent for those sanctioned before 1st April 1919 and 1st August 1921, 6 per cent for those sanctioned between 1st August 1921 and 31st March 1937 and 4 per cent for those sanctioned on or after 1st April 1937.
2 Srivaikuntam ..	45,992	..	2.50	..	76,036	..	29,044	..	4.16	2.42	2.50	
3 Godavari delta system ..	33,66,936	..	17.75	..	7,58,220	26,08,716	..	..	21.35	17.16	17.75	
4 Mohamattur ..	..	8,101	..	9.29	3,819	..	11,920	..	17.78	6.01	9.29	
5 Thadapalli channel ..	34,615	..	19.51	..	7,487	27,128	..	..	26.73	17.03	19.51	
6 Kalingarayan channel ..	13,092	..	7.25	..	7,919	5,173	..	..	12.85	7.55	7.25	
7 Vriddhachalam ..	..	10,346	..	9.56	4,686	..	15,032	..	22.37	7.78	9.56	
8 Chembrambakkam tank.	19,353	..	2.53	..	29,311	..	9,958	..	4.37	3.40	2.53	
9 Marudur anicut system ..	45,544	..	75.75	..	2,642	42,902	..	..	94.27	47.53	75.75	
10 Pennar river canals system.	3,86,792	..	5.55	..	2,67,015	1,19,777	..	..	6.99	5.98	5.55	
11 Arkenkota channel ..	10,956	..	7.58	..	6,335	4,621	..	..	6.21	1.14	7.58	

4 per cent in the case of works sanctioned before 1st April 1919, 5 per cent for those sanctioned between 1st April 1919 and 1st August 1921, 6 per cent for those sanctioned between 1st August 1921 and 31st March 1937 and 4 per cent for those sanctioned on or after 1st April 1937.

IRRIGATION BRANCH.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1938-1939—*cont.*

Name of project.	NET REVENUE.		PERCENTAGE ON CAPITAL OUTLAY [COLUMN (11)].		Simple interest during 1938-39.	Net gain.		Net loss.	PERCENTAGE OF NET REV. ENUE [COLUMNS (20) AND (21) ON CAPITAL INVESTED COLUMN (13)].			Prescribed rate of interest as test of productivity.
	Surplus (+).	Deficit (-).	Gain.	Loss.		During 1936-37.	During 1937-38.		During 1938-39.			
										(20)	(21)		(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.				
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT— <i>cont.</i>												
<i>A. Irrigation Works—cont.</i>												
<i>(1) Productive Works—cont.</i>												
12 Tirukkoyilur anicut system.	..	63,023	..	15.79	17,514	..	80,537	12.56	0.38	—	15.79	
13 Shattatope anicut system.	50,034	..	4.59	..	46,345	3,689	..	12.07	7.02	—	4.59	
14 Cheyyar anicut system.	..	31,544	..	5.84	23,616	..	55,160	6.46	4.64	—	5.84	
15 Cumbum tank.	2,338	..	2.71	..	3,779	..	1,441	8.17	3.91	—	2.71	
16 Poincy anicut system.	..	21,496	..	7.07	13,280	..	34,776	—	9.59	—	7.07	
17 Periyar system.	..	..	4.56	..	4,70,908	23,425	..	6.18	4.49	—	4.56	
18 Kistna delta system.	..	..	12.12	..	9,02,397	17,03,175	..	15.26	15.12	—	12.12	
19 Nandiyar channel system.	7,648	..	11.64	..	2,845	4,803	..	14.90	10.87	—	10.82	
20 Chicacole minor rivers system.	..	10,453	..	3.61	12,519	..	22,972	8.13	1.50	—	3.61	
21 Lower Coleroon anicut system.	1,78,147	..	5.93	..	1,31,104	47,043	..	10.80	4.46	—	5.93	

sanctioned between 1st August 1921 and 31st March

sanctioned between 1st August 1921 and 31st March

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

4 per cent in the case of works sanctioned before 1st April 1919, 5 per cent for those sanctioned between 1st April 1919 and 1st August 1921, 6 per cent for those sanctioned on or after 1st April 1921, 4 per cent for those sanctioned on or after 1st April 1937.

Name of project.	Surplus (+).	Deficit (—).	Gain.	Loss.	during 1938-39.	Net gain.	Net loss.	During 1936-37.	During 1937-38.	During 1938-39.
	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT— <i>cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.			(30)
<i>B. Unproductive Works.</i>										
1 Kurnool-Cuddapah canal.	1,53,767	..	0.68	..	10,49,115	..	8,90,348	0.36	0.27	0.24
2 Barur tank.	3,696	..	0.80	..	19,264	..	15,568	0.63	0.23	0.40
3 Vallur anicut.	..	10,692	1.41	..	3,346	..	14,038	1.26	0.80	0.98
4 Madras Water-supply and Irrigation works.	26,383	..	..	..	73,299	..	46,916	0.82	1.43	0.56
5 Pelandurai anicut system.	..	3,613	..	0.52	28,949	..	32,562	3.48	1.95	0.32
6 Palur.	51,855	..	2.09	..	1,06,005	..	54,150	0.35	4.03	1.72
7 Muniyuru system.	29,363	..	4.90	..	26,043	3,820	..	3.41	2.22	3.36
8 Dondapad tank.	1,559	..	1.11	..	5,615	..	4,056	0.41	0.27	0.48
9 Yerur tank.	..	7,785	..	12.29	2,778	..	10,563	2.72	2.21	7.01
10 Sagileru system.	..	2,520	..	0.54	20,120	..	22,640	..	0.16	0.21
11 Attakur tank.	231	..	0.18	..	5,038	..	4,807	0.62	0.13	0.10
12 Jangamahevarapuram tank.	..	670	..	0.93	2,756	..	3,426	0.14	0.19	0.49
13 Anamasanundram-Bera-peru tank.	..	3,516	..	4.78	3,226	..	6,742	0.41	0.02	2.27
14 Hajipuram tank.	2,706	..	0.87	..	12,545	..	9,839	0.48	0.40	0.48
15 Ponnalur tank.	2,082	..	0.05	..	8,684	..	6,602	0.38	0.16	0.45
16 Markepur tank.	904	..	0.70	..	5,602	..	4,698	1.32	1.72	0.39
17 Nagavalli river system.	57,502	..	3.26	..	77,286	..	19,784	2.59	1.62	2.63
18 Vokatapuram tank.	563	..	0.16	..	16,751	..	16,188	0.04	0.04	0.08
19 Bhavanasi tank.	3,455	..	1.30	..	11,448	..	7,993	0.64	0.66	0.71
20 Yellanur tank.	297	..	0.11	..	10,764	..	10,467	0.57	0.51	0.06
21 Panjapatti reservoir.	..	..	..	..	14,750	..	14,750	..	..	..
22 Siddapur tank.	3,671	..	0.46	..	35,597	..	31,926	0.03	0.20	0.25
Total, A. Irrigation—(1) Productive.	92,91,357	..	5.97	..	66,67,813	26,23,544	..	6.70	5.42	5.03

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1938-39—*cont.*

Name of project.	NET REVENUE.		PERCENTAGE ON CAPITAL OUTLAY [COLUMN (11)].		Simple interest during 1938-39.	Net gain.		Net loss.	PERCENTAGE OF NET REV- ENUE [COLUMNS (20) AND (21) ON CAPITAL INVESTED COLUMN (13)].				Prescribed rate of interest as test of pro- ductivity.
	Surplus (+).	Deficit (-).	Gain.	Loss.		(23)	(24)		(25)	(26)	(27)	(28)		(29)	(30)
	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)		
	RS.	RS.			RS.	RS.	RS.						
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—cont.													
A. Irrigation Works—cont.													
(2) Unproductive Works—cont.													
23 Nagavaram anicut and supply channel.	600	..	0.55	..	4,328	..	4,228	-0.24	0.62	0.33			
24 Mopad reservoir system.	33,493	..	1.46	..	98,736	..	65,243	0.18	0.73	0.82			
25 Kanniyampalayam anicut.	2,676	..	2.41	..	4,825	..	2,149	1.76	1.50	1.19			
26 Thippayapalem project ..	5,446	..	0.94	..	25,198	..	19,752	..	1.33	0.77			
27 Basavannah channel ..	..	9,080	..	1.54	26,151	..	36,231	-1.33	-	-0.95			
28 Durvaleru project ..	..	..	..	..	300	..	300	..	..	..			
Total, A.—Irrigation—(2) Unproductive.	3,47,773	..	0.90	..	16,99,019	..	13,51,246	0.47	0.52	0.38			
Total, A. Irrigation Works.	96,39,130	..	4.96	..	83,66,832	12,72,298	..	4.63	3.80	3.49			

MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

<i>E. Navigation, Embankment and Drainage Works.</i>					
(2) Unproductive.					
1 Vedaranniyam canal ..	7,506	..	5.50	5,971	13,477
2 Buckingham canal ..	40,822	..	0.45	3,86,707	4,27,529
Total, (2) Unproductive Works.	48,328	..	0.52	3,92,678	4,41,006
Total, B. Navigation, etc., Works.	48,328	..	0.52	3,92,678	4,41,006
Total, Construction of Irrigation, etc., Works.	95,90,802	..	4.71	* 87,59,510	8,31,292

* Interest at 4½ per cent on the capital outlay to end of 1938-37
Interest at 4¾ per cent on the capital outlay during 1937-38
Interest at 4¼ per cent on half the capital outlay during 1938-39

	Rs.	
87,01,808	..	..
38,136	..	..
19,508	..	..
Total	..	87,59,510

CAUVERY DELTA SYSTEM—Canal Project.

No. 2.—Capital account for and to end of 1938–1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. Works—			
(1) Head works	..	20,40,615	20,40,615
(2) Main canals and branches	56,478	16,03,518	16,50,816
(3) Distributaries	..	2,80,350	2,80,350
(4) Drainage and protective works	..	16,10,179	16,10,179
(6) Special tools and plant	..	1,33,495	1,33,495
Old outlay	..	7,76,216	7,76,216
Total, Works	56,478	64,44,373	64,91,671
II. Establishment	23,091	14,20,800	14,21,003
III. Tools and plant	49	1,34,956	1,38,086
IV. Suspense	..	— 1	— 1
V. Less receipts on capital account	..	14,793	14,793
Net outlay in India and England	79,618	79,85,335	80,35,966

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

CAUVERY DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938–1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
3 Sales of water	..	10,568	(1) Head works	5,635	4,58,967
5 Receipts from plantations	..	2,51,980	(2) Main canals and branches	40,085	12,09,413
6 Receipts from other canal produce	..	1,57,894	(3) Distributaries	6,423	8,63,493
8 Navigation	..	2,580	(4) Drainage and protective works	2,655	4,43,076
9 Rents of buildings	..	27,318	(5) Special tools and plant	..	3,572
10 Fines	..	291	Add—Unclassifiable outlay	..	35,651
11 Miscellaneous	..	87,388	Total	60,098	30,14,172
Recoveries of expenditure	..	4,778			
Deduct—Refunds	..	54	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in Public Works Department	14,375	5,44,394	(1) Head works	22,835	8,54,811
Irrigation Revenue realized in Civil Department	11,49,202	6,69,30,861	(2) Main canals and branches	4,69,834	95,50,339
Total, Direct Receipts	11,63,577	6,74,75,255	(3) Distributaries	50,422	28,08,512
			(4) Drainage and protective works	20,496	15,17,416
			(5) Special tools and plant	..	1,800
			Add—Unclassifiable outlay	..	36,27,372
			Total	5,63,587	1,83,60,250
II. INDIRECT RECEIPTS—			Total, Extensions and Improvements and Maintenance and Repairs	6,24,285	2,13,74,422
Share of land revenue collected in the Civil Department	..	97,83,215	IV. ESTABLISHMENT	3,18,203	81,05,296
			V. TOOLS AND PLANT	515	2,17,437
			VI. REFUNDS OF REVENUE	..	1,919
			Deduct—Recoveries on Revenue account	..	4,921
			Total, Direct charges	9,43,003	2,97,54,153
			Share of collection charges in the Civil Department	2,07,325	46,80,101
			Indirect charges	7,025	9,45,296
			Total, Direct and Indirect charges	11,57,353	3,53,60,550

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CAUVERY DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Accounts for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
Total, Public Works and Civil Departments, Revenue.	RS. 11,99,012	RS. 7,72,58,470	* Deduct—Old maintenance charges saved to Government.	RS. 8,27,085	RS. 1,62,87,871
			Net Total ..	3,30,208	1,90,71,679
Total, Receipts ..	11,99,012	7,72,58,470	Balance, Net Revenue ..	8,68,744	5,81,86,791
			Grand Total ..	11,99,012	7,72,58,470

* Apportionment of the revenue and working expenses between the old and new works in respect of the Cauvery delta system during 1938-39—vide G.O. No. 763 L., dated 25th March 1936, and G.O. Ms. No. 2500, P.W.D., dated 29th November 1938.

Working expenses—Direct charges.										
Classification of the capital outlay.		Details of the capital outlay.		Revenue (direct and indirect).	Extensions and improvements.	Maintenance and repairs.	Pro-rata establishment charges.	Water regulation establishment charges.	Pensionary charges on private establishment.	Pensionary charges on water regulation establishment.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Old works	RS. 2,00,39,073	RS. 29,02,271	RS. 43,358	RS. 4,02,587	RS. 1,07,712	RS. 41,712	RS. 14,591	RS. 3,626	RS. 1,450	RS. 5,076
Improvements	82,53,737	11,84,637	17,340	1,01,000	66,042	16,073	5,797			
Total	2,83,92,810	41,01,283	60,698	5,03,587	2,34,354	58,385	20,388			
Working expenses—Indirect charges.										
Tools and plant.		Revenue collection charges.	Total direct charges [columns (4) to (11)].	Capitalization of abatement and revenue.	Audit and accounts.	Total indirect charges [columns (13) and (14)].	Total working expenses, direct and indirect [columns (12) + (15)].	Balance, net revenue [column (3) — (16)].		
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
RS. 384 1/2	RS. 1,48,000	RS. 8,22,007	RS. 550	RS. 4,450	RS. 5,014	RS. 8,27,085	RS. 21,35,194			

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

CAUVERY DELTA SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

Amount.	RS.	Amount.	RS.
Total interest charges to end of 1937-1938 ..	91,88,614	Net revenue realized to end of 1937-1938 ..	5,73,18,047
Total interest charges for the year 1938-1939 ..	3,57,339	Net revenue realized during 1938-1939 ..	8,68,744
Balance net revenue ..	4,86,40,838		
Total ..	5,81,86,791	Total ..	5,81,86,791

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
Capital—		
Capitalization of abatement of land revenues ..	1	91,078
Leave and pension allowances ..	564	1,47,934
Audit and accounts ..	565	29,390
Total ..	565	2,68,402
Revenue—		
Capitalization of abatement of land revenue ..	782	35,745
Leave and pension allowances ..	6,243	7,94,051
Audit and accounts ..	7,025	1,15,500
Total ..	7,025	9,45,296
Grand total ..	7,590	12,13,698

CAUVERY DELTA SYSTEM—Canal Project—cont.

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

Particulars.	CHARGE AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Direct Charges.</i>							
Works ..	13,07,547	50,16,501	63,24,048	1,20,325	1,67,623	47,298	64,44,373
Establishment ..	3,07,377	10,67,979	13,75,356	45,444	45,657	203	14,20,800
Tools and plant ..	40,659	94,076	1,34,735	221	3,351	3,130	1,34,956
Suspense account ..	..	— 1	— 1	..	..	..	— 1
Total ..	16,55,583	61,78,555	78,34,138	1,65,990	2,16,621	50,631	80,00,128
Less—Receipts on Capital account.	1,085	12,808	14,793	..	..	..	14,793
Net Total ..	16,53,598	61,65,747	78,19,345	1,65,990	2,16,621	50,631	79,85,335
<i>Indirect charges.</i>							
Capitalized abatement of land revenue.	66,184	24,894	91,078	..	..	..	91,078
Leave and pension allowances ..	57,144	90,790	1,47,934	..	..	..	1,47,934
Audit and accounts ..	..	28,187	28,187	1,203	1,076	473	29,390
Total ..	1,23,328	1,43,871	2,67,199	1,203	1,676	473	2,68,402
Grand Total ..	17,76,926	63,09,618	80,86,544	1,67,193	2,18,297	51,104	82,53,737

The construction estimate of the project was closed on 31st March 1889 and the completion report approved in G.O. No. 536 I., dated 3rd July 1891.

SRIVAİKUNTAM ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 21 of the Administrative Accounts for 1934-1935.]

SRIVAIKUNTAM ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
I. DIRECT RECEIPTS—	RS.	RS.		RS.	RS.
Water-supply of towns ..	836	51,236	I. EXTENSIONS AND IMPROVEMENTS—		
Sales of water ..	3,844	12,175	(1) Head works ..	574	59,542
Receipts from plantations ..	1,248	40,136	(2) Main canals and branches ..	..	1,05,583
Receipts from other canal produce.	2,010	1,03,999	(3) Distributaries ..	..	31,456
Water power ..	..	171	(4) Drainage and protective works.	114	2,56,392
Rents of buildings ..	282	18,271	(5) Special tools and plant ..	..	..
Fines ..	..	50	Total ..	688	4,52,973
Navigation ..	..	15	II. MAINTENANCE AND REPAIRS—		
Miscellaneous ..	109	13,809	(1) Head works ..	1,419	1,80,162
Recoveries of expenditure ..	4	350	(2) Main canals and branches ..	28,131	13,00,857
<i>Deduct—Refunds</i> ..	96	2,724	(3) Distributaries ..	579	2,69,900
Total, Revenue realized in Public Works Department ..	8,237	2,37,488	(4) Drainage and protective works.	28,537	8,65,527
Irrigation Revenue realized in Civil Department ..	1,19,057	77,79,756	(5) Special tools and plant ..	..	12
Total, Direct Receipts ..	1,27,294	80,17,244	<i>Add—Unclassifiable outlay</i> ..	..	..
			Total ..	58,660	26,16,458
			Total, Extensions and Improvements and Maintenance and Repairs ..	59,354	30,69,431
			IV. ESTABLISHMENT ..	24,593	11,91,523
			V. TOOLS AND PLANT ..	..	10,089
			VI. REFUNDS OF REVENUE ..	..	600
			<i>Deduct—Recoveries on Revenue account</i> ..	..	55
			Total, Direct Charges ..	83,947	42,71,048

II. INDIRECT RECEIPTS—
 Share of land revenue collected in the Civil Department
 Total, Public Works and Civil Departments, Revenue
 Total, Receipts ..

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1938-1939.

Share of collection charges in the Civil Department	6,027	4,10,929
Indirect charges	599	1,30,993
Total, Direct and Indirect Charges.	90,573	48,13,570
<i>Deduct—* Old maintenance charges saved to Government</i>	7,781	5,09,199
Net Total ..	82,792	43,04,371
Balance, Not Revenue ..	45,992	38,20,462
Grand Total ..	1,28,784	81,24,833

* Direct—
 Extensions and improvements .. 352
 Maintenance and repairs .. 5,208
 Establishment .. 2,165
 Tools and plant

Total, Direct .. 7,725
 Indirect 56
 Total, Direct and Indirect .. 7,781

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SRIVAİKUNTAM ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937–1938 ..	35,94,474	Net revenue realized to end of 1937–1938 ..	37,74,470
Total interest charges for the year 1938–39 ..	75,036	Net revenue realized during 1938–1939 ..	45,092
Balance, net revenue ..	1,50,952		
Total ..	38,20,462	Total ..	38,20,462

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
Capital—		
Capitalization of abatement of land revenue ..	..	41,229
Leave and pension allowances	..	66,298
Audit and accounts	..	77
Total ..	..	1,07,604
Revenue—		
Capitalization of abatement of land revenue ..	5	5,444
Leave and pension allowances	..	1,05,014
Audit and accounts	594	20,535
Total ..	599	1,30,993
Grand Total ..	599	2,38,597

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

SRIVAİKUNTAM ANICUT SYSTEM—*Canal Project*—cont.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanctions. RS.	Charges to date.	Amount of sanctioned estimate.	
<i>Direct Charges.</i>					
Works ..	10,50,679	2,73,004	..	..	13,23,683
Establishment ..	2,90,193	43,160	..	..	3,33,353
Tools and plant ..	10,524	268	..	..	10,792
Suspense account ..	..	..	..	..	..
Total ..	13,51,396	3,16,432	..	..	16,67,828
Less—Receipts on Capital account.	369	..	..	..	369
Net Total ..	13,51,027	3,16,432	..	..	16,67,459
<i>Indirect Charges.</i>					
Capitalized abatement of land revenue ..	40,408	821	..	..	41,229
Leave and pension allowances ..	60,259	6,039	..	..	66,298
Audit and accounts ..	..	77	..	..	77
Total ..	1,00,667	6,937	..	..	1,07,604
Grand Total ..	14,51,694	3,23,369	..	..	17,75,063

The construction estimate of the Project was closed on 31st March 1889 and the completion report approved in G.O. No. 802 I., dated 17th October 1891.

GODAVARI DELTA SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Hheads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I Works—			
(1) Head works ..	500	9,58,672	9,58,672
(2) Main canals and branches ..	7,712	30,24,298	30,35,852
(3) Distributaries ..	53,604	14,89,148	15,85,951
(4) Drainage and protective works ..	7,831	27,65,733	27,87,834
(6) Special tools and plant. Old outlay ..		1,14,637	1,14,637
		42,99,072	42,99,072
Total, Works ..	68,647	1,26,51,560	1,27,82,018
II Establishment ..	25,766	32,95,093	33,02,046
III Tools and plant ..	780	9,58,546	9,64,757
IV Suspense ..			8,421
V Less receipts on capital account.	103	8,421	
Net outlay in India and England ..	95,090	1,68,96,778	1,70,40,406

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

GODAVARI DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
1 Water-rates ..	63	63	(1) Head works ..	12,738	3,05,954
3 Sale of water ..	2,539	61,086	(2) Main canals and branches ..	1,31,200	10,58,339
4 Water-supply of towns ..	1,406	36,882	(3) Distributaries ..	12,660	8,52,448
5 Receipts from plantations ..	4,063	5,11,191	(4) Drainage and protective works ..	37,868	3,11,780
6 Receipts from other canal produce.	39,881	11,39,965	(5) Special tools and plant ..		87,882
8 Navigation receipts ..	1,75,248	70,17,092	Total ..	93,410	26,16,403
9 Rents of buildings ..	1,201	30,166			
10 Fines ..	1	6,171	II. MAINTENANCE AND REPAIRS—		
11 Miscellaneous ..	3,757	4,61,382	(1) Head works ..	39,276	23,76,468
Recoveries of expenditure ..	1,198	46,571	(2) Main canals and branches ..	5,22,009	1,25,95,616
Deduct—Refunds ..	20,465	35,219	(3) Distributaries ..	90,857	51,52,232
Total Revenue realized in Public Works Department ..	2,08,829	92,74,350	(4) Drainage and protective works ..	1,37,097	37,25,727
Irrigation Revenue realized in Civil Department ..	42,07,620	21,55,02,531	(5) Special tools and plant ..		4,01,516
Total, Direct Receipts ..	44,16,449	22,47,76,881	Add—Unclassifiable outlay ..		27,27,548
II. INDIRECT RECEIPTS—			Total ..	7,89,239	2,69,79,107
Share of land revenue collected in the Civil Department ..	2,30,403	1,41,61,403	Total, Extensions and Improvements and Maintenance and Repairs ..	6,95,829	2,95,95,510
Total, Public Works and Civil Department—Revenue ..	46,46,852	23,89,38,284	IV. ESTABLISHMENT ..	3,49,078	1,71,88,748
			V. TOOLS AND PLANT ..	7,917	28,42,144
			VI. REFUNDS OF REVENUE ..		19,950
			Deduct—Recoveries on Revenue account ..		33,735
			Total, Direct Charges ..	10,52,824	4,95,62,617
			Share of collection charges in the Civil Department ..	2,19,994	1,22,34,711
			Indirect charges ..	7,098	25,16,984
			Total, Direct and Indirect Charges ..	12,79,916	6,40,14,312
			Balance, net revenue ..	33,66,936	17,40,23,972
Total, Receipts ..	46,46,852	23,89,38,284	Grand Total ..	46,46,852	23,89,38,284

GODAVARI DELTA SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938	3,31,49,630	Net revenue realized to end of 1937-1938	17,15,57,036
Total interest charges for the year 1938-1939	7,58,220	Net revenue realized during 1938-1939	33,86,936
Balance, net revenue	14,10,16,122		
Total	17,49,23,972	Total	17,49,23,972

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
Capital—		
Capitalization of abatement of land revenue	81	15,37,285
Leave and pension allowances	..	5,08,757
Audit and accounts	686	23,964
Total	767	20,70,006
Revenue—		
Capitalization of abatement of land revenue	140	1,05,222
Leave and pension allowances	..	19,84,645
Audit and accounts	6,958	1,27,117
Total	7,098	22,16,984
Grand Total	7,865	42,86,990

GODAVARI DELTA SYSTEM—Canal Project—cont.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Total. RS.	Charges to date. RS.	Amount of sanctioned estimate. RS.	Unspent balance of estimate. RS.	
Direct Charges.							
Works	79,85,366	42,93,608	1,22,80,974	3,70,586	5,01,044	1,30,458	1,26,51,560
Establishment	19,55,654	12,12,980	31,68,634	1,26,459	1,33,412	6,953	32,95,093
Tools and plant	8,69,822	85,095	9,54,917	3,629	9,840	6,211	9,58,546
Suspense account	..	..	..	..	..	..	..
Total	1,08,10,842	55,93,683	1,64,04,525	5,00,674	6,44,296	1,43,622	1,69,05,189
Less—Receipts on capital account.	933	7,488	8,421	..	..	..	8,421
Net Total	1,08,09,909	55,86,195	1,63,96,104	5,00,674	6,44,296	1,43,622	1,68,96,778
Indirect Charges.							
Capitalized abatement of land revenue	14,95,991	41,294	15,37,285	..	5,807	5,807	15,37,285
Leave and pension allowances	3,92,601	1,16,166	5,08,757	3,706	4,918	1,212	5,08,757
Audit and accounts	..	20,258	20,258	3,706	10,725	7,019	23,964
Total	18,88,592	1,77,708	20,66,300	7,419	6,55,021	1,50,641	20,70,006
Grand Total	1,26,98,501	57,63,903	1,84,62,404	5,04,380	6,55,021	1,50,641	1,89,66,784

The construction estimate of the Project was closed on 31st March 1890 and the completion report approved in G.O. No. 365 I., dated 23rd April 1891.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MEHAMATTUR ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I Works—			
(1) Head works		56,967	56,967
(2) Main canals and branches ..	315	10,215	10,215
(3) Distributaries		563	563
Total, Works ..	315	67,745	67,745
II Establishment	128	17,320	17,320
III Tools and plant		26	26
Total outlay in India and England ..	443	85,091	85,091

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MEHAMATTUR ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
I. Receipts from plantations	52	1,808	(1) Head works	7	2,945
6. Receipts from other canal produce.	14	3,175	(2) Main canals and branches ..	490	15,438
9. Rents of buildings		126	(3) Distributaries		5,606
			(4) Drainage and protective works		
			(5) Special tools and plant ..		9,521
			Add—Unclassifiable outlay		
			Total ..	497	33,510
II. Miscellaneous	500	2,865	II. MAINTENANCE AND REPAIRS—		
Recoveries of expenditure		16	(1) Head works	2,811	61,275
Deduct—Refunds		49	(2) Main canals and branches ..	4,928	87,679
Total Revenue realized in Public Works Department.	566	7,941	(3) Distributaries	5,057	46,450
			(4) Drainage and protective works.		862
			(5) Special tools and plant ..		45,826
			Add—Unclassifiable outlay.		
			Total ..	12,796	2,42,092
Irrigation revenue realized in Civil Department.	10,158	9,08,169	Total, Extensions and Improvements and Maintenance and Repairs ..	13,293	2,75,602
			IV. ESTABLISHMENT	5,973	81,729
			V. TOOLS AND PLANT	12	685
			VI. REFUNDS OF REVENUE ..		4
			Deduct—Recoveries on Revenue Account ..		9
Total, Direct Receipts ..	10,724	9,16,110	Total, Direct Charges ..	19,278	3,58,011

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

MEHAMATTUR ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	196	5,150	Share of collection charges in the Civil Department	514	45,628
Total Public Works and Civil Department Revenue	10,920	9,21,260	Indirect charges	133	8,235
Total, receipts	10,920	9,21,260	Total, Direct and Indirect Charges. Deduct—Old maintenance charges saved to Government (a)	19,925	4,11,874
			Net Total. Balance, net revenue	904	33,095
			Grand Total	19,021	3,78,779
				— 8,101	5,42,481
				10,920	9,21,260
			RS.		
(a) Extensions and Improvements			126		
Maintenance and Repairs			510		
Establishment			261		
Tools and Plant			1		
Total, Direct Charges			898		
Indirect Charges			6		
Direct and Indirect			904		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MEHAMATTUR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938.	1,82,519	Net revenue realized to end of 1937-1938.	5,50,582
Total interest charges for the year 1938-1939.	3,819	Net revenue realized during 1938-1939.	— 8,101
Balance, net revenue ..	3,56,143		
Total ..	5,42,481	Total ..	5,42,481

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	45
Leave and pension allowances	..	1,958
Audit and accounts	3	90
Total ..	3	2,093
REVENUE—		
Capitalization of abatement of land revenue	..	354
Leave and pension allowances	..	6,986
Audit and accounts	133	895
Total ..	133	8,235
Grand Total ..	136	10,328

MEHAMATTUR ANICUT SYSTEM—Canal Project—cont.
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.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Direct Charges.</i>							
Works							
Establishment	56,289	11,456	67,745	..	..	..	67,745
Tools and plant	12,946	4,374	17,320	..	..	..	17,320
Suspense account	..	26	26	..	..	..	26
	..	..	..	..	..	..	..
Total	69,235	15,856	85,091	..	..	..	85,091
Less—Receipts on Capital Account.	..	..	..	..	..	..	..
Net Total	69,235	15,856	85,091	..	..	..	85,091
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue	..	45	45	..	..	..	45
Leave and pension allowances	1,812	146	1,958	..	..	..	1,958
Audit and accounts	..	90	90	..	..	..	90
	..	..	..	..	..	..	..
Total	1,812	281	2,093	..	..	..	2,093
Grand Total	71,047	16,137	87,184	..	..	..	87,184

The construction estimate of the project was closed in March 1931.

THADAPALLI CHANNEL—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 37 of the Administrative Accounts for 1934-35.]

I. INDIRECT RECEIPTS--

Share of land revenue collected in the Civil Department	..	..	..
Total, Public Works and Civil Departments, Revenue	..	..	..

[illegible]

*** Direct**

Extensions and improvements	..	3,569
Maintenance and repairs	..	..
Establishment	..	1,013
Tools and Plant	..	4
Indirect	Total, Direct ..	4,586
	.. ..	36
Total, Direct and Indirect	..	4,622

THADAPALLI CHANNEL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938 ..	3,55,552	Net revenue realized to end of 1937-1938 ..	20,97,550
Total interest charges for the year 1938-1939 ..	7,487	Net revenue realized during 1938-1939 ..	34,615
Balance, net revenue ..	17,69,132		
Total ..	21,32,171	Total ..	21,32,171

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	6,915
Leave and pension allowances ..	..	4,135
Audit and accounts ..	..	13
Total ..	..	11,063
REVENUE—		
Capitalization of abatement of land revenue ..	..	155
Leave and pension allowances ..	..	18,518
Audit and accounts ..	84	2,798
Total ..	84	21,471
Grand Total ..	84	32,534

THADAPALLI CHANNEL—Canal Project—cont.

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.	
	RS.	RS.	RS.				RS.
Direct Charges.							
Works ..	70,897	65,034	1,36,531	..	..	..	1,36,531
Establishment ..	16,306	13,530	29,836	..	..	..	29,836
Tools and plant ..	..	16	16	..	..	..	16
Suspense account ..	..	..	..	..	..	..	..
Total ..	87,203	79,180	1,66,383	..	..	..	1,66,383
Less—Receipts on capital account	..	..	..	..	..	..	..
Net Total ..	87,203	79,180	1,66,383	..	..	..	1,66,383
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
Audit and accounts ..	..	13	13	..	..	..	13
Total ..	2,283	8,780	11,063	..	..	..	11,063
Grand Total ..	89,486	87,960	1,77,446	..	..	..	1,77,446

The construction estimate of the Project was closed in 1933.

KALINGARAYAN CHANNEL—*Canal Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 42 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

KALINGARAYAN CHANNEL—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	Total.		Charges.	Total.	
	During the year. RS.	To end of the year. RS.		During the year. RS.	To end of the year. RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations ..			(1) Headworks ..	1	3,541
6. Receipts from other canal produce ..	1,636	24,185	(2) Main canals and branches ..	3,812	57,097
8. Navigation receipts ..	..	11,199	(3) Distributaries ..	..	280
9. Rents of buildings ..	5	16	(4) Drainage and protective works ..	..	..
11. Miscellaneous ..	56	1,371	(5) Special tools and plant ..	..	11,569
Deduct—Refunds ..	25	41,123	Add—Unclassifiable outlay ..	..	..
Total, Revenue realized in Public Works Department ..	4	100	Total ..	3,813	72,487
Irrigation revenue realized in Civil department ..	1,718	77,794	II. MAINTENANCE AND REPAIRS—		
Total, Direct Receipts ..	26,177	20,03,977	(1) Head works ..	941	1,00,647
	27,895	20,81,771	(2) Main canals and branches ..	9,575	3,77,440
			(3) Distributaries ..	..	..
			(4) Drainage and protective works ..	..	..
			(5) Special tools and plant ..	..	50
			Add—Unclassifiable outlay ..	..	3,53,846
			Total ..	10,516	8,31,883
			Total, Extensions and Improvements and Maintenance and Repairs ..	14,329	9,04,370
			IV. ESTABLISHMENT ..	4,637	2,28,272
			V. TOOLS AND PLANT ..	14	3,362
			VI. REFUNDS OF REVENUE ..	..	243
			Deduct—Recoveries on Revenue account ..	..	9
			Total, Direct charges ..	18,980	11,36,238

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KALINGARAYAN CHANNEL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.
	During the year. RS.	To end of the year. RS.	
II. INDIRECT RECEIPTS—			
Share of and revenue collected in the Civil Department	483	30,001	Share of collection charges in the Civil Department
Total, Public Works and Civil Departments, Revenue	28,378	21,11,772	Indirect charges
Total, Receipt	28,378	21,11,772	Total, Direct and Indirect Charges..
			Deduct—Old maintenance charges saved to Government (a)
			Balance, net revenue
			Net total
			Grand total
			RS.
(a) Direct—			3,992
Extensions and improvements			.. ..
Maintenance and repairs			.. ..
Establishment			1,134
Tools and plant			4
Indirect			Total, Direct
			5,130
			40
			Total, Direct and Indirect
			5,170

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

KALINGARAYAN CHANNEL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938 ..	2,86,639	Net revenue realized to end of 1937-1938	9,75,542
Total interest charges for the year 1938-1939 ..	7,919	Net revenue realized during 1938-1939	13,092
Balance, net revenue ..	6,94,076		
Total ..	9,88,634	Total ..	9,88,634

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Leave and pension allowances	..	4,506
Total ..	..	4,506
REVENUE—		
Leave and pension allowances	..	23,737
Audit and accounts	143	2,605
Total ..	143	26,342
Grand Total ..	143	30,848

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KALINGARAYAN CHANNEL—Canal Project—cont.

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.	rs.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		
	rs.	rs.	rs.					
<i>Direct charges.</i>								
Works	43,775	1,00,014	1,43,789	..	..	..	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	..	..	..	1,75,980	
Less—Receipts on Capital account.	..	..	..	..	..	..	..	
Net Total	53,843	1,22,137	1,75,980	..	..	..	1,75,980	
<i>Indirect Charges.</i>								
Capitalized abatement of land revenue	1,410	3,096	4,506	..	..	..	4,506	
Leave and pension allowances	1,410	3,096	4,506	..	..	..	4,506	
Total	55,253	1,25,233	1,80,486	..	..	..	1,80,486	
Grand Total								

The construction estimate of the project was closed in 1933.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

VRIDDHACHALAM ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 43 of the Administrative Accounts for 1935-1936.]

VRIDDHACHALAM ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSION AND IMPROVEMENTS—		
Sales of water	..	322	(1) Headworks	658	8,316
5 Receipts from plantations	363	6,423	(2) Main canals and branches	3,949	29,520
6 Receipts from other canal produce.	12	3,328	(3) Distributaries	289	17,646
8 Navigation receipts	..	1	(4) Drainage and protective works.	..	..
9 Rents of buildings	9	116	(5) Special tools and plant	..	1,968
10 Fines	..	5	Add—Unclassifiable outlay	..	..
11 Miscellaneous	..	2,061	Total	4,896	57,450
Recoveries of expenditure	..	36	II. MAINTENANCE AND REPAIRS—		
Deduct—Refunds	..	744	(1) Headworks	2,125	76,944
Total, Revenue realized in Public Works Department.	384	11,548	(2) Main canals and branches	10,060	1,20,775
Irrigation revenue realized in Civil Department	17,052	13,87,718	(3) Distributaries	1,411	66,290
			(4) Drainage and protective works.	..	1,089
			(5) Special tools and plant	..	..
			Add—Unclassifiable outlay	..	53,862
Total, Direct Receipts	17,436	13,99,266	Total	13,596	3,18,960
II. INDIRECT RECEIPTS—			Total, Extensions and Improvements and Maintenance and Repairs.	18,492	3,76,410
Share of land revenue collected in the Civil Department.	339	24,582	IV. ESTABLISHMENT	8,509	1,14,013
Total, Public Works and Civil Departments, Revenue.	17,775	14,23,848	V. TOOLS AND PLANT	15	1,153
			VI. REFUNDS OF REVENUE	..	..
Total, Receipts	17,775	14,23,848	Deduct—Recoveries on revenue account	..	62
			Total, Direct Charges	27,016	4,91,514
			Share of collection charges in the Civil Department.	868	70,603
			Indirect charges	237	10,729
			Total, Direct and Indirect charges.	28,121	5,72,846
			Balance, net revenue	—	8,51,062

154

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

155

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

VRIDDHACHALAM ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-38.	1,71,279	Net revenue realized to end of 1937-38.	8,61,348
Total interest charges for the year 1938-39.	4,686	Net revenue realized during 1938-39.	— 10,346
Balance, net revenue	6,75,037		
Total	8,51,002	Total	8,51,002

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	1,737
Leave and pension allowances	..	2,180
Audit and accounts	..	143
Total	..	4,060
REVENUE—		
Capitalization of abatement of land revenue	52	410
Leave and pension allowances	..	8,917
Audit and accounts	185	1,402
Total	237	10,729
Grand Total	237	14,789

VRIDDHACHALAM ANICUT SYSTEM—Canal Project—cont.

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 sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
	RS.	RS.	RS.				RS.
<i>Direct Charges.</i>							
Works	39,405	43,551	82,956	..	..	..	82,956
Establishment	9,063	12,062	21,125	..	..	..	21,125
Tools and plant	..	63	63	..	..	..	63
Suspense account	..	..	..	..	..	..	..
Total	48,468	55,676	1,04,144	..	..	..	1,04,144
Less—Receipts on Capital account.	..	..	..	..	..	..	..
Not Total	48,468	55,676	1,04,144	..	..	..	1,04,144
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue.	..	1,737	1,737	..	..	..	1,737
Leave and pension allowances	1,269	911	2,180	..	..	..	2,180
Audit and accounts	..	143	143	..	..	..	143
Total	1,269	2,791	4,060	..	..	..	4,060
Grand Total	49,737	58,467	1,08,204	..	..	..	1,08,204

CHEMBRAMBAKKAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 51 of the Administrative Accounts for 1934-35.]

CHENBRAMBAKKAM TANK—Tank Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year. RS.	To end of the year. RS.		During the year. RS.	To end of the year. RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5 Receipts from plantations	..	445	(1) Head works	..	4,070
6 Receipts from other canal produce.	..	2,370	(2) Main canals and branches ..	..	43,319
9 Rents of buildings	71	1,505	(3) Distributaries	..	4,448
10 Fines	..	5	(4) Drainage and protective works.	..	..
Recoveries of expenditure	..	29	(5) Special tools and plant ..	..	..
11 Miscellaneous	58	11,758	Total ..	..	52,437
Deduct—Refunds	..	267			
Total, Revenue realized in Public Works Department.	129	15,845	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department.	21,726	23,81,982	(1) Head works	..	37,198
	21,855	23,97,827	(2) Main canals and branches ..	7,207	4,48,119
Total, Direct Receipts ..	..	53,536	(3) Distributaries	..	16,325
II. INDIRECT RECEIPTS—			(4) Drainage and protective works.	..	..
Share of land revenue collected in the Civil Department.	957	..	(5) Special tools and plant ..	..	..
	22,812	24,51,363	Add—Unclassifiable outlay ..	..	..
Total, Public Works and Civil Departments—Revenue.	..	..	Total ..	7,207	5,01,642
			Total, Extensions and Improvements and Maintenance and Repairs.	7,207	5,54,079
			IV. ESTABLISHMENT	1,140	1,41,047
			V. TOOLS AND PLANT	3	2,580
			VI. REFUNDS OF REVENUE	..	45
			Deduct—Recoveries on revenue account.	..	296
			Total, Direct Charges	8,350	6,98,355
			Share of collection charges in the Civil Department.	1,134	1,29,644
			Indirect charges	72	20,171
			Total, Direct and Indirect Charges ..	9,556	8,48,170

Total, receipts ..	22,812	24,51,363	Deduct—Old maintenance charges saved to Government (a)	6,097	4,74,592
(a) Direct—			Balance, net revenue	3,459	3,73,578
Extensions and improvements	..	..	Net Total	19,353	20,77,785
Maintenance and repairs ..	..	..	Grand Total	22,812	24,51,363
Establishment	..	..			
Tools and plant	..	..			
Indirect charges	..	..			
			Total, Direct Charges	6,043	..
			.. ..	54	..
			Total, Direct and Indirect ..	6,097	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CHEMBRAMBAKKAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938 ..	15,51,181	Net revenue realized to end of 1937-1938 ..	20,58,432
Total interest charges for the year 1938-1939 ..	29,311	Net revenue realized during 1938-1939 ..	19,353
Balance, net revenue ..	4,97,293		
Total ..	20,77,785	Total ..	20,77,785

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	85,701
Leave and pension allowances ..	..	27,081
Audit and accounts ..	..	13
Total ..	..	1,12,795
REVENUE—		
Leave and pension allowances ..	..	18,491
Audit and accounts ..	72	1,830
Total ..	72	20,171
Grand Total ..	72	1,32,966

CHEMBRAMBAKKAM TANK—*Tank Project*—cont.

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.	Charges to date.	Amount of sanctioned estimate.	
	RS.	RS.			RS.
<i>Direct Charges.</i>					
Works ..	4,91,801	22,454	..	..	5,14,255
Establishment ..	1,24,534	4,424	..	..	1,28,958
Tools and plant ..	8,204	45	..	..	8,249
Suspense account ..	..	..	..	..	..
Total ..	6,24,539	26,923	..	..	6,51,462
<i>Less—Receipts on Capital Account.</i>					
Net Total ..	114	..	..	..	114
	6,24,425	26,923	..	..	6,51,348
<i>Indirect Charges.</i>					
Capitalized abatement of land revenue.	85,701	..	..	..	85,701
Leave and pension allowances ..	20,463	618	..	..	27,081
Audit and accounts ..	..	13	..	..	13
Total ..	1,12,164	631	..	..	1,12,795
Grand Total ..	7,36,589	27,554	..	..	7,64,143

The construction estimate of the project was closed on 31st March 1939.

MINISTRATIVE ACCOUNTS
OR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MARUDUR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1938–1939.

[Vide details on page 56 of the Administrative Accounts for 1934–35.]

MARUDUR ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1938–1939.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year.	To end of the year.	During the year.	To end of the year.	During the year.	To end of the year.
I. DIRECT RECEIPTS—	RS.	RS.			RS.	RS.
3. Sales of water	..	16	I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations	177	10,116	(1) Head works		..	1,512
6. Receipts from other canal produce	898	37,403	(2) Main canals and branches	504	..	48,656
9. Rents of buildings	9	133	(3) Distributaries	..	..	10,636
11. Miscellaneous	31	10,565	(4) Drainage and protective works	..	..	25,532
Recoveries of expenditure	2	148	(5) Special tools and plant	..	..	..
Deduct—Refunds	..	545	4dd—Unclassifiable outlay	..	..	11,000
Total revenue realized in Public Works Department	1,117	57,836	Total	600	..	97,336
Irrigation revenue realized in Civil Department	62,648	54,40,730	II. MAINTENANCE AND REPAIRS—			
Total, Direct Receipts	63,765	54,98,566	(1) Head works	1,176	..	76,494
			(2) Main canals and branches	13,509	..	5,25,457
			(3) Distributaries	..	..	1,04,950
			(4) Drainage and protective works	345	..	55,463
			(5) Special tools and plant	..	..	..
			4dd—Unclassifiable outlay	..	..	1,98,634
			Total	15,030	..	9,60,998
			Total, Extensions and Improvements and Maintenance and Repairs	15,630	..	10,58,334
			IV. ESTABLISHMENT	6,147	..	2,93,202
			V. TOOLS AND PLANT	..	..	949
			VI. REFUNDS OF REVENUE	..	..	145
			Deduct—Recoveries on Revenue account	..	..	17
			Total, Direct Charges	21,777	..	13,52,613

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

MARUDUR ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
II. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	279	16,099	Share of collection charges in the Civil Department	3,146	2,72,842
Total, Public Works and Civil Departments, Revenue	64,044	55,14,665	Indirect charges	156	28,168
			Total, Direct and Indirect Charges.	25,079	16,53,623
			Deduct—Old maintenance charges saved to Government (a)	6,579	2,46,783
			Net Total	18,500	14,06,840
			Balance, Net revenue	45,544	41,07,825
Total, Receipts	64,044	55,14,665	Grand Total	64,044	55,14,665

(a) Direct—	RS.
Extensions and Improvements	200
Maintenance and Repairs	4,500
Establishment	1,832
Tools and Plant	..
Indirect	6,532
Total, Direct Charges	47
Total, Direct and Indirect	6,579

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MARUDUR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-38	1,02,696	Net revenue realized to end of 1937-1938	40,62,281
Total interest charges for the year 1938-1939	2,642	Net revenue realized during 1938-1939	45,544
Balance, Net revenue	40,02,487		
Total	41,07,825	Total	41,07,825

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Leave and pension allowances	..	1,336
Audit and accounts	..	65
Total	..	1,401
REVENUE—		
Capitalization of abatement of land revenue	..	697
Leave and pension allowances	..	22,113
Audit and accounts	156	5,358
Total	156	28,168
Grand Total	156	29,569

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MARUDUR ANICUT SYSTEM—Canal Project—cont.

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.
	RS.	RS.	Expenditure against construction estimate.	Expenditure against open canal sanction.	
<i>Direct Charges.</i>					
Works	32,590	15,335			47,925
Establishment	7,496	3,324			10,820
Tools and plant	..	— 24			— 24
Suspense account	..	..			..
Total	40,086	18,635			58,721
<i>Less—Receipts on Capital account.</i>	..	..			..
Net Total	40,086	18,635			58,721
<i>Indirect Charges.</i>					
Capitalized abatement of land revenue	1,049	287			1,336
Leave and pension allowances	..	65			65
Audit and accounts	..	..			..
Total	1,049	352			1,401
Grand Total	41,135	18,987			60,122

The construction estimate of the Project was closed in 1893.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

PENNAR RIVER CANALS SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
Works—			
(1) Head works	— 3,380	9,09,676	9,16,949
(2) Main canals and branches	..	16,13,408	16,13,408
Reservoirs	..	77,965	77,965
(3) Distributaries	28,500	13,31,999	13,74,949
(4) Drainage and Protective works	23	3,34,006	3,39,483
(5) Water courses	320	320	14,340
Unforeseen works	..	60	60
Old outlay	..	5,26,117	5,26,117
Total, Works	25,463	47,93,551	48,63,271
II. Establishment	8,580	10,17,205	10,31,842
II. Tools and plant	32	1,44,979	1,47,489
V. Less—Receipts on capital account	..	2,858	2,858
Net outlay in India and England	34,075	59,52,877	60,39,744

IRRIGATION BRANCH:

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

PENNAR RIVER CANALS SYSTEM--Canal Project--cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.		TOTAL		Charges.		TOTAL	
	During the year. rs.	To end of the year. rs.		During the year. rs.	To end of the year. rs.		
I. DIRECT RECEIPTS—							
3 Sales of water	..	11	I. EXTENSIONS AND IMPROVEMENTS—				
5 Receipts from plantations	203	2,974	(1) Head works	831	22,306		
6 Receipts from other canal produce.	1,150	1,03,635	(2) Main canals and branches	..	1,35,429		
8 Navigation	444	3,214	(3) Distributaries	5,373	2,86,406		
9 Bonds of buildings	470	18,376	(4) Drainage and protective works.	110	39,936		
10 Fines	..	11	(5) Special tools and plant	..	207		
11 Miscellaneous	166	20,839	Add—Unclassifiable outlay	..	8,370		
Recoveries of expenditure	476	6,393	Total	6,314	4,92,240		
Deduct—Refunds	301	6,228					
Total, Revenue realized in Public Works Department	2,613	1,49,275	II. MAINTENANCE AND REPAIRS—				
Irrigation revenue realized in Civil Department	4,36,619	2,48,58,044	(1) Head works	7,961	6,05,215		
Total, Direct Receipts	4,39,232	2,50,07,319	(2) Main canals and branches	18,109	17,00,646		
			(3) Distributaries	60,664	16,15,710		
			(4) Drainage and protective works.	4,592	1,76,006		
			(5) Special tools and plant	..	549		
			Add—Unclassifiable outlay	..	23,236		
II. INDIRECT RECEIPTS—			Total	91,326	41,21,362		
Share of land revenue collected in the Civil Department	72,508	30,90,093	III. COMPENSATION				
Total, Public Works and Civil Departments, Revenue	5,11,740	2,80,97,412	Total, Extensions and Improvements and Maintenance and Repairs	97,640	46,20,992		
			IV. ESTABLISHMENT	41,867	21,48,435		
			V. TOOLS AND PLANT	120	38,596		
			VI. REFUNDS OF REVENUE	..	1,907		
			Total, Direct Charges	1,39,627	68,09,930		
			Share of collection charges in the Civil Department	24,323	14,08,708		
			Indirect charges	976	2,80,195		
			Total, Direct and Indirect Charges	1,04,626	86,07,833		

* *Deduct*—Old maintenance charges saved to Government

Total Receipts ..	<u>\$5,117,400</u>		
Deduct—Old maintenance charges saved to Government ..		39,978	<u>26,055,484</u>
New Total ..		<u>1,249,428</u>	<u>59,023,349</u>
Balance, Not revenue ..			<u>2,219,950,663</u>
Grand Total ..		<u>5,117,400</u>	<u>2,809,974,122</u>

* Direct:—

Direct --			
Extensions and improvements	..	..	2,909
Maintenance and repairs	..	..	25,744
Establishment	..	..	9,992
Tools and plant	..	..	37
		Total, Direct ..	39,682
Indirect ..	..	..	296
		Total, Direct and Indirect ..	39,978

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

PENNAR RIVER CANALS SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938 ..	1,14,21,719	Net revenue realized to end of 1937-1938 ..	2,18,08,27
Total interest charges for the year 1938-1939 ..	2,67,015	Net revenue realized during 1938-1939 ..	3,86,79
Balance, net revenue ..	1,05,06,329		
Total ..	2,21,95,063	Total ..	2,21,95,06

No. 5.—Account of Indirect Charges for and to end of 1938-1939

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	8,56,76
Leave and pension allowances ..	..	1,57,65
Audit and accounts ..	255	1,73
Total ..	255	10,16,16
REVENUE—		
Capitalization of abatement of land revenue ..	..	33,35
Leave and pension allowances ..	..	2,30,95
Audit and accounts ..	976	18,891
Total ..	976	2,89,19
Grand Total ..	1,231	13,05,35

ADMINISTRATIVE ACCOUNTS
OR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

PENNAR RIVER CANALS SYSTEM—Canal Project—cont.
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 sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direct Charges.							
Works Establishment ..	37,49,097	9,77,374	47,26,471	67,080	1,36,860	69,730	47,93,551
Tools and plant ..	8,06,532	1,88,981	9,94,513	22,692	37,329	14,637	10,17,205
Suspense account ..	1,42,971	1,782	1,44,753	226	2,736	2,510	1,44,979
Total ..	46,97,600	11,68,137	58,65,737	89,998	1,76,865	86,867	59,55,735
Less—Receipts on Capital Account.	55	2,803	2,858	..	..	..	2,858
Net Total ..	46,97,545	11,65,334	58,62,879	89,998	1,76,865	86,867	59,52,877
Indirect Charges.							
Capitalized abatement of land revenue ..	7,99,748	57,019	8,56,767	..	1,007	1,067	8,56,767
Leave and pension allowances ..	1,35,090	22,567	1,57,657	..	..	..	1,57,657
Audit and accounts ..	..	1,061	1,061	671	1,368	697	1,732
Total ..	9,34,838	80,647	10,15,485	671	2,375	1,704	10,16,156
Grand Total ..	56,32,383	12,45,981	68,78,364	90,669	1,79,240	88,571	69,69,033

The construction estimate of the Project was closed on 31st March 1894 and the completion report approved in G.Os. Nos. 763 I., dated 3rd October 1891 and 559 I., dated 22nd July 1898.

ARKENKOTA CHANNEL—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 67 of the Administrative Accounts
for 1934-1935.]

ARKENKOTA CHAN IN BLUWILLO & TOPEKA COLO.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
Plantations	281	3,823	(1) Head works	..	1,130
			(2) Main canals and branches	..	45,088
			(3) Distributaries	..	882
Receipts from other canal produce	..	751	(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	11,475
Fines	..	1	Add—Unclassifiable outlay	..	..
Miscellaneous	21	5,743	Total	..	58,575
			II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in Public Works Department	302	10,318	(1) Head works	..	4,366
			(2) Main canals and branches	4,101	1,90,768
Irrigation Revenue realized in Civil Department	15,455	9,34,672	(3) Distributaries	..	2,514
			(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	1,73,223
Total, Direct Receipts	15,757	9,44,990	Add—Unclassifiable outlay	..	..
			Total	4,101	3,70,871
			Total, Extensions and Improvements and Maintenance and Repairs	4,101	4,29,446
			IV. ESTABLISHMENT	1,446	1,07,143
			V. TOOLS AND PLANT	..	1,742
			VI. REFUNDS OF REVENUE	..	43
			Deduct—RECOVERIES ON REVENUE ACCOUNT	..	5
			Total, Direct Charges	5,551	5,38,369

ARKENKOTA CHANNEL—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.
	During the year.	To end of the year.		
RS.	RS.	RS.		
II. INDIRECT RECEIPTS—				
Share of Land Revenue collected in the Civil Department	428	26,949	Share of collection charges in the Civil Department	794
.. ..			Indirect Charges	41
Total, Public Works and Civil Departments, Revenue	16,185	9,71,939	Total, Direct and Indirect charges	6,386
			Debit—Old maintenance charge saved to Government *	1,157
			Balance, net revenue	5,229
Total, Receipts	16,185	9,71,939	Net Total	10,956
			Grand total	16,185
			RS.	
* Direct—				
Extensions and improvements				793
Maintenance and repairs				100
Establishment				254
Tools and plant				1
Indirect			Total, Direct	1,148
			Total, Direct and Indirect	1,157

ARKENKOTA CHANNEL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938 ..	3,08,625	Net revenue realized to end of 1937-1938	3,93,931
Total interest charges for the year 1938-1939 ..	6,335	Net revenue realized during 1938-1939	10,956
Balance, net revenue ..	89,927		
Total ..	4,04,887	Total ..	4,04,887

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Leave and pension allowances	..	3,676
Total	..	3,676
REVENUE—		
Leave and pension allowances	..	10,825
Audit and accounts	41	1,347
Total	41	12,172
Grand Total	41	15,848

ARKENKOTA CHANNEL—Canal Project—cont.

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.	Unsettled balance of estimate.	
	RS.	RS.	RS.				RS.
<i>Direct Charges.</i>							
Works							
Establishment ..	81,578	32,927	1,14,505	..	..	..	1,14,505
Tools and plant ..	18,760	7,504	26,264	..	..	..	26,264
Suspense account ..	..	..	..	..	..	..	..
Total ..	1,00,338	40,431	1,40,769	..	..	..	1,40,769
<i>Less—Receipts on capital account ..</i>	..	..	..	..	..	..	..
Net Total ..	1,00,338	40,431	1,40,769	..	..	..	1,40,769
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	2,026	1,050	3,076	..	..	..	3,076
Leave and pension allowances ..	2,026	1,050	3,076	..	..	..	3,076
Total ..	1,02,964	41,481	1,44,445	..	..	..	1,44,445
Grand Total ..							

The construction estimate of the Project was closed on 31st March 1894.

TIRUKKOYILUR ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 72 of the Administrative Accounts for 1934-35.]

THIRUKOYILUR ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
1. Direct Receipts—	RS.	RS.		RS.	RS.
3. Sales of water	..	756	I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations	676	42,637	(1) Head works	97	13,594
6. Receipts from other canal produce.	131	7,312	(2) Main canals and branches	822	63,577
9. Rents of buildings	51	901	(3) Distributaries	332	59,529
Fines	..	2	(4) Drainage and protective works.	..	20,015
11. Miscellaneous	..	954	(5) Special tools and plant	..	..
Recoveries of expenditure	..	121	Total	1,251	1,56,715
Deduct—Refunds	..	685			
Total, Revenue realized in Public Works Department	858	52,108	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department	6,872	28,88,130	(1) Head works	33,620	1,45,699
Total, Direct Receipts	7,730	29,40,238	(2) Main canals and branches	10,498	3,51,689
II. Indirect Receipts—			(3) Distributaries	10,333	2,81,101
Share of Land Revenue collected in the Civil Department	3,369	2,18,591	(4) Drainage and protective works.	..	8,680
Total, Public Works and Civil Departments, Revenue	11,099	31,58,829	(5) Special tools and plant	..	..
			Add—Unclassifiable outlay	..	1,95,063
			Total	54,451	9,82,132
			Total, Extensions and Improvements and Maintenance and Repairs	55,702	11,38,847
			IV. ESTABLISHMENT	24,304	3,71,113
			V. TOOLS AND PLANT	48	3,273
			VI. REFUNDS OF REVENUE	..	393
			Deduct—Recoveries on Revenue account	..	194
			Total, Direct Charges	80,054	15,13,342

ADMINISTRATIVE ACCOUNTS.
FOR THE YEAR 1938-1939.

Share of collection charges in the Civil Department	512	1,55,336
Indirect Charges	457	36,835
Total, Direct and Indirect Charges	81,133	17,05,513
Deduct—Old maintenance charges saved to Government *	7,001	1,81,285
Balances, net revenue	74,122	15,24,228
Not Total	—	63,023
Grand Total	11,099	31,58,829
	RS.	
Extensons and improvements	1,972	
Maintenance and repairs	2,960	
Establishment	2,016	
Tools and plant	4	
Total, Direct	6,952	
Indirect	49	
Total, Direct and Indirect	7,001	

TIRUKKOYILUR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to and of 1937-1938 ..	7,49,755	Net revenue realized to end of 1937-1938 ..	16,97,024
Total interest charges for the year 1938-1939 ..	17,514	Net revenue realized during 1938-1939 ..	— 63,023
Balance, net revenue ..	8,67,332		
Total ..	16,34,601	Total ..	16,34,601

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	105
Leave and pension allowances ..	..	9,731
Audit and accounts ..	..	165
Total ..	..	10,001
REVENUE—		
Capitalization of abatement of land revenue ..	..	452
Leave and pension allowances ..	..	32,094
Audit and accounts ..	557	4,289
Total ..	557	36,835
Grand Total ..	557	46,836

TIRUKKOYILUR ANICUT SYSTEM—Canal Project—cont.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Charges to date. RS.	Amount of sanctioned estimate. RS.	Unspent balance of estimate. RS.
Direct Charges.					
Works ..	2,01,591	1,16,784	..	..	3,18,375
Establishment ..	46,361	24,348	..	..	70,709
Tools and plant ..	..	105	..	..	105
Suspense account ..	..	..	..	..	..
Total ..	2,47,952	1,41,237	..	..	3,89,189
Less—Receipts on Capital Account.	..	..	..	..	..
Net Total ..	2,47,952	1,41,237	..	..	3,89,189
Indirect Charges.					
Capitalized abatement of land revenue ..	28	77	..	..	105
Leave and pension allowances ..	6,490	3,241	..	..	9,731
Audit and accounts ..	..	165	..	..	165
Total ..	6,518	3,483	..	..	10,001
Grand Total ..	2,54,470	1,44,720	..	..	3,99,190

The construction estimate of the Project was closed on 31st March 1895.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SHATIA TOPE ANICUT SYSTEM—Canal Project.
No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	
I. WORKS—			
(1) Head works	..	2,36,391	2,36,391
(2) Main canals and branches	..	6,24,988	6,24,988
(3) Distributaries	..	37,335	37,335
(4) Drainage and Protective works	..	4,399	4,399
(6) Special tools and plant	..	..	..
Total works	..	9,03,113	9,03,113
II. ESTABLISHMENT	..	1,26,113	1,26,113
III. TOOLS AND PLANT	..	660	660
Total outlay in India and England	..	10,29,886	10,29,886

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

SHATIA TOPE ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	Total.		Charges.	Total.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from Plantations	..	503	(1) Head works	..	9,786
6. Receipts from other canal produce	..	52	(2) Main canals and branches	..	54,159
8. Navigation receipts	..	..	(3) Distributaries	..	30,216
9. Rents of buildings	..	151	(4) Drainage and protective works	..	849
10. Fines	..	..	(5) Special tools and plant	..	21,316
11. Miscellaneous	..	..	Add—Unclassifiable outlay	..	..
Recoveries of expenditure	..	..	Total	149	1,16,326
Deduct—Refunds	..	..	II. MAINTENANCE AND REPAIRS—		
	..	..	(1) Head works	..	1,80,164
	..	..	(2) Main canals and branches	..	4,27,814
	..	..	(3) Distributaries	..	2,09,110
	..	..	(4) Drainage and protective works	..	3,126
	..	..	(6) Special tools and plant	..	..
	..	..	Add—Unclassifiable	..	2,87,678
	..	..	Total	54,571	11,07,892
Total, Revenue realized in Public Works Department	706	33,278	Total Extensions and Improvements and Maintenance and repairs	..	12,242,18
Irrigation revenue realized in Civil Department	1,17,942	64,75,752	IV. ESTABLISHMENT	..	4,43,975
	..	..	V. TOOLS AND PLANT	..	3,779
	..	..	VI. REFUNDS OF REVENUE	..	249
	..	..	Deduct—Recoveries on Revenue account	..	359
Total, Direct Receipts	1,18,648	65,09,030	Total, Direct Charges	..	16,70,892

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SHATLATOPE ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
II. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	17,031	13,85,656	Share of collection charges in the Civil Department	6,749	3,92,998
Total, Public Works and Civil Departments, Revenue	1,35,679	78,92,686	Indirect charges	547	45,471
			Total, Direct and Indirect Charges ..	87,978	21,09,301
			Deduct—Old maintenance charges saved to Government *	2,333	60,422
			Balance, net revenue	85,645	20,48,879
Total, Receipts ..	1,35,679	78,92,686	Net Total	50,634	58,43,807
			Grand Total	1,35,679	78,92,686

* Direct—

	RS.
Extensions and improvements	64
Maintenance and repairs	1,580
Establishment	672
Tools and plant	1
Total, Direct	2,317
Indirect	16
Total, Direct and Indirect	2,333

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

SHATLATOPE ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938	11,43,938	Net revenue realized to end of 1937-1938	57,93,773
Total interest charges for the year 1938-1939	46,345	Net revenue realized during 1938-1939	50,034
Balance, net revenue	46,53,524		
Total	58,43,807	Total	58,43,807

No. 5.—Account of indirect charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalized abatement of land revenue	..	44,016
Leave and pension allowances	..	14,732
Audit and accounts	..	927
Total	..	59,675
REVENUE—		
Capitalized abatement of land revenue	..	685
Leave and pension allowances	..	40,369
Audit and accounts	547	4,417
Total	547	45,471
Grand Total	547	1,05,146

SHATTAPOPE ANICUT SYSTEM—Canal Project—cont.
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.	
	RS.	RS.	RS.				RS.
Direct Charges.							
Works							
Establishment	1,09,182	7,93,931	9,03,113	..	..	..	9,03,113
Tools and plant	24,702	1,01,411	1,26,113	..	..	..	1,26,113
Suspense account	..	600	600	..	..	..	600
Total ..	1,33,884	8,96,002	10,29,886	..	..	..	10,29,886
Less—Receipts on Capital account.	..	..	..	..	..	..	..
Net Total ..	1,33,884	8,96,002	10,29,886	..	..	..	10,29,886
Indirect Charges.							
Capitalized abatement of land revenue	..	44,016	44,016	..	..	..	44,016
Leave and pension allowances	3,457	11,275	14,732	..	..	..	14,732
Audit and accounts	..	927	927	..	..	..	927
Total ..	3,457	56,218	59,675	..	..	..	59,675
Grand Total ..	1,37,341	9,52,220	10,89,561	..	..	..	10,89,561

The construction estimate of the project was closed on 31st March, 1939.

CHEYYAR ANICUT SYSTEM—Canal Project.

No. 2.—Capital account for and to end of 1938-1939.

(Vide details on page 79 of the Administrative Accounts for 1937-38.)

CHEYYAR ANIOUT SYSTEM—Canal Project—cont.

No. 3.—Revenue account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5 Receipts from plantation ..	197	16,045	(1) Head works ..	350	13,628
6 Receipts from other canal produce.	11	11,532	(2) Main canals and branches ..	..	25,314
9 Rents of buildings ..	205	4,319	(3) Distributaries ..	3,291	1,14,389
11 Miscellaneous ..	850	13,924	(4) Drainage and protective works.	..	1,919
Recoveries of expenditure ..	6	37	(5) Special tools and plant ..	..	..
Deduct—Refunds ..	..	33	Add—Unclassifiable outlay ..	..	39,441
Total Revenue realized to Public Works Department.	1,269	45,324	Total ..	3,641	1,94,691
IRRIGATION REVENUE realized in Civil Department.	18,483	31,30,331	II. MAINTENANCE AND REPAIRS—		
			(1) Head works ..	5,279	79,937
			(2) Main canals and branches ..	4,626	2,15,399
			(3) Distributaries ..	31,397	9,71,935
			(4) Drainage and protective works.	..	13,489
			(5) Special tools and plant ..	..	..
			Add—Unclassifiable outlay ..	..	2,78,001
Total, Direct Receipts ..	19,752	31,76,155	Total ..	41,302	15,58,761
			Total, Extensions and Improvements and Maintenance and Repairs.	44,043	17,53,452
			IV. ESTABLISHMENT ..	13,658	4,86,390
			V. TOOLS AND PLANT ..	44	8,124
			VI. REFUNDS OF REVENUE ..	..	832
			Deduct—Recoveries on Revenue account.	..	9
			Total, Direct Charges ..	58,645	22,48,789

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

I. INDIRECT RECEIPTS—			Share of collection charges in the Civil Department.	1,089	1,69,248
Share of land revenue collected in the Civil Department.	4,735	2,74,058	Indirect charges ..	449	53,606
Total, Public Works and Civil Departments, Revenue.	24,487	34,50,213	Total, Direct and Indirect charges ..	60,183	24,71,643
			* Deduct—Old maintenance charges saved to Government.	4,152	1,14,173
			Net Total ..	56,031	23,57,470
			Balance, net revenue.	— 31,544	10,92,743
Total, Receipts ..	24,487	34,50,213	Grand Total ..	24,487	34,50,213
* Direct—			RS.		
Extensions and improvements ..	..	..	2,566		
Maintenance and repairs ..	..	..	640		
Establishment ..	..	..	911		
Tools and plant ..	..	..	3		
Total, Direct ..	..	..	4,120		
Indirect ..	..	..	32		
Total, Direct and Indirect ..	..	..	4,152		

CHEYYAR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-38.	9,92,254	Net revenue realized to end of 1937-38.	11,24,287
Total interest charges for the year 1938-39.	23,616	Net revenue realized during 1938-39.	— 31,544
Balance, net revenue ..	76,873		
Total ..	<u>10,92,743</u>	Total ..	<u>10,92,743</u>

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	744
Leave and pension allowances ..	..	13,948
Audit and accounts ..	..	509
Total ..	..	<u>15,201</u>
REVENUE—		
Leave and pension allowances ..	..	45,944
Audit and accounts ..	449	7,662
Total ..	<u>449</u>	<u>53,606</u>
Grand Total ..	<u>449</u>	<u>68,807</u>

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.		CURRENT SANCTIONS.		Total charges to date against old and current sanctions.
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Charges to date.	Amount of sanctioned estimate.	
	RS.	RS.	RS.		RS.
Direct charges.					
Works ..	..	99,298	..	..	4,20,163
Establishment ..	..	30,399	..	..	1,03,941
Tools and plant ..	..	744	..	..	744
Suspense account ..	..	..	..	..	..
Total ..	<u>3,94,407</u>	<u>1,30,441</u>	..	..	<u>5,24,848</u>
Less—Receipts on capital account ..	..	50	..	..	50
Net Total ..	<u>3,94,407</u>	<u>1,30,391</u>	..	..	<u>5,24,798</u>
Indirect charges.					
Capitalized abatement of land revenue.	744	..	..	..	744
Leave and pension allowances ..	10,296	3,652	..	..	13,948
Audit and accounts ..	..	509	..	..	509
Total ..	<u>11,040</u>	<u>4,161</u>	..	..	<u>15,201</u>
Grand Total ..	<u>4,05,447</u>	<u>1,34,552</u>	..	..	<u>5,39,999</u>

The construction estimate of the Project was closed on 31st March 1896.

CUMBUM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 87 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

CUMBUM TANK—*Tank Project—cont.*

No. 3.—Revenue Accounts for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year.	To end of the year.	During the year.	To end of the year.	During the year.	To end of the year.
	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—			
6. Other canal produce	..	111	(1) Head works	..	..	418
11. Miscellaneous	..	11	(2) Main canals and branches	..	..	3,621
			(3) Distributaries	1,989	..	8,386
Total, Revenue realized in Public Works Department	..	122	(4) Drainage and protective works	..	..	..
Irrigation Revenue realized in Civil Department	5,922	2,95,389	(5) Special tools and plant	..	..	..
			Add—Unclassifiable outlay	..	..	7,186
			Total	1,989	19,411	
			II. MAINTENANCE AND REPAIRS—			
			(1) Head works	155	8,563	
			(2) Main canals and branches	851	34,084	
			(3) Distributaries	..	33,031	
			(4) Drainage and protective works	..	1,047	
			(5) Special tools and plant	..	..	..
			Add—Unclassifiable outlay	..	24,128	
			Total	1,006	1,00,853	
Total, Direct Receipts	5,922	2,95,511	Total, Extensions and Improvements and Maintenance and Repairs	2,995	1,20,404	

CUMBUM TANK—*Tank Project*—cont.
No. 3.—Revenue Accounts for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year. RS.	To end of the year. RS.		During the year. RS.	To end of the year. RS.
INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	461	29,238	IV. ESTABLISHMENT	2,008	36,381
.. .. .			V. TOOLS AND PLANT	3	809
.. .. .			VI. REFUNDS OF REVENUE		
Total, Public Works and Civil Departments—Revenue	6,383	3,24,749	Total, Direct charges	5,006	1,57,744
			Share of collection charges in the Civil Department	319	16,231
			Indirect charges	30	7,043
			Total, Direct and Indirect charges	5,355	1,81,018
			(a) <i>Deduct</i> —Old maintenance charges saved to Government	1,310	42,214
			Balance, net revenue	4,045	1,38,804
Total, Receipts	6,383	3,24,749	Net Total	2,338	1,85,945
			Grand Total	6,383	3,24,749
			RS.		
(a) Extensions and improvements .. .. .			.. .. .		
Maintenance and repairs .. .. .			.. .. .		
Establishment .. .. .			.. .. .		
Tools and plant .. .. .			.. .. .		
Indirect charges .. .. .			.. .. .		
			Total, Direct charges	1,302	
			Total, Direct and Indirect charges	1,310	

CUMBUM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938	1,47,593	Net revenue realized to end of 1937-1938	1,83,607
Total interest charges for the year 1938-1939	3,779	Net revenue realized during 1938-1939	2,338
Balance, net revenue	34,573		
Total	1,85,945	Total	1,85,945

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue .. .. .	.. .. .	206
Leave and pension allowances .. .. .	.. .. .	2,182
Total .. .. .	.. .. .	2,388
REVENUE—		
Capitalization of abatement of land revenue .. .. .	.. .. .	2,801
Leave and pension allowances .. .. .	.. .. .	3,909
Audit and account	30	333
Total	30	7,043
Grand Total	30	9,431

CUMBUM TANK—Tank Project—cont.
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.
	RS.	RS.	RS.			RS.
<i>Direct Charges.</i>						
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.	..	..	..	..	..	..
Net Total ..	45,809	38,176	83,985	..	..	83,985
<i>Indirect Charges.</i>						
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

The construction estimate of the Project was closed on 31st March 1896.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

POINNEY ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 92 of the Administrative Accounts for 1934-35.]

IRRIGATION BRANCH.

193.

PUBLIC WORKS DEPARTMENT.

POINCY ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.		TOTAL.
	During the year.	To end of the year.	During the year.	To end of the year.	
I. DIRECT RECEIPTS—	rs.	rs.		rs.	rs.
5. Receipts from plantations	106	5,339	I. EXTENSIONS AND IMPROVEMENTS—	713	8,735
6. Receipts from other canal produce ..	124	9,486	(1) Head works	..	24,094
9. Rents of buildings	48	1,914	(2) Main canals and branches	..	52,480
11. Miscellaneous	1	4,598	(3) Distributaries	391	49,029
Recoveries of expenditure	..	874	(4) Drainage and protective works ..	..	..
Deduct—Refunds	..	8	(5) Special tools and plant	..	..
Total, Revenue realized in Public Works Department	279	22,203	Total	1,104	1,34,338
II. INDIRECT RECEIPTS—			II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department	20,427	32,03,383	(1) Head works	8,893	1,30,221
Total, Direct Receipts	20,706	32,25,586	(2) Main canals and branches	426	1,29,792
III. INDIRECT RECEIPTS—			(3) Distributaries	27,856	4,73,124
Share of Land Revenue collected in the Civil Department	5,488	3,73,116	(4) Drainage and protective works ..	..	..
			(5) Special tools and plant	..	..
			Add—Unclassifiable outlay	..	2,76,594
			Total	37,175	10,06,731
			Total, Extensions and Improvements and Maintenance and Repairs ..	38,279	11,41,069
			IV. ESTABLISHMENT	11,740	3,33,833
			V. TOOLS AND PLANT	38	4,535
			VI. REFUNDS OF REVENUE	..	461
			Deduct—Recoveries on Revenue account ..	..	5
			Total, Direct charges	50,057	14,79,893
			Share of collection charges in the Civil Department	1,293	1,78,733
			Indirect charges	383	37,868

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

199

MADRAS PRESIDENCY.

Total, Public Works and Civil Departments, Revenue	26,194	35,98,702	Total, Direct and Indirect charges, * Deduct—Old maintenance charges saved to Government	51,733	10,96,484
			Net Total	4,043	1,11,209
			Balance, net revenue	47,690	15,85,275
			Grand Total	21,496	20,13,427
Total Receipts	26,194	35,98,702		26,194	35,98,702
* Direct—					
Extensions and improvements	..	..	rs.		
Maintenance and repairs	..	..	3,057		
Establishment	..	..	66		
Tools and plant	..	..	886		
			3		
Indirect	..	..	Total, Direct	4,012	
			..	31	
			Total, Direct and Indirect	4,043	

POINNEY ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937–38 ..	6,42,791	Net revenue realized to end of 1937–38 ..	20,34,923
Total interest charges for the year 1938–39 ..	13,280	Net revenue during 1938–39 ..	21,496
Balance, net revenue ..	13,57,356		
Total ..	20,13,427	Total ..	20,13,427

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	165
Leave and pension allowances ..	..	8,480
Audit and accounts ..	..	167
Total ..	..	8,812
REVENUE—		
Capitalization of abatement of land revenue ..	..	403
Leave and pension allowances ..	..	33,141
Audit and accounts ..	383	4,314
Total ..	383	37,858
Grand Total ..	383	46,670

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Total. RS.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
Direct Charges.							
Works ..	1,83,435	50,828	2,34,263	..	..	..	2,34,263
Establishment ..	42,189	18,387	60,576	..	..	..	60,576
Tools and plant ..	..	267	267	..	..	..	267
Suspense account ..	..	..	..	..	..	..	..
Total ..	2,25,624	69,482	2,95,106	..	..	..	2,95,106
Less—Receipts on Capital account.							
Net Total ..	..	..	..	..	..	..	..
Indirect Charges.							
Capitalized abatement of land revenue ..	165	..	165	..	..	..	165
Leave and pension allowances ..	5,907	2,573	8,480	..	..	..	8,480
Audit and accounts ..	..	167	167	..	..	..	167
Total ..	6,072	2,740	8,812	..	..	..	8,812
Grand Total ..	2,31,696	72,222	3,03,918	..	..	..	3,03,918

The construction estimate of the project was closed in 1897.

PERIYAR SYSTEM—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on pages 97 and 98 of the Administrative Account for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.PERIYAR SYSTEM—*Tank Project*—con
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year. RS.	To end of the year. RS.			During the year. RS.	To end of the year. RS.
DIRECT RECEIPTS—						
3. Sales of water	..	..	I. EXTENSIONS AND IMPROVEMENTS—			
4. Water-supply of towns ..	..	..	(1) Head works	..	201	6,98,825
5. Receipts from plantations ..	..	..	(2) Main canals and branches ..	..	7,353	1,39,073
6. Receipts from other canal produce	..	..	(3) Distributaries	..	3,405	3,24,744
8. Receipts from navigation ..	..	..	(4) Drainage and protective works ..	..	..	16,084
9. Rents of buildings	..	..	(5) Special tools and plant	..	..	83
10. Fines	..	..	Total	..	10,959	11,79,709
11. Miscellaneous	..	..	II. MAINTENANCE AND REPAIRS—			
Receipts of expenditure ..	..	..	(1) Head works	..	8,981	5,41,872
Deduct—Refunds	..	..	(2) Main canals and branches ..	..	30,076	11,48,062
Total, Revenue realized in the Public Works Department	11,691	4,17,071	(3) Distributaries	..	28,734	11,11,265
Irrigation revenue realized in Civil Department	5,60,046	2,54,18,390	(4) Drainage and protective works ..	..	..	85,383
Total, Direct Receipts	5,71,737	2,58,35,901	(5) Special tools and plant	..	..	15,102
			Total	..	67,791	29,01,684
			III. COMPENSATION	..	42,965	18,20,523
			Total, Extensions and Improvements and Maintenance and Repairs	..	1,21,715	59,01,916
			IV. ESTABLISHMENT	..	56,444	22,57,106
			V. TOOLS AND PLANT	..	1	86,577
			VI. REFUNDS OF REVENUE	..	..	2,619
			Deduct—Recoveries of Revenue account ..	..	..	94
			Total, Direct Charges	..	1,78,158	82,48,124

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

PERIYAR SYSTEM—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	
	During the year.	To end of the year.		
	RS.	RS.		
I. INDIRECT RECEIPTS—				
Share of Land Revenue collected in the Civil Department	94,841	23,97,182	Share of collection charges in the Department	Civil
Total, Public Works and Civil Departments, Revenue	6,66,578	2,82,33,143	Indirect Charges .. ..	.. ..
			Total, Direct and Indirect Charges .. ..	.. ..
			Deduct—Old maintenance charges saved to Government * .. ..	.. ..
			Net Total .. ..	.. ..
			Balance, not revenue .. ..	.. ..
Total, Receipts	6,66,578	2,82,33,143	Grand Total .. ..	.. ..
				RS.
* Direct—				4,474
Extensions and improvements				21,422
Maintenance and repairs				10,083
Establishment .. ..				.. ..
Tools and plant .. ..				.. ..
Indirect			Total, Direct	35,979
			.. ..	259
			Total, Direct and Indirect	36,238

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

PERIYAR SYSTEM—Tank Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938	1,59,09,617	Net revenue realized to end of 1937-1938	1,93,10,479
Total interest charges for the year 1938-1939	4,70,908	Net revenue realized during 1938-1939	4,94,333
Balance, net revenue	34,24,287		
Total	1,98,04,812	Total	1,98,04,812

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue .. ..	.. ..	1,36,468
Leave and pension allowances .. ..	.. ..	2,33,396
Audit and accounts .. ..	.. ..	1,163
Total .. ..	.. ..	3,71,027
REVENUE—		
Capitalization of abatement of land revenue	89	28,185
Leave and pension allowances .. ..	.. ..	1,79,762
Audit and accounts	1,217	34,025
Total	1,306	2,41,972
Grand Total	1,306	6,12,999

PERIYAR SYSTEM—*Tank Project*—cont.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Total. RS.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
<i>Direct Charges.</i>							
Works							
Establishment	60,69,752	19,58,551	80,28,303	..	..	..	80,28,303
Tools and plant	13,46,177	3,44,561	16,90,738	..	..	..	16,90,738
Suspense account	7,28,201	38,696	7,66,897	..	..	..	7,66,897
Total	81,44,220	23,41,718	1,04,85,938	..	..	..	1,04,85,938
Less—Receipts on Capital Account.	14,293	7,108	21,401	..	..	..	21,401
Not Total	81,30,017	23,34,610	1,04,64,627	..	..	..	1,04,64,627
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue	34,661	1,01,807	1,36,468	..	..	..	1,36,468
Leave and pension allowances	1,88,466	44,930	2,33,396	..	..	..	2,33,396
Audit and accounts	..	1,163	1,163	..	..	..	1,163
Total	2,23,127	1,47,900	3,71,027	..	..	..	3,71,027
Grand Total	83,53,144	24,82,510	1,08,35,654	..	..	..	1,08,35,654

(The construction estimate of the project was closed on 31st March 1897 and the completion report approved in G.O. No. 863 I., dated 8th September 1903.)

KISTNA DELTA SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1938–1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated. RS.
	During the year. RS.	To end of the year. RS.	
I. WORKS—			
(1) Head works	..	11,96,507	11,96,507
(2) Main canals and branches	2,276	49,35,720	49,82,084
(3) Distributaries	2,62,489	31,50,101	37,28,808
(4) Drainage and protective works	20,001	32,95,507	33,93,900
(5) Water courses	32,987	92,905	1,68,116
(6) Special tools and plant. Old outlay	..	30,81,755	30,81,755
Total, Works.	3,17,753	1,57,52,495	1,65,51,170
II. ESTABLISHMENT	1,07,072	38,61,565	40,21,798
III. TOOLS AND PLANT	391	7,22,825	7,62,713
IV. SUSPENSE	..	..	..
V. Less—RECEIPTS ON CAPITAL ACCOUNT	116	43,468	43,468
Net outlay in India and England	4,25,100	2,02,93,417	2,12,92,213

KISTNA DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
3 Sales of water	3,453	62,547	(1) Head works	244	1,84,458
4 Water-supply of towns ..	3,594	98,068	(2) Main canals and branches.	29,910	8,52,285
5 Receipts from plantations.	3,404	4,38,276	(3) Distributaries	13,118	7,98,241
6 Receipts from other canal produce	39,808	14,78,075	(4) Drainage and protective works	4,234	3,92,662
7 Water power	..	1,281	(5) Special tools and plant.	..	19,664
			Total ..	47,506	22,47,310
8 Navigation receipts ..	1,14,493	37,73,950	II. MAINTENANCE AND REPAIRS—		
9 Rents of buildings	3,401	1,18,441	(1) Head works	34,238	18,21,021
10 Fines	..	..	(2) Main canals and branches.	2,20,922	1,13,41,004
11 Miscellaneous	4,624	1,55,844	(3) Distributaries	1,18,162	56,17,758
Recoveries of expenditure.	249	13,450	(4) Drainage and protective works	71,819	19,78,879
Deduct—Refunds	811	14,787	(5) Special tools and plant.	..	2,30,755
			Add—Unclassifiable outlay.	..	9,10,934
Total Revenue realized in the Public Works Department.	1,72,215	61,26,088	Total ..	4,45,141	2,18,00,351
Irrigation Revenue realized in the Civil Department ..	31,76,224	17,73,52,033	Total, Extensions and Improvements and Maintenance and Repairs ..	4,92,647	2,40,47,661
Total, Direct Receipts ..	33,48,439	18,34,78,121	IV. ESTABLISHMENT ..	2,69,649	1,40,68,442
			V. TOOLS AND PLANT ..	607	19,47,131
			VI. REFUNDS OF REVENUE ..	..	25,907
			Deduct—Recoveries on Revenue Account ..	..	4,984

II. INDIRECT RECEIPTS—			Total, Direct Charges.	7,92,903	4,00,84,157
Share of land revenue collected in the Civil Department.	1,89,665	1,09,01,630	Share of collection charges in the Civil Department ..	1,64,695	97,17,749
			Indirect charges ..	4,934	16,48,819
Total, Public Works and Civil Departments—Revenue ..	35,38,104	19,43,79,751	Total, Direct and Indirect Charges ..	9,32,532	5,14,50,725
			Balance, not revenue ..	26,05,672	14,29,29,026
Total, Receipts ..	35,38,104	19,43,79,751	Grand Total ..	35,38,104	19,43,79,751

KISTNA DELTA SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

Amount.	Amount.
RS.	RS.
Total interest charges to end of 1937-1938 ..	3,23,95,568
Total interest charges for the year 1938-1939 ..	9,02,397
Balance net revenue ..	10,96,31,061
Total ..	14,29,29,026
Net revenue realized to end of 1937-1938 ..	14,03,23,454
Net revenue realized during 1938-1939 ..	26,05,572
Total ..	14,29,29,026

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
RS.	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	19,674	6,70,608
Leave and pension allowances ..	..	5,03,855
Audit and Accounts ..	3,178	35,869
Total ..	22,852	12,10,332
REVENUE—		
Capitalization of abatement of land revenue ..	8	28,532
Leave and pension allowances ..	..	15,11,522
Audit and Accounts ..	4,926	1,08,765
Total ..	4,934	16,48,819
Grand Total ..	27,786	28,59,151

KISTNA DELTA SYSTEM—Canal Project—cont.

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

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direct Charges.							
Works Establishment ..	94,90,888	48,47,185	1,43,38,073	14,14,422	22,13,097	7,98,675	1,57,52,495
Tools and plant ..	22,14,258	12,30,548	34,44,806	4,16,759	5,76,992	1,60,233	38,61,565
Suspense account ..	6,60,944	57,508	7,18,452	4,373	44,261	39,888	7,22,825
Total ..	1,23,66,090	61,35,241	1,85,01,331	18,35,554	28,34,350	9,98,796	2,03,36,885
Less—Receipts on Capital Account.	15,400	28,068	43,468	..	..	..	43,468
Net Total ..	1,23,50,690	61,07,173	1,84,57,863	18,35,554	28,34,350	9,98,796	2,02,93,417
Indirect Charges.							
Capitalized abatement of land revenue ..	4,53,037	2,17,571	6,70,608	..	43,394	43,394	6,70,608
Leave and pension allowances ..	3,87,938	1,15,917	5,03,855	..	..	..	5,03,855
Audit and Accounts ..	..	21,724	21,724	14,145	22,132	7,987	35,869
Total ..	8,40,975	3,55,212	11,96,187	14,145	65,526	51,381	12,10,332
Grand Total ..	1,31,91,665	64,62,385	1,96,54,050	18,49,699	28,99,876	10,50,177	2,15,03,749

(The construction estimate of the project was closed on 31st March 1898 and the completion report approved in G.O. No. 60 I, dated 25th January 1905.)

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

NANDIYAR CHANNEL SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1938–1939.

Vide details on page 108 of the Administrative Accounts
for 1934–1935.ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

NANDIYAR CHANNEL SYSTEM—*Canal Project*—cont.
No. 3.—Revenue Accounts for and to end of 1938–1939.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year.	To end of the year.	During the year.	To end of the year.	During the year.	To end of the year.
I. DIRECT RECEIPTS—	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantation ..	321	7,181	(1) Head works ..	..	..	7,486
6. Receipts from other canal produce.	102	2,744	(2) Main canals and branches ..	..	..	12,353
8. Navigation receipts ..	..	3	(3) Distributaries ..	..	..	1,115
9. Rent of buildings ..	2	76	(4) Drainage and protective works.	..	..	..
10. Fines ..	3	3	(5) Special tools and plant ..	..	..	..
II. Miscellaneous ..	..	2,893	Total ..	..	..	20,954
Recoveries of expenditure ..	..	50	II. MAINTENANCE AND REPAIRS—	..	..	..
Deduct—Refunds ..	..	194	(1) Head works ..	..	..	16,862
Total Revenue realized in the Public Works Department ..	428	12,756	(2) Main canals and branches ..	..	5,299	1,60,337
Irrigation Revenue realized in the Civil Department ..	10,779	2,67,599	(3) Distributaries ..	..	..	7,524
Total, Direct Receipts ..	11,207	2,80,355	(4) Drainage and protective works.	..	..	4,497
II. INDIRECT RECEIPTS—	..	..	(5) Special tools and plant ..	..	..	..
Share of land revenue collected in the Civil Department ..	243	3,467	Add—Unclassifiable outlay ..	..	..	..
			Total ..	5,299	1,89,220	
			Total, Extensions and Improvements and Maintenance and Repairs ..	5,299	2,10,174	
			IV. ESTABLISHMENT ..	2,395	68,809	
			V. TOOLS AND PLANT ..	..	838	
			Deduct—RECOVERIES ON REVENUE ACCOUNT ..	..	8	
			Total, Direct Charges ..	7,694	2,79,813	

NANDIYAR CHANNEL SYSTEM—*Canal Project*—cont.
No. 3.—Revenue Accounts for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
Total, Public Works and Civil Departments, Revenue	11,450	2,83,822	Share of collection charges in the Civil Department	543	13,492
			Indirect charges	53	5,306
			Total, Direct and Indirect charges. * <i>Deduct</i> —Old maintenance charges saved to Government	8,290	2,98,611
			Net Total	4,488	1,03,009
			Balance, net revenue	3,802	1,95,602
Total, Receipts ..	11,450	2,83,822	Grand Total	7,648	88,220
				11,450	2,83,822
* Direct—				RS.	
Extensions and Improvements ..			.. ..		2,836
Maintenance and Repairs ..			.. ..		371
Establishment .. ..			.. ..		1,249
Tools and plant .. ..			.. ..		..
Indirect			Total, Direct		4,456
			.. ..		32
			Total, Direct and Indirect		4,488

NANDIYAR CHANNEL SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938	90,319	Net revenue realized to end of 1937-1938	80,572
Total interest charges for the year 1938-1939 ..	2,845	Net revenue realized during 1938-1939	7,648
		Balance, net interest charges.	4,944
Total ..	93,164	Total ..	93,164

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.		During the year.	To end of the year.
		RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	.. .. .	..	838
Leave and pension allowances	.. .. .	..	1,046
Audit and accounts	.. .. .	..	..
Total	..	..	2,484
REVENUE—			
Capitalization of abatement of land revenue	.. .. .	..	142
Leave and pension allowances	.. .. .	..	3,683
Audit and accounts	.. .. .	53	1,481
Total	..	53	5,306
Grand Total	..	53	7,790

NANDIYAR CHANNEL SYSTEM—Canal Project—cont.

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.	
	RS.	RS.	RS.				RS.
<i>Direct Charges.</i>							
Works ..	..	..	51,476	..	..	..	51,476
Establishment ..	43,488	7,988	11,755	..	..	..	11,755
Tools and plant ..	10,002	1,753	..	..	..	..	..
Suspense account ..	..	..	..	..	..	..	..
Total ..	53,490	9,741	63,231	..	..	..	63,231
<i>Less—Receipts on Capital Account.</i>	..	..	..	..	..	..	..
Net Total ..	53,490	9,741	63,231	..	..	..	63,231
<i>Indirect Charges.</i>							
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

The construction estimate of the project was closed in 1899 and the completion report approved in G.O. No. 149 I., dated 12th February 1897.

CHICACOLE MINOR RIVERS SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 106 of the Administrative Accounts for 1935-1936.]

IRRIGATION BRANCH.

218

PUBLIC WORKS DEPARTMENT.

CHICACOLE MINOR RIVERS SYSTEM—Canal Project—cont. No. 3.—Revenue Account for and to end of 1938-1939—

Receipts.	TOTAL.		Charges.	
	During the year.	To end of the year.	During the year.	To end of the year.
RS.	RS.	RS.	RS.	RS.
I. DIRECT RECEIPTS—				
1 Water-rates from irrigation ..	..	..	I. EXTENSIONS AND IMPROVEMENTS—	
2 Owner's rates ..	..	..	(1) Head works ..	2,684
3 Receipts from sale of water ..	..	..	(2) Main canals and branches ..	51,344
5 Receipts from plantations ..	..	..	(3) Distributaries ..	83,489
6 Receipts from other canal produce.	..	..	(4) Drainage and protective works.	..
11 Miscellaneous ..	21	1,259	(5) Special tools and plant ..	5,713
Total Revenue realized in Public Works Department.	89	10,725	Total ..	1,43,230
Irrigation Revenue realized in Civil Department.	27,750	26,87,840	II. MAINTENANCE AND REPAIRS—	
Total, Direct Receipts ..	27,839	26,98,565	(1) Head works ..	15,776
			(2) Main canals and branches ..	9,50,597
			(3) Distributaries ..	3,47,307
			(4) Drainage and protective works.	4,817
			(5) Special tools and plant ..	2,985
			Add—Unclassifiable outlay ..	..
			Total ..	35,005
			Total, Extensions and Improvements and Maintenance and Repairs.	14,64,712

219

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

II. INDIRECT RECEIPTS—		4,98,697
Share of Land Revenue collected in the Civil Department.	7,874	12,042
Total, Public Works and Civil Departments, Revenue.	35,713	275
Total, Receipts.	35,713	19,75,181
		1,60,630
		54,362
		21,90,073
		1,55,684
		20,34,389
		11,89,605
		32,23,994

* Direct—		RS.
Extensions and improvements ..	1,329	
Maintenance and repairs ..	3,126	
Establishment ..	1,745	
Tools and plant ..	53	
Total, Direct ..	6,453	
Indirect ..	47	
Total, Direct and Indirect ..	6,500	

IV. ESTABLISHMENT	15,093
V. TOOLS AND PLANT ..	399
VI. REFUNDS OF REVENUE ..	..
Deduct—Recoveries on Revenue account.	..
Total, Direct charges ..	50,537
Share of collection charges in the Civil Department.	1,778
Indirect charges ..	351
Total, Direct and Indirect Charges.	52,666
* Deduct—Old maintenance charges saved to Government.	6,500
Net Total ..	46,166
Balance, Net revenue ..	10,463
Grand Total ..	35,713

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

CHICACOLE MINOR RIVERS SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938.	3,67,663	Net revenue realized to end of 1937-1938.	12,00,038
Total interest charges for the year 1938-1939.	12,519	Net revenue realized during 1938-1939.	— 10,453
Balance, net revenue ..	8,09,423		
Total ..	11,89,605	Total ..	11,89,605

No. 5.—Account of Indirect Charges for and to end of 1938-193

Particulars.	During the year. RS.	To end of the year RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	4,084
Leave and pension allowances	..	6,830
Audit and accounts	..	116
Total ..	..	11,030
REVENUE—		
Capitalization of abatement of land revenue ..	..	9,367
Leave and pension allowances	..	37,017
Audit and accounts	351	7,878
Total ..	351	54,262
Grand Total ..	351	65,292

CHICACOLE MINOR RIVERS SYSTEM—Canal Project—cont.
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. RS.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
<i>Direct Charges.</i>	RS.	RS.	RS.				
Works ..	1,02,797	1,24,865	2,27,662	..	..	..	2,27,662
Establishment ..	23,382	26,725	50,107	..	..	..	50,107
Tools and plant ..	..	427	427	..	..	..	427
Suspense account ..	..	..	..	..	..	..	..
Total ..	1,26,179	1,52,017	2,78,196	..	..	..	2,78,196
Less—Receipts on Capital Account.	..	..	..	..	..	..	..
Net Total ..	1,26,179	1,52,017	2,78,196	..	..	..	2,78,196
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue.	..	4,084	4,084	..	..	..	4,084
Leave and pension allowances ..	3,274	3,556	6,830	..	..	..	6,830
Audit and accounts ..	..	116	116	..	..	..	116
Total ..	3,274	7,756	11,030	..	..	..	11,030
Grand Total ..	1,29,453	1,59,773	2,89,226	..	..	..	2,89,226

The construction estimate of the project was closed on 31st March 1900 and the completion report approved in G.O. No. 152 I, dated 17th May 1911.

LOWER COLEROON ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 119 of the Administrative Accounts
for 1934-1935.]

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

LOWER COLERON ANICUT SYSTEM—*Canal Project—cont.*
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
I. DIRECT RECEIPTS—					
2 Owners' rates	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.
3 Sales of water	150	123	(1) Head works	138	1,85,720
4 Water-supply of towns	227	2,262	(2) Main canals and branches	4,411	7,94,034
5 Receipts from plantations	2,457	4,123	(3) Distributaries	218	65,955
6 Receipts from other canal produce	691	80,469	(4) Drainage and protective works	..	10,039
8 Navigation receipts	..	51,010	(5) Special tools and plant	..	1,800
9 Rents of buildings	382	298	Add—Unclassifiable outlay	..	24,873
11 Miscellaneous	518	9,286	Total	4,767	10,78,821
Recoveries of expenditure	129	1,867			
Deduct—Refunds	68	2,461	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in Public Works Department	4,486	1,76,997	(1) Head works	7,907	2,78,239
Irrigation revenue realized in Civil Department	2,04,306	2,07,03,528	(2) Main canals and branches	72,873	24,79,963
.. .. .	..	..	(3) Distributaries	3,893	3,80,526
.. .. .	..	..	(4) Drainage and protective works	629	48,661
.. .. .	..	..	(5) Special tools and plant	..	..
Total, Direct Receipts	2,68,852	2,08,80,525	Add—Unclassifiable outlay	..	4,82,053
			Total	85,302	36,09,442
II. INDIRECT RECEIPTS—			Total, Extensions and Improvements and Maintenance and Repairs		
Share of land revenue collected in the Civil Department	51,515	44,02,883	IV. ESTABLISHMENT		
Total, Public Works and Civil Departments, Revenue	3,20,367	2,52,83,408	V. TOOLS AND PLANT		
.. .. .	..	..	VI. REFUNDS OF REVENUE		
.. .. .	..	..	Deduct—Recoveries on revenue account		
.. .. .	..	..	Total, Direct Charges		
.. .. .	..	..	1,35,860		
.. .. .	..	..	63,43,201		

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

LOWER COLEROON ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
			Sharp of collection charges in the Civil Department ..	15,794	12,55,321
			Indirect charges ..	901	1,68,727
			Total, Direct and Indirect charges ..	1,52,555	77,67,249
			* Deduct—Old maintenance charges saved to Government ..	10,335	2,65,634
			Balance, net revenue ..	1,42,220	75,02,215
			Net Total ..	1,78,147	1,77,81,193
Total, Receipts ..	3,20,367	2,52,83,408	Grand Total ..	3,20,367	2,52,83,408
* Direct—					
Extensions and improvements ..	..	2,427	Indirect ..	..	73
Maintenance and repairs ..	..	4,853	Total, Direct and Indirect ..	..	10,335
Establishment ..	..	2,976			
Tools and plant ..	..	6			
Total, Direct ..	..	10,262			

ADMINISTRATIVE ACCOUNTS.
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

LOWER COLEROON ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938 ..	37,63,750	Net revenue realized to end of 1937-1938 ..	1,76,03,046
Total interest charges for the year 1938-1939 ..	1,31,104	Net revenue realized during 1938-1939 ..	1,78,147
Balance, net revenue ..	1,38,86,339		
Total ..	1,77,81,193	Total ..	1,77,81,193

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	33,241
Leave and pension allowances ..	..	45,917
Audit and accounts ..	..	9,088
Total ..	..	88,246
REVENUE—		
Capitalization of abatement of land revenue ..	..	18,110
Leave and pension allowances ..	..	1,22,721
Audit and accounts ..	901	27,896
Total ..	901	1,68,727
Grand Total ..	901	2,56,973

LOWER COLeroon ANICUT SYSTEM—Canal Project—cont.

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.	Charges to date.	Amount of sanctioned estimate.	
	RS.	RS.			RS.
Direct Charges.					
Works—					
Establishment	10,67,518	13,89,734	..	..	24,57,252
Tools and plant	2,32,629	2,09,937	..	..	4,42,566
Suspense account	..	2,721	..	..	16,780
Total	13,14,206	16,02,392	..	..	29,16,598
Less—Receipts on Capital Account.	..	3,175	..	..	3,175
Net Total	13,14,206	15,99,217	..	..	29,13,423
Indirect Charges.					
Capitalized abatement of land revenue	10,946	22,295	..	..	33,241
Leave and pension allowances	32,568	13,349	..	..	45,917
Audit and accounts	..	9,088	..	..	9,088
Total	43,514	44,732	..	..	88,246
Grand Total	13,57,720	16,43,949	..	..	30,01,669

The construction estimate of the project was closed on 30th June 1903 and the completion report approved in G.O. No. 400 L., dated 24th September 1903

KISTNA EAST BANK CANAL EXTENSION SCHEME—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account	DIRECT CHARGES.		Cost of constructions as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. Works—			
(1) Headworks	38,163	7,12,914	6,73,105
(2) Main canals and branches	1,736	16,88,371	18,75,415
(3) Distributaries	163	9,51,188	10,08,961
(4) Drainage and protective works	3,704	2,48,106	2,95,558
(5) Water courses	7,681	2,08,780	1,75,000
(6) Special tools and plant	..	3,41,033	3,41,033
Total, Works	51,447	41,50,392	43,69,072
II. Establishment	18,760	7,75,233	6,45,678
III. Tools and plant	63	6,88,557	7,34,520
V. Less receipts on capital account	4,550	24,038	24,038
Net outlay in India and England	65,720	55,90,144	57,25,232

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

KISTNA EAST BANK CANAL EXTENSION SCHEME—*Canal Project*—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year. RS.	To end of the year. RS.		During the year. RS.	To end of the year. RS.
DIRECT RECEIPTS—					
3. Sale of water	..	..	(1) Headworks	..	52,048
4. Water-supply of towns	..	..	(2) Main canals and branches	2,784	12,973
5. Receipts from plantations	..	843	(3) Distributaries	493	20,045
6. Receipts from other canal produce	2,545	38,268	(4) Drainage and protective works.	..	7,142
			(5) Special tools and plant	..	639
8. Navigation receipts	378	29,006	Total	3,277	92,897
9. Rents of buildings	718	22,017	II. MAINTENANCE AND REPAIRS—		
10. Fines	..	3	(1) Headworks	..	18,56,261
11. Miscellaneous	104	3,840	(2) Main canals and branches	15,554	2,98,463
Recoveries of expenditure	..	546	(3) Distributaries	17,173	1,38,754
<i>Deduct—Refunds</i>	1	1,113	(4) Drainage and protective works.	11,732	45,897
			(5) Special tools and plant	..	20,730
			<i>Add—Unclassifiable outlay</i>	..	..
Total, revenue realized in Public Works Department	3,744	94,310	Total	44,459	23,60,105
Irrigation Revenue realized in Civil Department	2,69,092	48,49,985	Total, Extensions and Improvements and Maintenance and Repairs	47,736	24,53,002
Total, Direct Receipts	2,72,836	49,44,295	IV. ESTABLISHMENT	20,999	10,15,786
			V. TOOLS AND PLANT	59	70,003

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

II. INDIRECT RECEIPTS—		VI. REFUNDS OF REVENUE		15
Share of land Revenue collected in the Civil Department	87,205	Deduct—Recoveries on account	176	
		Total, Direct charges	68,794	35,39,230
Total, Public Works and Civil Department, Revenue	3,60,041	Share of collection charges in the Civil Department	14,321	2,57,463
		Indirect charges	477	95,393
		Total, Direct and Indirect charges	83,592	38,92,091
		* Deduct—Old maintenance charges saved to Government	16,421	4,58,305
		Net total	67,171	34,33,786
		Balance, net revenue	2,92,870	30,83,940
Total, Receipts	3,60,041	Grand Total	3,60,041	65,17,726
		ns.		
		* Direct—		
		Extensions and improvements	49	
		Maintenance and repairs	12,131	
		Establishment	4,104	
		Tools and plant	15	
		Total, Direct	16,299	
		Indirect	122	
		Total, Direct and Indirect	16,421	

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KISTNA EAST BANK CANAL EXTENSION SCHEME—*Canal Project—cont.*

No. 4.—Interest Account for and to end of 1938–1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937–1938 ..	28,40,121	Net revenue realized to end of 1937–1938 ..	27,91,070
Total interest charges for the year 1938–1939 ..	2,49,644	Net revenue realized during 1938–1939 ..	2,92,870
		Balance—Net interest charges ..	5,825
Total ..	30,89,765	Total ..	30,89,765

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	3	22,197
Leave and pension allowances ..	..	52,699
Audit and accounts ..	514	30,683
Total ..	517	1,05,579
REVENUE—		
Capitalization of abatement of land revenue ..	..	388
Leave and pension allowances ..	..	77,881
Audit and accounts ..	477	17,124
Total ..	477	95,393
Grand Total ..	994	2,00,972

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

KISTNA EAST BANK CANAL EXTENSION SCHEME—*Canal Project—cont.*

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. RS.
	Expenditure against construction estimate.	RS.	Expenditure against open canal sanction.	RS.	Charges to date.	Amount of sanctioned estimate.	
Direct Charges.							
Works ..	9,86,285	..	5,30,147	..	26,33,960	28,52,640	41,50,392
Establishment ..	1,87,250	..	2,10,846	..	3,77,137	2,47,582	7,75,233
Tools and plant ..	6,71,389	..	6,078	..	11,090	57,053	6,88,557
Suspense account ..	..	..	..	..	..	..	..
Total ..	18,44,924	..	7,47,071	..	30,22,187	31,57,275	56,14,182
Less—Receipts on Capital Account.	377	..	23,661	..	..	..	24,038
Net Total ..	18,44,547	..	7,23,410	..	30,22,187	31,57,275	55,90,144
Indirect Charges.							
Capitalized abatement of land revenue ..	379	..	21,818	..	..	..	22,197
Leave and pension allowances ..	26,215	..	26,484	..	..	..	52,699
Audit and accounts ..	..	..	4,344	..	26,339	28,526	30,683
Total ..	26,594	..	52,646	..	26,339	28,526	1,05,579
Grand Total ..	18,71,141	..	7,76,056	..	30,48,526	31,85,801	56,95,723

The construction estimate of the Project was closed on 31st October 1913 and the completion report approved in G.O. No. 143 L., dated 3rd April 1917.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

TOLUDUR RESERVOIR SYSTEM.

No. 2.—Capital account for and to end of 1938–1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. Works—			
(1) Head works		13,76,795	13,76,795
(2) Main canals and branches	9,590	1,81,411	2,00,507
(3) Distributaries		1,02,401	1,02,401
(6) Special tools and plant		61,411	61,411
Total, Works	9,590	15,99,196	16,18,292
II. Establishment	3,920	4,75,135	4,77,997
III. Tools and plant	8	3,05,959	3,06,626
V. Less receipts on capital account.		9,815	9,815
Net outlay in India and England	13,518	23,70,475	23,93,100

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations		1,314	(1) Head works	39	13,009
6. Receipts from other canal produce.	267	2,681	(2) Main canals and branches	867	9,796
9. Rents of buildings	4	1,404	(3) Distributaries	355	8,397
II. Miscellaneous	80	1,404	(4) Drainage and protective works.	2,795	2,894
Recoveries of expenditure		383	(5) Special tools and plant		
Deduct—Refunds	4	229	Total	4,056	34,086
Total, Revenue realized in Public Works department	355	5,914	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil department	89,804	14,22,861	(1) Head works	18,209	79,404
Total, Direct Receipts	90,159	14,28,775	(2) Main canals and branches	18,087	2,61,572
II. INDIRECT RECEIPTS—			(3) Distributaries	4,564	55,155
Share of Land Revenue collected in the Civil department	448	4,032	(4) Drainage and protective works		201
Total, Public Works and Civil departments Revenue	90,607	14,32,807	(5) Special tools and plant		
			Add—Unclassified outlay		
			Total	40,950	3,96,332
			Total, Extensions and Improvements and Maintenance and Repairs	45,006	4,30,428
			IV. ESTABLISHMENT	29,063	1,68,310
			V. TOOLS AND PLANT	39	1,661
			VI. REFUNDS OF REVENUE		
			Deduct—Recoveries on revenue account		240
			Total, Direct Charges	65,108	6,00,159
			Share of collection charges in the Civil department	4,513	71,346
			Indirect Charges	464	5,797
			Total, Direct and Indirect Charges	70,085	6,77,302
			Balance net revenue	20,522	7,55,505
			Grand Total	90,607	14,32,807
Total, Receipts	90,607	14,32,807			

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

TOLUDUR RESERVOIR SYSTEM—cont.

No. 4.—Interest Accounts for and to end of 1938-1939.

	Amount.		Amount
	RS.		RS.
Total interest charges to end of 1937-38 ..	20,57,455	Net revenue realized to end of 1937-38 ..	7,34,98
Total interest charges for the year 1938-39 ..	1,06,342	Net revenue realized during 1938-39 ..	20,52
		Balance, net interest charges.	14,08,29
Total ..	21,63,797	Total ..	21,63,79

No. 5.—Account Indirect Charges for and to end of 1938-39.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	439	1,81,158
Leave and pension allowances	..	66,102
Audit and accounts	96	4,493
Total ..	535	2,51,753
REVENUE—		
Capitalization of abatement of land revenue ..	14	606
Leave and pension allowances	..	886
Audit and accounts	450	4,305
Total ..	464	5,797
Grand Total ..	999	2,57,550

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

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.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	RS.
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.
Works	16,12,421	—	15,414	34,510	19,096	15,99,196
Establishment	4,74,048	—	6,555	9,417	2,862	4,75,135
Tools and plant	3,06,052	—	23	690	667	3,05,959
Suspense account	..	..	..	..	..	..
Total ..	23,92,521	—	21,992	44,617	22,625	23,80,290
Less—Receipts on Capital Account.	8,322	1,493	..	..	..	9,815
Net Total ..	23,84,199	—	21,992	44,617	22,625	23,70,475
Indirect Charges.						
Capitalized abatement of land revenue ..	1,80,460	698	..	2,348	2,348	1,81,158
Leave and pension allowances	66,102	..	..	..	..	66,102
Audit and accounts	4,566	..	155	345	190	4,493
Total ..	2,51,128	470	155	2,693	2,538	2,51,753
Grand Total ..	20,35,327	—	22,147	47,310	25,163	26,22,228

The construction estimate of the project was closed on 31st October 1925 and the completion report approved in G.O. No. 514 I., dated 28th February 1931.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

POLAVARAM ISLAND PROJECT—Canal Project.

No. 2.—Capital Account for and to end of 1938–1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. Works—			
(2) Main canals and branches	..	2,78,359	2,78,359
(3) Distributaries	..	8,99,316	8,99,316
(4) Drainage and Protective Works.	1,091	1,12,259	1,18,99
Total, Works ..	1,091	12,89,934	12,96,66
II. Establishment	409	3,68,930	3,68,73
III. Tools and plant	12	14,344	15,12
Grand Total ..	1,512	16,73,208	16,80,52
V. Less—Receipts on Capital Account ..	..	4,099	4,09
Net outlay in India and England ..	1,512	16,69,109	16,76,42

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

No. 3.—Revenue Account for and to end of 1938-1939.									
Receipts.					Charges.				
TOTAL.		TOTAL.		TOTAL.		TOTAL.		TOTAL.	
During the year.		To end of the year.		During the year.		To end of the year.		During the year.	
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. DIRECT RECEIPTS—									
5. Receipts from plantations ..		127	2,805	I. EXTENSIONS AND IMPROVEMENTS—		(1) Head works ..		..	..
6. Receipts from other canal produce ..		81	1,388	(2) Main canals and branches ..		(2) Main canals and branches ..		..	..
8. Navigation receipts ..		..	4	(3) Distributaries ..		(3) Distributaries ..		1,068	10,380
9. Rents of buildings ..		..	153	(4) Drainage and protective works ..		(4) Drainage and protective works ..		..	..
Recoveries of expenditure ..		..	141	(5) Special tools and plant ..		(5) Special tools and plant ..		..	..
11. Miscellaneous ..		6	43	Total ..		Total ..		1,068	10,658
Deduct—Refunds ..		..	137	II. MAINTENANCE AND REPAIRS—		(1) Head works ..		..	..
Total Revenue realized in Public Works Department ..		229	4,297	(2) Main canals and branches ..		(2) Main canals and branches ..		..	1,264
Irrigation Revenue realized in Civil Department ..		87,804	10,48,378	(3) Distributaries ..		(3) Distributaries ..		4,767	55,513
Total, Direct Receipts ..		88,033	10,52,675	(4) Drainage and protective works ..		(4) Drainage and protective works ..		7,957	9,332
II. INDIRECT RECEIPTS—		..	..	(5) Special tools and plant ..		(5) Special tools and plant ..		..	..
Share of land revenue collected in the Civil Department ..		..	..	Add—Unclassifiable outlay ..		Add—Unclassifiable outlay ..		..	..
Total, Public Works and Civil Departments, Revenue ..		88,033	10,52,675	Total ..		Total ..		12,724	66,109
Total, Receipts ..		88,033	10,52,675	Total, Extensions and Improvements and Maintenance and Repairs ..		Total, Extensions and Improvements and Maintenance and Repairs ..		13,792	70,767
IV. ESTABLISHMENT ..		..	..	V. TOOLS AND PLANT ..		V. TOOLS AND PLANT ..		6,842	37,181
VI. REFUNDS OF REVENUE ..		..	..	VI. REFUNDS OF REVENUE ..		VI. REFUNDS OF REVENUE ..		156	762
Total, Direct Charges ..		20,790	1,14,710	Total, Direct Charges in the Civil Department ..		Total, Direct Charges in the Civil Department ..		4,390	52,417
Share of collection charges in the Civil Department ..		..	..	Indirect Charges ..		Indirect Charges ..		138	777
Total, Direct and Indirect Charges ..		25,318	1,67,904	Total, Direct and Indirect Charges ..		Total, Direct and Indirect Charges ..		25,318	1,67,904
Balance, net revenue ..		62,715	8,84,771	Balance, net revenue ..		Balance, net revenue ..		62,715	8,84,771
Grand Total ..		88,033	10,52,675	Grand Total ..		Grand Total ..		88,033	10,52,675

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

POLAVARAM ISLAND PROJECT—*Canal Project*—cont.

No. 4.—Interest for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-38	8,48,652	Net revenue realized to end of 1937-38 ..	8,22,056
Total interest charges for the year 1938-39	75,070	Net revenue realized during 1938-39 ..	62,715
		Balance, net interest charges	38,951
Total ..	9,23,722	Total ..	9,23,722

No. 5.—Accounts of Indirect Charges for and to end of 1938-39.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	66	10,146
Leave and pension allowances	..	4,423
Audit and accounts	11	12,897
Total ..	77	27,466
REVENUE—		
Capitalization of abatement of land revenue ..	..	10
Leave and pension allowances	..	767
Audit and accounts	138	777
Total ..	138	777
Grand Total ..	215	28,243

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

POLAVARAM ISLAND PROJECT—*Canal Project*—cont.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction.	Total. RS.	Charges to date. RS.	Amount of sanctioned estimate. RS.	Unspent balance of estimate. RS.	
<i>Direct Charges.</i>							
Works ..	12,33,116	..	12,33,116	56,818	63,550	6,732	12,89,934
Establishment ..	3,51,544	..	3,51,544	17,386	17,191	— 195	3,68,930
Tools and plant ..	13,850	..	13,850	494	1,271	777	14,344
Suspense account ..	..	..	..	..	..	..	..
Total ..	15,98,510	..	15,98,510	74,698	82,012	7,314	16,73,208
<i>Less—Receipt on Capital Account.</i>	4,099	..	4,099	..	..	..	4,099
Net Total ..	15,94,411	..	15,94,411	74,698	82,012	7,314	16,69,109
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	10,080	..	10,080	66	..	— 66	10,146
Leave and pension allowances ..	4,423	..	4,423	..	636	69	4,423
Audit and accounts ..	12,830	..	12,830	567	..	..	12,897
Total ..	26,833	..	26,833	633	636	3	27,466
Grand Total ..	16,21,244	..	16,21,244	75,331	82,648	7,317	16,96,575

The construction estimate of the project was closed on 28th February 1934 and the completion report approved in G.O. No. 1258, Public Works Department (Irrigation), dated 26th May 1936.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project.*

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. WORKS—			
(1) <i>Head Works—</i>			
A. Preliminary expenses	..	1,86,634	1,85,000
B. Land	..	30,31,367	30,10,000
C. Works	1,25,408	2,70,67,959	2,83,00,000
K. Buildings	..	25,58,078	25,87,000
O. Miscellaneous	..	29,97,633	30,74,000
P. Maintenance	..	11,106	34,000
Total ..	1,25,408	3,58,52,777	3,71,90,000
(2) <i>Main Canals and Branches—</i>			
(a) <i>Grand Anicut Canal system—</i>			
A. Preliminary expenses	..	98,520	99,000
B. Land	..	11,40,892	12,00,000
D. Regulators	..	3,06,822	3,20,000
E. Falls and weirs	..	1,67,144	1,70,000
F. (1) Other cross drainage works	15,045	24,88,989	23,60,000
G. Bridges	..	8,03,085	8,25,000
H. Escapes	..	29,189	25,000
K. Buildings	18,446	2,74,396	2,22,000
L. Earthwork	..	32,49,173	33,20,000
M. Plantations	..	17,625	25,000
O. Miscellaneous	1,118	1,02,381	85,000
P. Maintenance	..	1,02,132	1,20,000
Total ..	34,609	87,80,348	87,71,000
(b) <i>Vadavar system—</i>			
A. Preliminary expenses	..	20,845	20,900
B. Land	..	90,799	91,000
D. Regulators	..	27,592	27,600
E. Falls and weirs	..	25,182	24,360
F. (1) Other cross drainage works	..	57,293	54,080
G. Bridges	— 325	41,875	40,000
H. Escapes	..	24,349	24,350
K. Buildings	258	29,807	28,750
L. Earthwork	..	2,04,098	2,03,800
M. Plantations	..	4,049	4,060
O. Miscellaneous	..	13,604	14,500
P. Maintenance	..	9,664	10,600
Total ..	— 67	5,49,157	5,44,000
Total, (2) Main Canals and Branches.	34,542	93,29,505	93,15,000

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project—cont.*No. 2.—Capital Account for and to end of 1938-1939—*cont.*

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. WORKS— <i>cont.</i>			
(3) <i>Distributaries—</i>			
(a) <i>Grand Anicut Canal system—</i>			
A. Preliminary expenses	..	1,30,714	1,32,000
B. Land	8,314	27,01,272	28,75,000
C. Works	1,954	14,13,881	11,25,000
L. Earthwork	565	8,63,896	8,90,000
M. Plantations	..	11,346	18,000
O. Miscellaneous	..	72,335	80,000
P. Maintenance	..	40,194	40,000
Total ..	10,833	52,33,548	51,60,000
(b) <i>Vadayar system—</i>			
A. Preliminary expenses	..	22,604	22,800
B. Land	..	4,58,943	4,57,200
C. Works	— 30	2,06,057	2,09,000
L. Earthwork	— 428	2,46,986	2,48,000
M. Plantations	..	2,773	2,800
O. Miscellaneous	— 7	13,894	16,000
P. Maintenance	..	17,839	24,000
Total ..	— 465	9,69,096	9,79,800
Total, (3) Distributaries ..	10,368	62,02,644	61,39,800
(6) <i>Special Tools and Plant</i> ..	— 69,515 *	87,76,206	87,00,000
<i>Loss on stock</i> ..	1,337	2,53,471	10,200
Total, Works ..	1,02,140	6,04,14,603	6,13,55,000
II. ESTABLISHMENT (a)—			
Non-voted—(Charges)—			
Pay of officers	..	14,33,255	..
Cost of passage granted	..	27,965	..
Other compensatory allowances. } ..	..	98,636	..
Travelling allowance	..	..	..
Contingencies	..	137	..
Supervision charges	..	5,526	..
Bonus contribution to Special Provident Fund	..	12,942	..
Deduct—Recoveries	..	4,637	..
Voted—			
Pay of officers	1,710	10,59,585	..
Pay of establishment	3,496	21,87,004	..
Travelling allowance	..	..	..
Fixed travelling allowance	..	3,49,989	..
Other compensatory allowance. } ..	..	..	..
Contract contingencies	..	85	..
Supplies and services	..	2,093	..

* Salvage value of Special Tools and Plant has been taken as a reduction of expenditure under "Special Tools and Plant" instead of being credited to "Receipts and recoveries on Capital Account"—Vide Auditor-General letter No. 769 Administration—N/431-27, dated 22nd May 1929.

CAUVERY-METTUR RESERVOIR PROJECT—Canal Project—cont.

No. 2.—Capital Account for and to end of 1938-1939—cont.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated. rs.
	During the year. rs.	To end of the year. rs.	
II. ESTABLISHMENT (a)—cont.			
Voted—cont.			
Non-contract contingencies—			
Stationery and Printing	..	2,07,832	..
Other contingencies	..	58,231	..
Supervision charges	..	40,947	..
Bonus contribution to Special Provident Fund	..	12,704	..
Charges payable to Government—			
Departments, etc.	..	1,104	..
Total	5,206	54,93,398	..
English cost of establishment—			
Par value (Voted and Non-voted)	..	3,32,962	..
Loss or gain by exchange	..	8,585	..
Deduct—Recoveries (Voted)	..	2,53,540	..
Add—Amount debited by transferred establishment (Establishment inclusive of pensionary charges)	34,436	83,255	..
Add—Pensionary charges	619	5,62,702	..
Net total, Establishment (a)	40,261	62,27,362	58,75,000
III. TOOLS AND PLANT—			
New supplies—			
Scientific instruments and drawing materials	..	64,900	..
Tools	..	1,20,165	..
Office furniture	..	43,887	..
Navigation plant	..	1,285	..
Camp equipage	..	29,586	..
Repairs and carriage	..	37,844	..
Total, Tools and Plant	..	2,97,667	..
Deduct—Charges debited to other heads of account	..	..	..
Add—Amount debited by Transferred establishment	95	— 289	..
Net Total, Tools and Plant	95	2,97,378	3,00,000
IV. SUSPENSE	— 3,047	1,00,804	90,000
Grand Total	1,39,449	6,70,40,147	6,76,20,000
V. Less—RECEIPTS ON CAPITAL ACCOUNT			
.. ..	17,849	21,46,659	8,50,000
Net outlay in India and England	1,21,600	6,48,93,488	6,67,70,000

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

Charges.	TOTAL.		Receipts.	TOTAL.	
	During the year. rs.	To end of the year. rs.		During the year. rs.	To end of the year. rs.
I. EXTENSIONS AND IMPROVEMENTS—			1. DIRECT RECEIPTS—		
(1) Head works ..	419	7,927	3. Sales of water ..	205	..
(2) Main canals and branches ..	8,325	76,842	5. Receipts from plantations ..	3,028	..
(3) Distributaries ..	5,784	52,036	6. Receipts from other canal produce ..	71	..
Total ..	14,528	1,39,805	8. Navigation ..	22	..
II. MAINTENANCE AND REPAIRS—			9. Rents of buildings ..	10,408	..
(1) Head works ..	58,350	3,35,690	10. Fines ..	..	..
(2) Main canals and branches ..	64,387	4,74,462	11. Miscellaneous ..	2,431	..
(3) Distributaries ..	49,015	2,36,469	Recoveries of expenditure ..	22	..
(4) Drainage and protection works ..	3,787	6,243	Deduct—Refunds ..	11	..
Total ..	1,75,539	10,53,164	Total, Revenue realized in Public Works Department ..	16,176	..
III. COMPENSATION—			irrigation revenue realized in Civil Department ..	12,03,931	..
Total, Extensions and Improvements and Maintenance and Repairs ..	1,90,067	11,92,969	Total, Direct Receipts ..	12,20,107	..
IV. ESTABLISHMENT ..	86,319	4,95,247	I. INDIRECT RECEIPTS—		
V. TOOLS AND PLANT ..	170	3,837	Share of land revenue collected in the Civil Department ..	..	..
Total, Direct Charges ..	2,75,556	16,92,053	Total, Public Works and Civil Departments, Revenue ..	12,20,107	..
Share of collection charges in the Civil Department ..	60,197	2,82,819	* DIRECT—		
Indirect charges ..	2,255	12,260	Extension and Improvements ..	..	..
Total, Direct and Indirect Charges ..	3,38,008	19,37,132	Maintenance and Repairs ..	..	..
* Deduct—Old maintenance charges saved to Government ..	16,184	16,184	Establishment ..	..	..
Net, Total ..	3,21,824	19,70,948	Tools and Plant ..	..	..
Balance Net Revenue ..	8,98,283	38,11,130	Total, Direct ..	16,070	..
Grand Total ..	12,20,107	57,82,078	Indirect ..	114	..
			Total, Direct and Indirect ..	16,184	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CAUVERY-METTUR RESERVOIR PROJECT—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

Amount.	Amount.
RS.	RS.
Total interest charges to end of 1937-1938 ..	2,70,58,379
Total interest charges for the year 1938-1939 ..	29,17,443
	<u>2,99,75,822</u>
Net revenue realized to end of 1937-1938 ..	29,12,847
Net revenue realized during 1938-1939 ..	8,98,283
Balance, net interest charges ..	2,61,64,692
	<u>2,99,75,822</u>

No. 5.—Account of Indirect Charges for and to end of 1938-39.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	185	4,48,680
Leave and pension allowance ..	..	23,617
Audit and accounts ..	1,022	5,75,247
Total ..	<u>1,207</u>	<u>10,47,544</u>
REVENUE—		
Capitalization of abatement of land revenue ..	354	354
Audit and accounts ..	1,901	11,906
Total ..	<u>2,255</u>	<u>12,260</u>
Grand Total ..	<u>3,462</u>	<u>10,59,840</u>

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

CAUVERY-METTUR RESERVOIR PROJECT—Canal Project—cont.

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.	Charges to date.	Amount of sanctioned estimate.	
			RS.	RS.	RS.
Direct Charges.					
Works ..	..	..	6,04,14,603	6,13,55,000	9,40,397
Establishment ..	..	..	62,27,362	58,75,000	— 3,52,362
Tools and plant ..	..	..	2,97,378	3,00,000	2,622
Suspense account ..	..	..	1,00,804	90,000	— 10,804
Total ..	..	..	6,70,40,147	6,76,20,000	5,79,863
Less—Receipts on Capital Account.	..	..	21,46,659	8,50,000	— 12,96,659
Total outlay in India and England ..	..	..	6,48,93,488	6,67,70,000	18,76,512
Indirect Charges.					
Capitalization of abatement of land revenue ..	..	..	4,48,680	4,89,000	40,320
Leave and pension allowances ..	..	..	23,617	25,000	1,383
Audit and accounts ..	..	..	5,75,247	6,10,000	40,753
Total ..	..	..	10,47,544	11,30,000	82,456
Grand total outlay in India and England ..	..	..	6,59,41,032	6,79,00,000	19,58,968

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KATTALAI ANICUT SCHEME—*Canal Project.*

No. 2.—Capital Account for and to end of 1938–1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. Works—			
(1) <i>Head Works—</i>			
B. Land		257	
C. Works		5,91,068	5,14,349
K. Buildings		2,510	10,000
O. Miscellaneous		12,392	1,18,651
Unforeseen works			37,000
P. Maintenance		18,814	
Total, Head works		6,25,041	6,80,000
(2) <i>Main Canals and Branches—</i>			
A. Preliminary expenses		11,933	20,004
B. Land	822	4,79,452	4,58,169
C. Works		52,240	55,135
D. Regulators		92,541	1,01,030
E. Falls and weirs		22,849	25,703
F. Cross drainage	3,280	3,31,903	3,47,635
F. (1) Other cross and drainage works		3,317	3,470
G. Bridges		2,72,749	2,58,012
H. Escapes		40,913	
K. Buildings		28,865	39,382
L. Earthwork	1,506	11,52,465	12,99,368
M. Plantations			11,000
N. Tanks			46,600
O. Miscellaneous	25,187	52,130	67,140
P. Maintenance		43,740	43,359
Unforeseen works			92,425
Total, Main Canals	30,795	25,85,097	28,68,432
(3) <i>Distributaries—</i>			
B. Land	377	87,512	43,851
C. Works	250	12,146	23,304
E. Falls and weirs	508	11,624	27,182
L. Earthwork	604	40,382	60,079
O. Miscellaneous	115	12,637	11,584
Total	1,854	1,64,301	1,66,000
(6) <i>Special Tools and Plant</i>	36	36,560	96,392
Loss on stock		2	
Total, Works	32,685	34,11,001	38,10,824

II. ESTABLISHMENT—

Non-voted (Charged)—			
Pay of officers		45,325	
Passage pay		476	
Travelling allowance		6,945	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

KATTALAI ANICUT SCHEME—*Canal Project—cont.*No. 2.—Capital Account for and to end of 1938–1939—*cont.*

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
II. ESTABLISHMENT— <i>cont.</i>			
Voted—			
Pay of officers		52,743	
Pay of establishment		1,14,462	
Travelling allowance			
Fixed travelling allowance			
Other compensatory allowance		34,722	
Non-contract, contingencies—			
Miscellaneous			
Total, Establishment		2,58,673	5,53,700
English cost of establishment—			
Par value		18,678	
Loss or gain by exchange		1,262	
Add—Pensionary charges on special establishment		21,700	
Add—Supervision charges on special establishment		14,984	
Add—Amount debited by Transferred establishment (inclusive of pensionary charges)	12,724	1,49,597	
Grand total, Establishment	12,724	4,64,894	5,53,700
III. TOOLS AND PLANT—			
New supplies—			
Scientific instruments and drawing materials		6,441	
Plant and machinery		3,306	
Tools		32,572	
Office furniture		2,510	
Repairs and carriage		8,290	
Total, Tools and Plant		53,119	57,750
Add—Amount debited by Transferred		— 529	
Net total, Tools and Plant		52,590	57,750
IV. SUSPENSE		1	
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	9	10,540	
Net outlay in India and England	45,400	39,17,946	44,22,274

KATTALAI ANICUT SCHEME—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
RS.	RS.	RS.		RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
Sales of water	50	369	(1) Head works	..	675
5. Receipts from plantations	1,940	24,046	(2) Main canals and branches	10,866	80,936
6. Receipts from other canal produce.	1,083	6,494	(3) Distributaries	..	1,523
8. Navigation receipts	26	352	(4) Drainage and protective works	73	1,171
9. Rents of buildings	191	1,466	(5) Special tools and plant	..	..
10. Fines	..	..	Total	10,939	82,955
11. Miscellaneous	26	152			
Recoveries of expenditure	47	1,121	II. MAINTENANCE AND REPAIRS—		
Deduct—Refunds	3	827	(1) Head works	..	29,073
Total revenue realized in the Public Works Department	3,360	33,173	(2) Main canals and branches	66,503	6,45,984
Irrigation revenue realized in Civil Department	75,112	5,46,315	(3) Distributaries	..	3,221
Total, Direct Receipts	78,472	5,79,488	(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	..
			Add—Unclassifiable outlay	..	..
			Total	66,503	6,78,978

I. Irrigation Revenue—			IV. Extensions and Maintenance and Repairs	77,442	7,61,533
Share of land revenue collected in the Civil Department	121	856	IV. ESTABLISHMENT	32,501	2,89,203
Total, Public Works and Civil Department	78,593	5,80,344	V. TOOLS AND PLANT	..	1,392
			VI. REFUNDS OF REVENUE	..	..
			Total, Direct Charges	1,09,943	10,52,128
			Share of collection charges in the Civil Department	3,757	27,325
			Indirect charges	925	7,768
			Total, Direct and Indirect Charges	1,14,625	10,87,221
			Deduct—Old maintenance charges saved to Government *	67,866	5,34,740
			Net Total	46,759	5,52,481
			Balance, Net revenue	31,834	27,863
			Grand Total	78,593	5,80,344
* DIRECT—					
Maintenance and repairs	..	..	RS.		
Establishment	..	..	48,500		
Tools and plant	..	..	18,881		
			Total, Direct	67,381	
INDIRECT	..	..	485		
			Total	67,866	

KATTALAI ANICUT SCHEME—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount. RS.		Amount RS.
Total interest charges to end of 1937–1938 ..	12,87,537	Net revenue realized to end of 1937–1938 ..	— 3,97
Total interest charges for the year 1938–1939 ..	1,75,198	Net revenue realized during 1938–1939 ..	31,83
		Balance, net interest charges ..	14,34,87
Total ..	14,62,735	Total ..	14,62,735

No. 5.—Account of indirect charges for and to end of 1938–1939

Particulars.	During the year. RS.	To end of the year RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	589	55,443
Leave and pension allowances ..	..	7,233
Audit and accounts ..	327	34,113
Total ..	916	96,789
Capitalization of abatement of land revenue ..	150	151
Audit and accounts ..	775	7,617
Total ..	925	7,768
Grand total ..	1,841	1,04,557

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. RS.	Amount of sanctioned estimate. RS.	Unspent balance of estimate. RS.	
<i>Direct charges.</i>							
Works ..	..	..	..	34,11,001	38,10,824	3,99,823	..
Establishment ..	..	..	..	4,64,894	5,53,700	88,806	..
Tools and plant ..	..	..	..	52,590	57,750	5,160	..
Suspense account ..	..	..	..	1	..	— 1	..
Total ..	..	..	..	39,28,486	44,22,274	4,93,788	..
Less—Receipt on capital account ..	..	..	..	10,540	..	— 10,540	..
Not total outlay in India and Eng-land ..	..	..	..	39,17,946	44,22,274	5,04,328	..
<i>Indirect charges.</i>							
Capitalized abatement of land revenue ..	..	..	..	55,443	46,097	— 9,346	..
Leave and pension allowance ..	..	..	..	7,233	7,233	..	..
Audit and accounts ..	..	..	..	34,113	38,108	3,995	..
Total ..	..	..	..	96,789	91,438	— 5,351	..
Grand total outlay in India and Eng-land.	..	..	..	40,14,735	45,13,712	4,98,977	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

KURNOOL-CUDDAPAH CANAL—*Canal Project.*

No. 2.—Capital Account for and to end of 1938–1939.

[Vide details on pages 148 and 149 of the Administrative Account for 1934–35.]

KURNOOL-CUDDAPAH CANAL—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1938–1939.

Receipts.	Total.	
	During the year.	To end of the year.
	RS.	RS.
I. DIRECT RECEIPTS—		
1. Water-rates from irrigation ..	..	35,98,514
3. Sale of water ..	..	8,807
4. Water-supply of towns ..	..	77,644
5. Receipts from plantations ..	..	24,278
6. Receipts from other canal produce ..	..	2,64,326
8. Navigation receipts ..	..	90,027
9. Rents of buildings ..	..	53,565
10. Fines ..	..	157
11. Miscellaneous ..	..	1,11,938
Recoveries of expenditure ..	..	6,964
Deduct—Refunds ..	1,680	4,224
Total revenue realized in Public Works Department.	4,103	42,31,936
Irrigation revenue realized in Civil Department.	2,85,402	88,19,853
Total, Direct Receipts ..	2,89,505	1,30,51,849

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

Changes.	Total.	
	During the year.	To end of the year.
	RS.	RS.
I. EXTENSIONS AND IMPROVEMENTS—		
(1) Head works ..	..	1,55,970
(2) Main canals and branches ..	..	4,38,289
(3) Distributaries ..	..	80,406
(4) Drainage and protective works ..	..	13,251
(5) Special tools and plant ..	..	— 168
Add—Unclassifiable outlay ..	..	565
Total ..	1,062	6,88,013
II. MAINTENANCE AND REPAIRS—		
(1) Head works ..	..	3,580
(2) Main canals and branches ..	..	59,582
(3) Distributaries ..	..	4,682
(4) Drainage and protective works ..	..	..
(5) Special tools and plant ..	..	5,891
Add—Unclassifiable outlay ..	..	11,150
Total ..	67,844	47,36,840
Total, Extensions and Improvements and Maintenance and Repairs ..	69,506	54,24,853
IV. ESTABLISHMENT ..	54,011	20,84,561
V. TOOLS AND PLANT ..	64	1,16,087
VI. REFUNDS OF REVENUE ..	..	14,592
Deduct—Recoveries on Revenue Account.	..	196
Total, Direct Charges ..	1,23,581	76,39,897

MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KURNOOL-CUDDAPAH CANAL—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	3,004	64,352	Share of collection charges in the Civil Department	14,399	4,53,843
			Indirect charges	695	2,53,708
			Total, Direct and Indirect Charges	1,38,675	83,47,448
			Deduct—Old maintenance charges saved to Government *	4,933	98,651
			Balance, net revenue	1,33,742	82,48,797
Total, Public Works and Civil Departments, Revenue	2,92,509	1,31,16,201	Net Total	1,38,675	48,67,404
Total, Receipts	2,92,509	1,31,16,201	Grand Total	2,92,509	1,31,16,201
* Direct—			RS.		
Extensions and improvements			232		
Maintenance and repairs			2,757		
Establishment			1,911		
Tools and plant			3		
Indirect			Total, Direct	4,903	
			.. .. .	30	
			Total, Direct and Indirect	4,933	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

KURNOOL-CUDDAPAH CANAL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

Amount.		Amount.	
RS.		RS.	
Total interest charges to end of 1937-1938	4,57,04,092	Net revenue realized to to end of 1937-1938	47,08,637
Total interest charges for the year 1938-1939	10,49,115	Net revenue realized during 1938-1939	1,58,767
		Balance, net interest charges	4,18,85,803
Total	4,67,53,207	Total	4,67,53,207

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	19,983
Leave and pension allowances	..	53,274
Audit and accounts	..	181
Total	..	73,438
REVENUE—		
Capitalization of abatement of land revenue	..	5,939
Leave and pension allowances	..	2,30,069
Audit and accounts	695	17,700
Total	695	2,53,708
Grand total	695	3,27,146

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KURNOOL-CUDDAPAH CANAL—Canal Project—cont.

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 sanctions.	Charges to date.	Unspent balance of sanctioned estimate.	
	RS.	RS.	RS.		RS.
<i>Direct charges.</i>					
Works ..	1,77,82,139	13,10,953	1,90,93,092	..	1,90,93,092
Establishment ..	..	3,80,864	3,80,864	..	3,80,864
Tools and plant ..	..	3,085	3,085	..	3,085
Suspense account ..	..	..	..	..	..
Loss by exchange ..	..	..	..	..	..
	40,80,918	..	40,80,918	..	40,80,918
Total ..	2,18,63,057	16,94,902	2,35,57,959	..	2,35,57,959
Less—Receipts on Capital Account.	2,24,115	20,108	2,44,283	..	2,44,283
Net total ..	2,16,38,942	16,74,734	2,33,13,676	..	2,33,13,676
<i>Indirect charges.</i>					
Capitalized abatement of land revenue ..	..	19,983	19,983	..	19,983
Leave and pension allowances ..	..	53,274	53,274	..	53,274
Audit and accounts ..	..	181	181	..	181
Total ..	..	73,438	73,438	..	73,438
Grand total ..	2,16,38,942	17,48,172	2,33,87,114	..	2,33,87,114

The date of closure of the construction estimate is not known.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

BARUR TANK—Tank Project.

No. 2.—Capital Account for and to end of 1938-1939.

Head of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. Works—			
(1) Head works ..	21	52,691	52,691
(2) Main canals and branches ..	..	1,25,675	1,25,675
(2) (a) Reservoirs ..	..	69,775	69,775
(3) Distributaries ..	..	94,642	94,642
(6) Special tools and plant ..	..	..	..
Total works ..	21	3,42,783	3,42,783
II. ESTABLISHMENT ..	5	78,506	78,506
III. TOOLS AND PLANT ..	..	6,961	6,961
Grand total ..	26	4,28,250	4,28,250
V. Less receipts on capital account ..	..	22	22
Net outlay in India and England ..	26	4,28,228	4,28,228

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

BARUR TANK—*Tank Project*—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year. rs.	To end of the year. rs.		During the year. rs.	To end of the year. rs.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations ..	50	7,878	(1) Head works ..	..	4,627
6. Receipts from other canal produce.	1,582	26,254	(2) Main canals and branches ..	194	20,822
9. Rents of buildings ..	83	1,435	(3) Distributaries ..	3	2,692
11. Miscellaneous ..	3	2,007	(4) Drainage and protective works ..	..	1,661
Recoveries of expenditure ..	..	39	(5) Special tools and plant ..	..	..
Deduct—Refunds ..	..	168	Total ..	197	29,802
Total, Revenue realized in Public Works Department ..	1,718	37,445	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department ..	16,842	7,00,429	(1) Head works ..	537	21,843
Total, Direct Receipts ..	18,560	7,37,874	(2) Main canals and branches ..	10,497	1,97,491
			(3) Distributaries ..	..	* - 35,101
			(4) Drainage and protective works ..	..	* + 12,090
			(5) Special tools and plant ..	..	* + 35,101
			Total ..	11,034	2,32,090
INDIRECT RECEIPTS—			Total, Extensions and Improvements and Maintenance and Repairs ..	11,231	2,61,892
Share of land revenue collected in the Civil Department ..	782	19,878	IV. ESTABLISHMENT ..	3,541	91,068
Total, Public Works and Civil Departments, Revenue ..	19,342	7,57,752	V. TOOLS AND PLANT ..	11	1,381
			VI. REFUNDS OF REVENUE ..	..	54
			Deduct—Recoveries on revenue account.	..	44
			Total, Direct Charges in the Civil Department ..	14,783	3,54,351
			Indirect charges ..	851	35,178
			Total, Direct and Indirect charges ..	15,746	10,177
			Balance, Net revenue ..	3,596	3,99,706
			Grand total ..	19,342	3,58,046
					7,57,752

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

BARUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. rs.
Total interest charges to end of 1937-1938 ..	7,77,597	Net revenue realized to end of 1937-1938 ..	3,54,450
Total interest charges for the year 1938-1939 ..	19,264	Net revenue realized during 1938-1939 ..	3,596
		Balance, net interest charges ..	4,38,815
Total ..	7,96,861	Total ..	7,96,861

No. 5.—Account of Indirect charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	13,000
Leave and pension allowances ..	..	10,738
Audit and accounts ..	..	71
Total ..	..	23,809
REVENUE—		
Capitalization of abatement of land revenue ..	..	130
Leave and pension allowances ..	..	8,931
Audit and accounts ..	112	1,116
Total ..	112	10,177
Grand total ..	112	33,986

BARUR TANK—*Tank Project*—cont.
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.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Direct Charges.</i>							
Works ..	3,11,681	31,102	3,42,783	..	..	..	3,42,783
Establishment ..	71,683	6,823	78,506	..	..	..	78,506
Tools and plant ..	6,883	78	6,961	..	..	..	6,961
Suspense account ..	..	..	..	..	..	..	..
Total ..	3,90,247	38,003	4,28,250	..	..	..	4,28,250
Less—Receipts on Capital Account.	22	..	22	..	..	..	22
Net Total ..	3,90,225	38,003	4,28,228	..	..	..	4,28,228
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	12,056	944	13,000	..	..	..	13,000
Leave and pension allowances ..	10,036	702	10,738	..	..	..	10,738
Audit and accounts ..	..	71	71	..	..	..	71
Total ..	22,092	1,717	23,809	..	..	..	23,809
Grand total ..	4,12,317	39,720	4,52,037	..	..	..	4,52,037

The construction estimate of the project was closed on 31st March 1891 and the completion report approved in G.O. No. 721 I., dated 15th

VALLUR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 159 of the Administrative Accounts for 1934-35.]

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

VALLUR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	rs.		rs.
Total interest charges to end of 1937-38 ..	1,73,991	Net revenue realized to end of 1937-38 ..	1,49,419
Total interest charges for the year 1938-39— ..	3,346	Net revenue realized during 1938-39 ..	10,602
		Balance, net interest charges ..	38,610
Total ..	1,77,337	Total ..	1,77,337

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.		During the year.	To end of the year.
		rs.	rs.
CAPITAL—			
Leave and pension allowances ..	..	..	1,916
Audit and accounts ..	..	..	..
Total ..	..	..	1,916
REVENUE—			
Leave and pension allowances ..	..	45	2,489
Audit and accounts ..	..	..	525
Total ..	..	45	3,014
Grand Total ..	..	45	4,930

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

VALLUR ANICUT SYSTEM—Canal Project—cont.

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.	Charges to date.	Amount of sanctioned estimate.	
	rs.	rs.			rs.
Direct Charges.					
Works ..	50,550	10,112	..	..	60,662
Establishment ..	11,627	2,052	..	..	13,679
Tools and plant ..	..	25	..	..	25
Suspense account ..	..	..	..	..	..
Total ..	62,177	12,189	..	..	74,366
Less—Receipts on capital account ..	..	..	..	..	..
Not Total ..	62,177	12,189	..	..	74,366
Indirect Charges.					
Capitalized abatement of land revenue ..	1,628	288	..	..	1,916
Leave and pension allowances ..	1,628	288	..	..	1,916
Total ..	3,256	576	..	..	3,832
Grand Total ..	65,433	12,765	..	..	78,198

The construction estimate of the project was closed on 31st March 1893.

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 164 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
I. DIRECT RECEIPTS—	RS.	RS.		RS.	RS.
3. Sales of water	52,536	9,80,626	I. EXTENSIONS AND IMPROVEMENTS—		
4. Water-supply of towns	..	5,65,491	(1) Head works	..	6,704
5. Receipts from plantations	..	2,243	(2) Main canals and branches	115	83,135
6. Receipts from other canal produce	..	5,462	(3) Distributaries	..	3,277
9. Rents of buildings	139	2,601	(4) Drainage and protective works	..	613
10. Fines	..	322	(5) Special tools and plant	..	22
11. Miscellaneous	116	7,345	Total	115	93,751
Recoveries of expenditure	2	101	II. MAINTENANCE AND REPAIRS—		
Defect—Refunds	8	90	(1) Head works	..	61,876
Total, Revenue realized in Public Works Department	52,785	15,64,101	(2) Main canals and branches	15,989	8,93,490
Irrigation revenue realized in Civil Department	13,324	7,38,834	(3) Distributaries	..	3,980
Total, Direct Receipts	39,491	23,02,985	(4) Drainage and protective works	..	3,061
			(5) Special tools and plant	..	..
			Total	15,989	9,62,407
			Total, Extensions and Improvements and Maintenance and Repairs	16,104	10,56,158
			IV. ESTABLISHMENT	2,218	3,16,715
			V. TOOLS AND PLANT	6	9,852
			VI. REFUNDS OF REVENUE	..	88
			Deduct—Recoveries on Revenue account	..	1,065
			Total, Direct Charges	18,328	13,81,748

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—cont.
 No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.		TOTAL.
	During the year.	To end of the year.			To end of the year.
	RS.	RS.			RS.
II. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department			Share of collection charges in the Civil Department		40,631
Total, Public Works and Civil Departments—Revenue			Indirect charges		41,081
			Total, Direct and Indirect Charges		14,63,460
	462	29,959	Deduct—Old maintenance charges saved to Government (a)		3,33,360
	39,923	23,12,944	Net Total		11,30,100
			Balance, Net revenue		12,02,844
Total, Receipts	39,923	23,32,944	Grand Total		23,32,944
				RS.	
(a) Extensions and improvements				3,690	
Maintenance and repairs				200	
Establishment				467	
Tools and plant				1	
Total, Direct Charges				4,268	
Indirect Charges				38	
Total, Direct and Indirect Charges				4,306	

ADMINISTRATIVE ACCOUNTS
 FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—
 cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938	39,57,604	Net revenue realized to end of 1937-1938	11,76,461
Total interest charges for the year 1938-1939	73,299	Net revenue realized during 1938-1939	26,383
		Balance, net interest charges	28,28,059
Total	40,30,903	Total	40,30,903

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue		2,08,120
Leave and pension allowances		31,522
Audit and accounts		412
Total		2,40,054
REVENUE—		
Capitalization of abatement of land revenue		1,095
Leave and pension allowances		36,257
Audit and accounts	161	3,729
Total	161	41,081
Grand total	161	2,81,135

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank project—cont.*

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.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Direct Charges.</i>							
Work ..	12,97,799	95,196	13,92,995	..	..	..	13,92,995
Establishment ..	2,12,547	17,696	2,30,243	..	..	..	2,30,243
Tools and plant ..	6,648	280	6,928	..	..	..	6,928
Suspense account ..	..	..	..	..	..	..	..
Total ..	15,16,994	1,13,172	16,30,166	..	..	..	16,30,166
Less—Receipts on Capital Account.	1,167	135	1,302	..	..	..	1,302
Net total ..	15,15,827	1,13,037	16,28,864	..	..	..	16,28,864
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	2,08,120	..	2,08,120	..	..	..	2,08,120
Leave and pension allowances ..	30,098	1,424	31,522	..	..	..	31,522
Audit and accounts ..	..	412	412	..	..	..	412
Total ..	2,38,218	1,836	2,40,054	..	..	..	2,40,054
Grand total ..	17,54,045	1,14,873	18,68,918	..	..	..	18,68,918

The construction estimate of the project was closed in 1893 and the completion report approved in G.O. No. 153 I., dated 18th February 1895.

PELANDORAI ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 169 of the Administrative Account for 1934-35.]

IRRIGATION BRANCH.

272

PUBLIC WORKS DEPARTMENT

PELANDORAI ANICUT SYSTEM—Canal Project—cont. No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	
	During the year.	To end of the year.	During the year.	To end of the year.
	RS.	RS.	RS.	RS.
I. DIRECT RECEIPTS—				
5. Receipts from plantations ..	833	13,578	I. EXTENSIONS AND IMPROVEMENTS—	
6. Receipts from other canal produce.	51	9,770	(1) Head works ..	439
8. Navigation Receipts ..	..	1	(2) Main canals and branches ..	168
9. Rents of buildings ..	136	2,830	(3) Distributaries ..	377
10. Fines ..	..	982	(4) Drainage and protective works ..	..
11. Miscellaneous ..	..	33	(5) Special tools and plant ..	..
Recoveries of expenditure ..	..	331	Total ..	1,04,030
Deduct—Refunds ..	..	..		
Total, Revenue realized in Public Works Department ..	1,020	26,864	II. MAINTENANCE AND REPAIRS—	
Irrigation Revenue realized in Civil Department ..	15,261	21,27,705	(1) Head works ..	3,500
			(2) Main canals and branches ..	5,195
			(3) Distributaries ..	2,974
			(4) Drainage and protective works ..	..
			(5) Special tools and plant ..	..
			Add—Unclassifiable outlay ..	..
			Total ..	11,669
Total, Direct receipts ..	16,281	21,54,569	Total, Extensions and Improvements and Maintenance and Repairs ..	12,653
			IV. ESTABLISHMENT ..	6,588
			V. TOOLS AND PLANT ..	11
			VI. REFUNDS OF REVENUE ..	..
			Deduct—Recoveries on Revenue account.	..
			Total, Direct Charges.	19,252
				12,29,273

273

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

Share of collection charges in the Civil Department ..	767	1,07,497
Indirect charges ..	127	33,523
Total, Direct and Indirect Charges.	20,146	13,70,263
Deduct—Old maintenance charges saved to Government (a) ..	166	9,889
Balance, Net Revenue ..	19,980	13,60,374
Net total ..	—3,613	8,00,008
Grand total ..	16,367	21,00,382
	RS.	
(a) Direct—		
Extensions and improvements ..	..	59
Maintenance and repairs ..	..	58
Establishment ..	..	48
Tools and plant ..	..	..
Total, Direct Charges ..	165	
Indirect charges ..	1	
Total, Direct and Indirect Charges ..	166	

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

PELANDORAI ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937–1938.	12,19,064	Net revenue realized to end of 1937–1938.	8,03,621
Total interest charges for the year 1938–1939.	28,949	Net revenue realized during 1938–1939.	— 3,613
		Balance, net interest charges.	4,48,005
Total ..	<u>12,48,013</u>	Total ..	<u>12,48,013</u>

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	27,907
Leave and pension allowance ..	..	20,865
Audit and accounts ..	..	..
Total ..	..	<u>48,772</u>
REVENUE—		
Capitalization of abatement of land revenue ..	..	1,069
Leave and pension allowances ..	..	29,024
Audit and accounts ..	127	2,460
Total ..	127	<u>33,523</u>
Grand total ..	127	<u>82,295</u>

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

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.	RS.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		
	RS.	RS.	RS.					
<i>Direct charges.</i>								
Works Establishment ..	3,32,345	1,88,292	5,20,637	..	..	..	5,20,637	
Tools and plant ..	73,999	43,427	1,17,426	..	..	..	1,17,426	
Suspense account ..	4,438	1,699	6,037	..	..	..	6,037	
Total ..	<u>4,10,782</u>	<u>2,33,318</u>	<u>6,44,100</u>	..	..	..	<u>6,44,100</u>	
Less—Receipts on Capital account.	798	..	798	..	..	..	798	
Net total ..	<u>4,09,984</u>	<u>2,33,318</u>	<u>6,43,302</u>	..	..	..	<u>6,43,302</u>	
<i>Indirect charges.</i>								
Capitalized abatement of land revenue ..	27,489	418	27,907	..	..	..	27,907	
Leave and pension allowances ..	14,769	6,096	20,865	..	..	..	20,865	
Audit and accounts ..	..	..	..	..	..	..	..	
Total ..	<u>42,258</u>	<u>6,514</u>	<u>48,772</u>	..	..	..	<u>48,772</u>	
Grand total ..	<u>4,52,242</u>	<u>2,39,832</u>	<u>6,92,074</u>	..	..	..	<u>6,92,074</u>	

The construction estimate of the Project was closed in 1893 and the completion report approved in G.O. No. 155 I., dated 19th February 1894.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

PALAR ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated
	During the year.	To end of the year.	
		RS.	RS.
I. Works—			
(1) Headworks	..	2,10,583	2,10,583
(2) Main canals and branches ..	..	4,37,276	4,37,276
(3) Distributaries	11,801	1,87,035	1,95,313
Old outlay	..	10,26,978	10,26,978
Total, Works ..	11,801	18,61,872	18,70,150
II. Establishment	3,349	4,72,410	4,74,549
III. Tools and plant	12	30,054	30,444
Grand total ..	15,162	23,64,336	23,75,134
V. Less receipts on capital account ..	..	672	672
Net outlay in India and England ..	15,162	23,63,664	23,74,462

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

PALAR ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	Total.		Charges.	Total.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
1. Water rates	..	5	(1) Head works	172	2,14,921
5. Receipts from plantations ..	..	27,581	(2) Main canals and branches ..	489	1,86,455
6. Receipts from other canal produce.	..	47,304	(3) Distributaries	1,308	2,71,538
9. Rents of buildings	..	7,663	(4) Drainage and protective works	..	1,152
10. Fines	..	64	(5) Special tools and plant ..	..	32,342
11. Miscellaneous	..	30,704	Add—Unclassifiable outlay ..	..	7,06,408
Recoveries of expenditure ..	..	630	Total ..	1,969	3,48,790
Deduct—Refunds	..	1,691	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in Public Works Department.	1,723	1,18,260	(1) Head works	4,407	3,48,790
Irrigation Revenue realized in Civil Department.	1,20,498	91,32,255	(2) Main canals and branches ..	4,836	11,59,355
Total, Direct Receipts ..	1,22,221	92,50,515	(3) Distributaries	52,810	16,93,390
II. INDIRECT RECEIPTS—			(4) Drainage and protective works	..	5,742
Share of land revenue collected in the Civil Department.	16,852	12,32,916	(5) Special tools and plant ..	..	99,655
Total, Public Works and Civil Departments, Revenue.	1,39,073	1,04,83,431	Add—Unclassifiable outlay ..	..	33,06,932
			Total ..	62,053	40,13,340
			Total Extensions and Improvements and Maintenance and Repairs.	64,022	10,64,587
			IV. ESTABLISHMENT	19,680	26,800
			V. TOOLS AND PLANT	56	10,393
			VI. REFUNDS OF REVENUE ..	..	19
			Deduct—Recoveries on Revenue Account.	..	61,05,101
			Total, Direct charges ..	83,758	

PALAR ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.
	During the year.	To end of the year.		
	RS.	RS.		
			Share of collection charges in the Civil Department.	
			Indirect charge	640
			Total, Direct and Indirect Charges.	91,215
			* Deduct—Old maintenance charges saved to Government.	3,997
			Net Total	87,218
			Balance, Net Revenue	51,855
			Grand total	1,39,073
Total, Receipts	1,39,073	1,04,83,431		
* Direct—				
Extensions and improvements			RS. 178	
Maintenance and repairs			2,909	
Establishment			876	
Tools and plant			3	
			Total, Direct	3,966
Indirect			31	
			Total, Direct and Indirect	3,997

PALAR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938	54,67,514	Net revenue realized to end of 1937-1938	49,81,303
Total interest charges for the year 1938-1939	1,06,005	Net revenue realized during 1938-1939	51,855
		Balance, net interest charges	5,40,361
Total	55,73,519	Total	55,73,519

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	25,558
Leave and pension allowances	..	91,644
Audit and accounts	118	220
Total	118	1,17,422
REVENUE—		
Capitalization of abatement of land revenue	..	2,638
Leave and pension allowances	..	1,21,432
Audit and accounts	640	13,365
Total	640	1,37,435
Grand Total	758	2,54,857

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

PALAR ANICUT SYSTEM—Canal Project—cont.

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.	
	RS.	RS.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	RS.
<i>Direct charges.</i>						
Works ..	15,22,878	3,27,193	11,801	20,079	8,278	18,61,872
Establishment ..	3,99,070	69,991	3,349	5,479	2,139	4,72,410
Tools and plant ..	29,875	167	12	402	390	30,654
Suspense account ..	..	..	..	..	..	..
Total ..	19,51,823	3,97,351	15,162	25,960	10,798	23,64,336
Less—Receipts on Capital Account.	..	672	..	..	..	672
Net Total ..	19,51,823	3,96,679	15,162	25,960	10,798	23,63,664
<i>Indirect Charges.</i>						
Capitalized abatement of land revenue ..	23,054	2,504	..	..	..	25,558
Leave and pension allowances ..	81,976	9,668	..	201	..	91,644
Audit and accounts ..	..	102	118	..	83	220
Total ..	1,05,030	12,274	118	201	83	1,17,422
Grand Total ..	20,56,853	4,08,953	15,280	26,161	10,881	24,81,086

NOTE.—The construction estimate of the project was closed on 31st March 1896 and completion report approved in G.O. No. 917 I., dated 15th October 1897.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MUNIYERU SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. Works—			
(1) Head works ..	..	70,241	70,241
(2) Main canals and branches ..	725	3,33,411	3,33,899
(3) Distributaries ..	..	67,084	67,084
(6) Special tools and plant ..	..	..	..
Total, Works ..	725	4,70,736	4,71,224
II. Establishment ..	245	1,06,584	1,06,270
III. Tools and plant ..	1	3,748	3,857
V. Less receipts on capital account ..	..	1,732	1,732
Net outlay in India and England ..	971	5,79,336	5,79,619

IRRIGATION BRANCH.

282

MUNIYERU SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	
	During the year.	To end of the year.	During the year.	To end of the year.
	RS.	RS.	RS.	RS.
DIRECT RECEIPTS—				
2. Sale of water	80	80		2,579
5. Receipts from plantations	..	1,577	..	12,568
6. Receipts from other canal produce	776	20,021	..	974
9. Rents of buildings	71	2,385	..	34
11. Miscellaneous	1	4,393	..	..
Recoveries of expenditure	..	6	..	..
Deduct refunds	..	66	..	..
			926	16,155
			1,122	93,969
			2,771	1,33,907
			2,118	36,226
			..	10
			..	..
			..	..
			6,011	2,64,112
			6,937	2,80,367
			3,511	1,00,342
			9	2,089
			..	51
			10,457	3,82,749
Total, Direct Receipt ..	42,089	9,97,600		
Total, Revenue realized in Public Works Department	928	28,396		
Irrigation Revenue realized in Civil Department	41,161	9,69,204		
Total, Direct Receipt ..	42,089	9,97,600		

PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

283

MADRAS PRESIDENCY.

Share of Land Revenue collected in the Civil Department	62	3,181	Subject to collection charges in the Civil Department	2,061	48,616
			Indirect Charges	69	8,972
Total, Public Works and Civil Departments, Revenue	42,151	10,00,781	Total, Direct and Indirect charges ..	12,587	4,40,337
			* Deduct—Old maintenance charges saved to Government	299	7,217
			Total, Direct and Indirect charges ..	12,288	4,33,120
Total Receipts ..	42,151	10,00,781	Balance, net revenue	29,863	5,67,661
			Grand total ..	42,151	10,00,781
* Direct—					
Extensions and improvements	..	..	RS.		
Maintenance and repairs	..	..	..	..	..
Establishment	..	..	..	..	222
Tools and plant	..	..	..	..	75
			..	..	..
Indirect	..	..	Total, Direct ..	297	2
			Total, Direct and Indirect ..	299	..

MUNIYERU SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

Particulars.	Amount. RS.	Amount. RS.
Total interest charges to end of 1937-1938 ..	8,21,164	5,37,798
Total interest charges for the year 1938-1939 ..	26,043	29,863
		2,79,546
Total ..	8,47,207	8,47,207

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	15,104
Leave and pension allowances ..	..	14,631
Audit and accounts ..	7	74
Total ..	7	29,809
REVENUE—		
Capitalization of abatement of land revenue ..	..	34
Leave and pension allowances ..	..	7,547
Audit and accounts ..	69	1,391
Total ..	69	8,972
Grand total ..	76	38,781

MUNIYERU SYSTEM—Canal Project—cont.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Total. RS.	Charges to date. RS.	Amount of sanctioned estimate. RS.	Unspent balance of estimate. RS.	
Direct Charges.							
Works ..	4,63,179	1,617	4,64,796	5,940	6,428	488	4,70,736
Establishment ..	1,03,806	710	1,04,516	2,008	1,764	—	1,06,584
Tools and plant ..	3,713	15	3,728	20	129	109	3,748
Suspense account ..	..	..	..	..	..	..	..
Total ..	5,70,698	2,342	5,73,040	8,028	8,311	283	5,81,068
Less—Receipts on Capital account ..	1,732	..	1,732	..	..	..	1,732
Net Total ..	5,68,966	2,342	5,71,308	8,028	8,311	283	5,79,336
Indirect Charges.							
Capitalized abatement of land revenue ..	15,104	..	15,104	..	..	..	15,104
Leave and pension allowances ..	14,532	99	14,631	..	..	..	14,631
Audit and account ..	..	16	16	58	64	6	74
Total ..	29,636	115	29,751	58	64	6	29,809
Grand total ..	5,98,602	2,457	6,01,059	8,086	8,375	289	6,09,145

The construction estimate of the project was closed in 1901-1902 and the completion report approved in G.O. No. 196-I., dated 14th July 1922.

DONDAPAD TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 190 of the Administrative Accounts for 1934-35.]

NO. 3.—REVENUE ACCOUNT for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year. RS.	To end of the year. RS.			During the year. RS.	To end of the year. RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations	..	165	(1) Head works	..	..	73
6. Receipts from other canal produce.	..	635	(2) Main canals and branches ..	..	..	1,273
II. Miscellaneous	..	256	(3) Distributaries	..	..	..
Total, Revenue realized in Public Works Department	..	1,056	(4) Drainage and productive works ..	..	..	..
Irrigation Revenue realized in Civil Department	1,817	31,824	(5) Special tools and plant	..	..	1,346
Total, Direct Receipts.	1,817	32,880	II. MAINTENANCE AND REPAIRS—			
III. INDIRECT RECEIPTS—			(1) Head works	..	..	7,216
Share of land revenue collected in the Civil Department	10	182	(2) Main canals and branches ..	101	..	149
Total, Public Works and Civil Departments, Revenue	1,827	33,062	(3) Distributaries	..	..	3,813
			(4) Drainage and productive works ..	..	..	..
			(5) Special tools and plant	..	..	..
			Add—Unclassifiable outlay	..	..	..
			Total	101	11,178	..
			Total, Extensions and Improvements and Maintenance and Repairs ..	101	12,524	..
			IV. ESTABLISHMENT	75	4,197	..
			V. TOOLS AND PLANT	..	37	..
			VI. REFUNDS OF REVENUE	..	..	..
			Total, Direct Charges	176	16,758	..
			Share of collection charges in the Civil Department	91	1,596	..
			Indirect charges	1	501	..
			Total, Direct and Indirect Charges ..	268	18,855	..
			Balance, net revenue	1,559	14,207	..
Total, Receipts	1,827	33,062	Grand Total	1,827	33,062	..

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

DONDAPAD TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937–1938 ..	1,96,354	Net revenue realized to end of 1937–1938 ..	12,648
Total interest charges for the year 1938–1939 ..	5,615	Net revenue realized during 1938–1939 ..	1,559
		Balance, net interest charges.	1,87,762
Total ..	2,01,969	Total ..	2,01,969

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.		During the year. RS.	To end of the year. RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	..	..	12,566
Leave and pension allowances	..	..	2,652
Total ..	..	..	15,218
REVENUE—			
Leave and pension allowances	..	..	482
Audit and accounts	..	1	19
Total ..	..	1	501
Grand Total ..	..	1	15,719

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

DONDAPAD TANK—*Tank Project*—cont.
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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Total. RS.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
Direct Charges.							
Works Establishment	96,521	9,327	1,05,848	..	..	..	1,05,848
Tools and plant	17,017	1,928	18,945	..	..	..	18,945
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.							
Capitalized abatement of land revenue	12,062	504	12,566	..	..	..	12,566
Leave and pension allowances	2,362	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

The construction estimate of the project was closed on 31st March 1939 and the completion report approved in G.O. No. 61-I., dated 6th Feb. 1914.

YERUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 194 of the Administrative Accounts for 1934-35.]

3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year.	To end of the year.	During the year.	To end of the year.	During the year.	To end of the year.
	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—			
6. Receipts from other canal produce	..	..	(1) Head works	..	..	235
9. Rents of buildings	..	..	(2) Main canals and branches	..	..	..
11. Miscellaneous	..	..	(3) Distributaries	..	..	..
			(4) Drainage and protective works	..	..	..
			(5) Special tools and plant	..	..	..
			Total	..	..	235
Total, Revenue realized in Public Works Department	..	..	II. MAINTENANCE AND REPAIRS—			
			(1) Head works	..	4,691	22,878
			(2) Main canals and branches	..	..	..
			(3) Distributaries	..	..	..
			(4) Drainage and protective works	..	..	..
			(5) Special tools and plant	..	..	..
			Total	4,691	..	22,878
Irrigation revenue realized in Civil Department	..	57,135	Total, Extensions and Improvements and Maintenance and Repairs	..	4,691	23,113
Total, Direct Receipts	..	57,135	IV. ESTABLISHMENT	..	1,700	7,061
II. INDIRECT RECEIPTS—			V. TOOLS AND PLANT	..	6	99
Share of land revenue collected in the Civil Department	86	1,839	VI. REFUNDS OF REVENUE	..	..	..
			Total, Direct Charges	6,397	30,273	..
Total, Public Works and Civil Departments, Revenue	..	58,974	Share of collection charges in the Civil Department	70	2,950	..
			Indirect Charges	47	485	..
			Total, Direct and Indirect Charges	6,374	33,708	..
			Balance, net revenue	7,785	2,266	..
Total, Receipts	..	58,974	Grand Total	..	1,411	58,974

YERUR TANK—Tank Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount RS.		Amount RS.
Total interest charges to end of 1937-1938 ..	70,239	Net revenue realized to end of 1937-1938 ..	33,051
Total interest charges for the year 1938-1939 ..	2,778	Net revenue realized during 1938-1939 ..	— 7,785
		Balance, net interest charges ..	47,751
Total ..	73,017	Total ..	73,017

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Leave and pension allowances ..	..	1,612
Total ..	..	1,612
REVENUE—		
Leave and pension allowances ..	..	387
Audit and accounts ..	47	98
Total ..	47	485
Grand Total ..	47	2,097

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

YERUR TANK—Tank Project—cont.

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.	Charges to date.	Amount of sanctioned estimate.	
Direct Charges.	RS.	RS.			RS.
Works ..	..	..	..	..	50,219
Establishment ..	48,303	1,916	..	..	11,522
Tools and plant ..	11,110	412	..	..	..
Suspense account ..	..	..	..	..	..
Total ..	59,413	2,328	..	..	61,741
Less—Receipts on capital account.	..	..	..	..	..
Net Total ..	59,413	2,328	..	..	61,741
Indirect Charges.					
Capitalized abatement of land revenue ..	..	..	..	..	..
Leave and pension allowances ..	1,555	57	..	..	1,612
Total ..	1,555	57	..	..	1,612
Grand Total ..	60,968	2,385	..	..	63,353

The construction estimate of the project was closed on 31st March 1907 and the completion report approved in G.O. No. 322 L., dated 16th October 1911.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SAGILERU SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 198 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

SAGILERU SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year.	To end of the year.	During the year.	To end of the year.	During the year.	To end of the year.
	RS.	RS.		RS.	RS.	RS.
1. DIRECT RECEIPTS—						
5. Receipts from plantations ..	..	53		..	..	1,180
6. Receipts from other canal produce ..	9	316		..	..	9,403
9. Rents of buildings ..	38	1,255		..	..	693
Recoveries of expenditure ..	..	31		..	..	..
11. Miscellaneous and other receipts.	4	175		..	..	..
Total, Revenue realized in Public Works Department ..	51	1,830		Total ..	..	11,276
Irrigation Revenue realized in Civil Department ..	1,507	88,570				
				II. MAINTENANCE AND REPAIRS—		
				(1) Head works ..	1,228	14,524
				(2) Main canals and branches ..	3,377	1,14,818
				(3) Distributaries ..	..	5,590
				(4) Drainage and protective works ..	..	..
				(7) Special tools and plant ..	..	..
				Total ..	4,605	1,34,932
				Total, Extensions and Improvements and Maintenance and Repairs ..	4,605	1,46,208
				IV. ESTABLISHMENT ..	2,976	42,744
				V. TOOLS AND PLANT ..	5	570
				VI. REFUNDS OF REVENUE ..	..	..
				Total, Direct Charges ..	7,586	1,89,522
Total, Direct Receipts ..	1,558	90,400				

SAGILERU SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.	TOTAL.
	During the year.	To end of the year.		To end of the year.
	RS.	RS.		RS.
II. INDIRECT RECEIPTS—				
Share of land revenue collected in the Civil Department	26	450	Share of collection charges in the Civil Department	77
			Indirect charges	46
Total, Public Works and Civil Departments, Revenue	1,584	90,850	Total, Direct and Indirect Charges	7,709
Not deficit, if any	2,520	35,628	* Deduct old maintenance charges saved to Government	3,605
			Balance, Net revenue	4,104
Total	4,104	1,26,478	Grand Total	4,104
				1,26,478

	RS.
* Direct—	
Extensions and Improvements	500
Maintenance and Repairs	1,685
Establishment	1,396
Tools and Plant	2
Total, Direct	3,583
Indirect	22
Total, Direct and Indirect	3,605

SAGILERU SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938	6,72,450	Net revenue realized to end of 1937-1938	— 33,108
Total interest charges for the year 1938-1939	20,120	Net revenue realized during 1938-1939	— 2,520
		Balance, net interest charges	7,28,198
Total	6,92,570	Total	6,92,570

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	6,372
Leave and pension allowances	..	11,247
Total	..	17,619
REVENUE—		
Leave and pension allowances	..	3,540
Audit and accounts	46	785
Total	46	4,325
Grand Total	46	21,944

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SAGILERU SYSTEM—Canal Project—cont.

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.
	RS.		RS.			RS.
<i>Direct Charges.</i>						
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
<i>Indirect Charges.</i>						
Capitalized 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

The construction estimate of the project was closed on 31st March 1907 and the completion report approved in G.O. No. 193 I, dated 31st March 1913.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

ATMAKUR TANK—Tank Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 203 of the Administrative Accounts for 1934-35.]

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

ATMAKUR TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.
	During the year. RS.	To end of the year. RS.	
I. DIRECT RECEIPTS—			
(3) Sale of water ..	..	766	
(4) Water-supply of towns ..	..	1,250	
(5) Receipts from plantations ..	..	..	
(6) Receipts from other small produce ..	..	..	
(8) Navigation receipts ..	..	..	
(9) Rents of buildings ..	..	..	
(10) Fines ..	..	2,016	
(11) Miscellaneous ..	..	..	
Total, Revenue realized in the Public Works Department ..	..	7,495	
Revenue realized in Civil Department ..	..	3,173	
Total, Direct Receipts ..	..	4,268	
II. INDIRECT RECEIPTS—			
Share of Land Revenue collected in the Civil Department ..	..	..	
Total, Public Works and Civil Departments—Revenue ..	..	..	
Total, Receipts ..	..	..	
	1,608	14,936	
	1,608	16,952	
	..	7,203	
	..	76	
	..	100	
	1,608	24,131	
	..	2,881	
	..	672	
	..	27,684	
	..	30,000	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

ATMAKUR TANK—Tank Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	1,26,944	Net revenue realized to end of 1937-1938 ..	29,769
Total interest charges for the year 1938-1939 ..	5,038	Net revenue realized during 1938-1939 ..	231
		Balance, net interest charges ..	1,01,982
Total ..	1,31,982	Total ..	1,31,982

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	10,802
Leave and pension allowances ..	..	2,626
Audit ..	..	16
Total ..	..	13,444
REVENUE—		
Leave and pension allowances ..	..	551
Audit and accounts ..	..	121
Total ..	9	672
Grand total ..	9	14,116

ATMAKUR TANK—*Tank Project*—cont.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Total. RS.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.
<i>Direct Charges.</i>						
Works ..	91,202	1,563	92,765	..	..	92,765
Establishment ..	18,749	442	19,191	..	..	19,191
Tools and plant ..	..	3	3	..	..	3
Suspense account ..	..	..	..	..	..	..
Total ..	1,09,951	2,008	1,11,959	..	..	1,11,959
<i>Less—Receipts on Capital account..</i>	..	..	..	..	..	..
Net Total ..	1,09,951	2,008	1,11,959	..	..	1,11,959
<i>Indirect Charges.</i>						
Capitalized abatement of land revenue ..	10,802	..	10,802	..	..	10,802
Leave and pension allowances ..	2,626	..	2,626	..	..	2,626
Audit and accounts ..	..	16	16	..	..	16
Total ..	13,428	16	13,444	..	..	13,444
Grand total ..	1,23,379	2,024	1,25,403	..	..	1,25,403

The construction estimate of the project was closed on 31st August 1907 and the completion report approved in G.O. No. 74-L, dated 13th February 1914.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

JANGAMAHESWARAPURAM TANK—*Tank Project*.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 207 of the Administrative Accounts for 1934-35.]

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

JANGAMAHEWARAPURAM TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations	..	2	(1) Head works	..	177
6. Receipts from other canal produce.	..	1,374	(2) Main canal and branches ..	..	32
			(3) Distributaries	487	1,074
			(4) Drainage and protective works ..	..	..
			(5) Special tools and plant ..	..	..
			Total ..	487	1,283
II. MISCELLANEOUS	..	14	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in Public Works Department	..	1,390	(1) Head works	..	2,775
			(2) Main canals and branches ..	..	352
			(3) Distributaries	247	3,678
			(4) Drainage and protective works ..	..	467
			(5) Special tools and plant ..	..	..
Irrigation revenue realized in Civil Department	360	22,828	Add—Unclassifiable outlay ..	..	..
			Total ..	247	7,272
Total, Direct Receipts ..	360	24,218	Total, Extensions and Improvements and Maintenance and Repairs.	734	8,555
II. INDIRECT RECEIPTS—			IV. ESTABLISHMENT	270	3,607
Share of land revenue collected in the Civil Department	..	24,218	V. TOOLS AND PLANT	1	3
Total Public Works and Civil Departments—Revenue	360	..	VI. REFUNDS OF REVENUE	..	..
			Total, Direct Charges ..	1,005	12,159
			Share of collection charges in the Civil Department	18	1,138
			Indirect charge	7	359
			Total, Direct and Indirect Charges.	1,030	13,656
			Balance, net revenue	670	10,562
			Grand total ..	360	24,218

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

JANGAMAHEWARAPURAM TANK—Tank Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938 ..	72,278	Net revenue realized to end of 1937-1938 ..	11,232
Total interest charges for the year 1938-1939 ..	2,756	Net revenue realized during 1938-1939 ..	— 670
		Balance, net interest charges ..	64,472
Total ..	75,034		

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	9,194
Leave and pension allowances ..	..	1,217
Total ..	..	10,411
REVENUE—		
Leave and pension allowances ..	..	317
Audit and accounts ..	7	42
Total ..	7	359
Grand total ..	7	10,770

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

JANGAMAHESWARAPURAM TANK—*Tank Project*—cont.
No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTION.			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.	
	rs.	rs.	rs.				rs.
<i>Direct Charges.</i>							
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
<i>Less—Receipts on Capital account.</i>	..	..	..	..	..	..	..
Net total ..	59,332	1,921	61,253	..	..	..	61,253
<i>Indirect Charges.</i>							
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

The construction estimate of the project was closed on 31st March 1908 and the completion report approved in G.O. No. 229-I., dated 23rd ..

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 211 of the Administrative Accounts for 1934-35.]

IRRIGATION BRANCH.

308

PUBLIC WORKS DEPARTMENT.

ANAMASAMUDRAM-BERAPERU TANK—Tank Project—cont. No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.
	During the year. rs.	To end of the year. rs.	
I. Direct Receipts—			
6. Receipts from other canal produce.	..	..	Total ..
9. Rents of buildings	..	..	
II. Miscellaneous	..	..	
Total, Revenue realized in Public Works Department.	..	..	
Irrigation revenue realized in Civil Department ..	— 3,727	— 4,828	
Total, Direct Receipts ..	— 3,727	— 4,796	
II. Indirect Receipts—			
Share of land revenue collected in the Civil Department ..	1	31	

I. EXTENSIONS AND IMPROVEMENTS—			
(1) Head works ..	..	..	388
(2) Main canals and branches ..	..	..	..
(3) Distributaries ..	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Total ..	..	..	388
II. MAINTENANCE AND REPAIRS—			
(1) Head works ..	..	..	614
(2) Main canal and branches ..	..	..	..
(3) Distributaries ..	..	..	..
(4) Drainage and protective works ..	..	..	..
(5) Special tools and plant ..	..	..	..
Add—Unclassifiable outlay ..	..	..	..
Total ..	614	13,047	
Total, Extensions and Improvements and Maintenance and Repairs ..	614	13,435	
IV. ESTABLISHMENT ..	215	3,882	
V. TOOLS AND PLANT ..	1	51	
V. REFUNDS OF REVENUE ..	..	..	
Total, Direct Charges ..	830	17,368	
Share of collection charges in the Civil Department ..	— 186	— 237	
Indirect charges ..	6	231	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1938-1939.

309

MADRAS PRESIDENCY.

Net deficit, if any ..	..	..	..
Total ..	3,516	2,393	..
..	— 210	— 2,372	..
* Direct—			
Extensions and improvements ..	..	..	rs. 28
Maintenance and repairs ..	..	..	612
Establishment ..	..	..	213
Tools and plant ..	..	..	1
Indirect ..	..	..	854
..	..	..	6
Total, Direct ..	..	..	860
Total, Direct and Indirect ..	..	..	..
* Deduct—			
Total, Direct and Indirect Charges ..	650	17,352	
Old maintenance charges saved to Government ..	860	19,724	
Net Total ..	— 210	— 2,372	
Grand Total ..	— 210	— 2,372	

Share of collection charges in the Civil Department ..	..	..	..
Indirect charges ..	..	..	..
Total, Direct and Indirect Charges ..	..	..	..
* Deduct—			
Old maintenance charges saved to Government ..	..	..	..
Net Total ..	..	..	..
Grand Total ..	..	..	..
Total, Direct ..	..	..	..
Total, Direct and Indirect ..	..	..	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	75,903	Net revenue realized to end of 1937-1938 ..	1,123
Total interest charges for the year 1938-1939 ..	3,226	Net revenue realized during 1938-1939 ..	— 3,516
		Balance, net interest charges ..	81,522
Total ..	79,129	Total ..	79,129

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.		During the year. RS.	To end of the year. RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	..	..	30
Leave and pension allowances ..	..	..	1,856
Total ..	..	..	1,886
REVENUE—			
Leave and pension allowances ..	..	..	115
Audit and Accounts ..	..	6	106
Total ..	..	6	221
Grand Total ..	..	6	2,107

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project*—cont.
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. RS.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
<i>Direct Charges.</i>	RS.	RS.	RS.				
Works Establishment ..	52,139	6,282	58,421	..	..	..	58,421
Tools and plant ..	11,915	1,351	13,266	..	..	..	13,266
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
<i>Indirect Charges.</i>							
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

The construction estimate of the project was closed on 31st March 1910 and the completion report approved in G.O. No. 90 I., dated 5th March 1912.

HAJIPURAM TANK—Tank Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 216 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

No. 3.—Revenue Account for and to end of 1938-1939.			
Receipts.	TOTAL.		Charges.
	During the year. RS.	To end of the year. RS.	
I. DIRECT RECEIPTS—			
6. Receipts from other canal produce.	..	101	
II. Miscellaneous	..	11,890	
			Total ..
			1,388
Total, Revenue realized in Public Works Department			
	..	11,991	
Irrigation Revenue realized in Civil Department	3,325	72,487	
			Total, Direct Receipts ..
	3,325	84,478	
II. INDIRECT RECEIPTS—			
Share of land revenue collected in the Civil Department ..	70	656	
Total, Public Works and Civil Departments, Revenue	3,395	85,134	
			Total, Direct Charges ..
	3,395	85,134	
Share of collection charges in the Civil Department			
	..	..	169
Indirect charges	..	..	3
			Total, Direct and Indirect Charges ..
			689
			Balance, Not revenue ..
			2,706
			Grand Total ..
			3,395
			10,320
			11,708
			4,993
			71
			16,772
			3,654
			379
			20,805
			64,329
			85,134

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

HAJIPURAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	3,09,202	Net revenue realized to end of 1937-1938 ..	61,623
Total interest charges for the year 1938-1939 ..	12,545	Net revenue realized during 1938-1939 ..	2,706
		Balance, net interest charges ..	2,57,418
Total ..	3,21,747	Total ..	3,21,747

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	26,346
Leave and pension allowances ..	..	6,763
Total ..	..	33,109
REVENUE—		
Capitalization of abatement of land revenue ..	..	105
Leave and pension allowances ..	..	171
Audit and accounts ..	3	103
Total ..	3	379
Grand Total ..	3	33,488

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

HAJIPURAM TANK—*Tank Project*—cont.

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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Total. RS.	Charges to date. RS.	Amount of sanctioned estimate. RS.	Unspent balance of estimate. 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

The construction estimate of the project was closed on 31st March 1911 and the completion report approved in G. O. No. 31 L, dated 25th January 1912.

PONNALUR TANK—Tank Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 220 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
I. DIRECT RECEIPTS—	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.
5. Receipts from plantations	..	..	(1) Head works	..	10,471
6. Receipts from other canal produce	..	..	(2) Main canals and branches	..	..
11. Miscellaneous	..	176	(3) Distributaries	..	..
Recoveries of expenditure	..	1	(4) Drainage and protective works	..	..
Deduct—Refunds	..	22	(5) Special tools and plant	..	..
Total, Revenue realized in Public Works Department	..	155	Total	..	10,471
Irrigation revenue realized in Civil Department	3,723	1,27,536	II. MAINTENANCE AND REPAIRS—	1,001	75,478
Total, Direct Receipts.	3,723	1,27,691	(1) Head works	..	18,071
II. INDIRECT RECEIPTS—	..	..	(2) Main canals and branches	..	..
Share of land revenue collected in the Civil Department	..	..	(3) Distributaries	..	..
Total, Public Works and Civil Departments, Revenue	3,723	1,27,691	(4) Drainage and protective works	..	..
Net deficit, if any	2,082	14,943	(5) Special tools and plant	..	..
			Add—Unclassifiable outlay	..	..
			Total	1,001	93,549
			Total, Extensions and Improvements and Maintenance and Repairs	1,001	1,04,920
			IV. ESTABLISHMENT	443	29,264
			V. TOOLS AND PLANT	1	282
			VI. REFUNDS OF REVENUE	..	..
			Total, Direct Charges	1,445	1,33,566
			Share of collection charges in the Civil Department	186	6,380
			Indirect charges	10	2,688
			Total, District and Indirect Charges	1,641	1,42,634
			Balance, net revenue.	..	..
Total	1,641	1,42,634	Grand Total	1,641	1,42,634

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

PONNALUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937–1938 ..	2,19,697	Net revenue realized to end of 1937–1938 ..	— 17,025
Total interest charges for the year 1938–1939 ..	8,684	Net revenue realized during 1938–1939 ..	2,082
		Balance, net interest charges ..	2,43,324
Total ..	2,28,381	Total ..	2,28,381

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	21,230
Leave and pension allowances ..	..	4,431
Audit and accounts ..	..	13
Total ..	..	25,674
REVENUE—		
Leave and pension allowances ..	..	2,186
Audit and accounts ..	10	502
Total ..	10	2,688
Grand total ..	10	28,362

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

PONNALUR TANK—*Tank Project*—cont.
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.	
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.
Works Establishment ..	1,39,349	21,914	1,61,263	..	..	..	1,61,263
Tools and plant ..	27,013	4,645	31,658	..	..	..	31,658
Suspense account ..	..	54	54	..	..	..	54
Total ..	1,66,362	26,613	1,92,975	..	..	..	1,92,975
Less—Receipts on Capital account.	..	..	..	..	..	..	..
Net Total ..	1,66,362	26,613	1,92,975	..	..	..	1,92,975
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	21,230	..	21,230	..	..	..	21,230
Leave and pension allowances ..	3,781	650	4,431	..	..	..	4,431
Audit and accounts ..	..	13	13	..	..	..	13
Total ..	25,011	663	25,674	..	..	..	25,674
Grand Total ..	1,91,373	27,276	2,18,649	..	..	..	2,18,649

The construction estimate of the project was closed on 31st March 1911 and the completion report approved in G.O. No. 292 I., dated 18th September 1911.

MARKAPUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 224 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.MARKAPUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. Direct Receipts—			I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations ..	..	.. 95	(1) Head works ..	..	872
6. Receipts from other canal produce.	..	311	(2) Main canals and branches ..	363	7,464
11. Miscellaneous ..	..	..	(3) Distributaries ..	..	120
			(4) Drainage and protective works ..	..	..
Total, Revenue realized in Public Works Department ..	..	406	(5) Special tools and plant ..	..	..
Irrigation Revenue realized in Civil Department ..	5,608	1,28,102	Total ..	363	8,450
			II. MAINTENANCE AND REPAIRS—		
			(1) Head works ..	635	31,180
			(2) Main canals and branches ..	1,850	35,041
			(3) Distributaries ..	..	2,425
			(4) Drainage and protective works ..	..	..
			(5) Special tools and plant ..	..	..
			Total ..	2,485	68,646
			Total, Extensions and Improvements and Maintenance and Repairs ..	2,848	77,102
			IV. ESTABLISHMENT ..	1,944	24,823
			V. TOOLS AND PLANT ..	3	265
			VI. REFUNDS OF REVENUE ..	..	..
Total, Direct Receipts ..	5,608	1,28,508	Total, Direct Charges ..	4,795	1,02,190

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MARKAPUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1938-1939—cont.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year.	To end of the year.	During the year.	To end of the year.	During the year.	To end of the year.
	RS.	RS.	RS.	RS.	RS.	RS.
I. INDIRECT RECEIPTS—						
Share of land revenue collected in the Civil Department	1	27	Share of collection charges in the Civil Department	281	6,405	
			Indirect charges	29	2,095	
			Total, Direct and Indirect Charges ..	5,105	1,10,690	
Total, Public Works and Civil Departments, Revenue ..	5,609	1,28,535	Deduct—Old maintenance charges saved to Government * ..	460	7,956	
			Net Total	4,705	1,02,734	
			Balance, net revenue	904	25,801	
Total, Receipts ..	5,609	1,28,535	Grand Total	5,609	1,28,535	
* Direct—						
Extensions and improvements ..						
Maintenance and repairs ..						
Establishment ..						
Tools and plant ..						
Indirect ..			Total, Direct ..	397	3	
			Total, Direct and Indirect ..		400	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MARKAPUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937-1938 ..	1,23,732	Net revenue realized to end of 1937-1938	24,897
Total interest charges for the year 1938-1939 ..	5,602	Net revenue realized during 1938-1939	904
		Balance, net interest charges	1,03,533
Total ..	1,29,334	Total ..	1,29,334

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	1,595
Leave and pension allowances	..	3,206
Audit and accounts	..	58
Total ..	..	4,859
REVENUE—		
Capitalization of abatement of land revenue ..	..	19
Leave and pension allowances	..	1,484
Audit and accounts	29	592
Total ..	29	2,095
Grand Total ..	29	6,954

MARKAPUR TANK—Tank Project—cont.

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.	rs.	Expenditure against open canal sanction.	rs.	
<i>Direct Charges.</i>					
Works ..	94,107		7,267		1,01,374
Establishment ..	20,846		2,220		23,066
Tools and plant ..	..		41		41
Suspense account ..	..		..		..
Total ..	1,14,953		9,528		1,24,481
Less—Receipts on Capital account.	..		..		..
Net Total ..	1,14,953		9,528		1,24,481
<i>Indirect Charges.</i>					
Capitalized abatement of land revenue ..	..		1,595		1,595
Leave and pension allowances ..	2,918		288		3,206
Audit and accounts ..	..		58		58
Total ..	2,918		1,941		4,859
Grand Total ..	1,17,871		11,469		1,29,340

The construction estimate of the project was closed on 31st March 1911 and the completion report approved in G.O. No. 289 I., dated 1st August 1912.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

NAGAVALLI RIVER SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. WORKS—			
(1) Head works ..	..	4,71,344	4,71,344
(2) Main canals and branches ..	..	5,90,179	5,90,179
(3) Distributaries ..	3,425	2,71,277	2,74,383
(6) Special tools and plant ..	..	..	..
Maintenance during construction.	..	16,500	16,500
Total, Works ..	3,425	13,49,300	13,52,406
II. ESTABLISHMENT ..	1,285	2,82,771	2,78,902
III. TOOLS AND PLANT ..	39	93,502	93,849
V. LESS RECEIPTS ON CAPITAL ACCOUNT.	..	5,308	5,308
Net outlay in India and England ..	4,749	17,20,265	17,19,849

NAGAVALLI RIVER SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
I. DIRECT RECEIPTS—	RS.	RS.		RS.	RS.
5. Receipts from plantations ..	22	192	I. EXTENSIONS AND IMPROVEMENTS—		
6. Receipts from other canal pro- duco ..	400	9,513	(1) Head works ..	..	2,762
8. Navigation ..	6	7	(2) Main canals and branches ..	9	26,444
9. Rents of buildings ..	60	2,898	(3) Distributaries ..	..	16,283
10. Fines ..	84	84	(4) Drainage and protective works.	..	..
11. Miscellaneous ..	..	4,835	(5) Special tools and plant ..	..	..
Recoveries of expenditure ..	450	702	Total ..	9	45,489
Deduct—Refunds ..	..	131			
Total, Revenue realized in Public Works Department ..	1,022	18,100	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department ..	57,921	16,86,396	(1) Head works ..	2,959	1,18,668
			(2) Main canals and branches ..	10,703	2,58,077
			(3) Distributaries ..	1,823	64,199
			(4) Drainage and protective works.	..	390
			(5) Special tools and plant ..	..	..
			Add—Unclassifiable outlay ..	..	..
			Total ..	15,485	4,41,334
			Total, Extensions and Improvements and Maintenance and Repairs ..	15,494	4,86,823
			IV. ESTABLISHMENT ..	8,044	2,26,451
			V. TOOLS AND PLANT ..	176	6,550
			VI. REFUNDS OF REVENUE ..	..	281
			Total, Direct Charges ..	23,714	7,20,105
Total, Direct Receipts ..	58,943	17,04,496			

327

ADMINISTRATIVE ACCOUNTS

FOR THE YEAR 1938-1939.

II. INDIRECT RECEIPTS—		Share of collection charges in the Civil	
Shares of land revenue collected in—		Department	
the Civil Department		Indirect charges	
Total, Public Works and Civil Departments, Revenue		Total, Direct and Indirect Charges.	
.. ..		Deduct—Old maintenance charges saved to Government *	
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			
.. ..			

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

NAGAVALLI RIVER SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	16,86,275	Net revenue realized to end of 1937-1938 ..	12,84,123
Total interest charges for the year 1938-1939 ..	77,286	Net revenue realized during 1938-1939 ..	57,502
		Balance net interest charges ..	4,21,936
Total ..	17,63,561	Total ..	17,63,561

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	6,110
Leave and pension allowances	..	37,815
Audit and accounts	34	443
Total ..	34	44,368
REVENUE—		
Capitalization of abatement of land revenue ..	..	15,600
Leave and pension allowances	155	3,159
Audit and accounts	..	..
Total ..	155	18,759
Grand total ..	189	63,127

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

NAGAVALLI RIVER SYSTEM—*Canal Project*—cont.
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.	RS.	RS.
<i>Direct charges.</i>								
Works ..	12,24,720	1,01,089	13,25,809	23,491	26,597	3,106	13,49,300	
Establishment ..	2,42,924	28,811	2,71,735	11,936	7,167	3,869	2,82,771	
Tools and plant ..	93,355	38	93,317	185	532	347	93,602	
Suspense account ..	..	..	..	..	..	..	..	
Total ..	15,60,999	1,29,862	16,90,861	34,712	34,296	416	17,25,573	
Less—Receipts on Capital account ..	1,374	3,934	5,308	..	..	..	5,308	
Net total ..	15,59,625	1,25,928	16,85,553	34,712	34,296	416	17,20,265	
<i>Indirect charges.</i>								
Capitalized abatement of land revenue ..	3,273	2,837	6,110	..	2,195	2,195	6,110	
Leave and pension allowances ..	34,009	3,806	37,815	..	266	..	37,815	
Audit and accounts ..	..	209	209	234	266	32	443	
Total ..	37,282	6,852	44,134	234	2,461	2,227	44,368	
Grand total ..	15,96,907	1,32,780	17,29,687	34,946	36,757	1,811	17,64,633	

The construction estimate of the Project was closed on 31st December 1913 and the completion report approved in G.O. No. 71, I., dated 15th February 1920.

VENKATAPURAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1938–1939.

[Vide details in page 235 of the Administrative Accounts for 1934–35.]

No. 3.—Revenue Account for and to end of 1938–1939.		Charges.		TOTAL.	
Receipts.	During the year. RS.	To end of the year. RS.	During the year. RS.	To end of the year. RS.	TOTAL.
I. DIRECT RECEIPTS—					
6. Receipts from other canal produce.	..	..	..	..	..
9. Rents of buildings ..	..	..	..	..	..
11. Miscellaneous ..	..	..	..	..	..
Total, Revenue realized in Public Works Department.	..	..	..	..	..
Irrigation Revenue realized in Civil Department.	1,274	15,230	..	..	..
Total, Direct Receipts ..	1,274	15,230	..	..	..
II. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department.	38	304	..	..	..
Total, Public Works and Civil Departments, Revenue.	1,312	15,534	..	..	..
Net deficit, if any ..	— 563	435	..	..	..
Total ..	749	15,969	..	..	..
I. EXTENSIONS AND IMPROVEMENTS—					
(1) Head works ..	..	..	..	..	..
(2) Main canals and branches ..	..	..	..	..	..
(3) Distributaries ..	..	..	..	..	..
(4) Drainage and protective works.	..	..	..	..	..
Total ..	..	..	..	..	..
II. MAINTENANCE AND REPAIRS—					
(1) Head works ..	..	..	..	..	..
(2) Main canals and branches ..	..	..	..	..	..
(3) Distributaries ..	..	..	..	..	..
(4) Drainage and protective works.	..	..	..	..	..
Total ..	..	..	..	..	..
Total, Extensions and Improvements and Maintenance and Repairs.	..	..	..	..	..
IV. ESTABLISHMENT ..	..	..	..	..	..
V. TOOLS AND PLANT ..	..	..	..	..	..
VI. REFUNDS OF REVENUE ..	..	..	..	..	..
Total, Direct Charges ..	..	..	..	..	..
Share of collection charges in the Civil Department.	..	..	..	..	..
Indirect Charges ..	..	..	..	..	..
Total, Direct and Indirect Charges.	..	..	..	..	..
Balance, net revenue ..	..	..	..	..	..
Grand total ..	..	..	..	..	..

IRRIGATION BRANCH.

332

PUBLIC WORKS DEPARTMENT

VENKATAPURAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	3,33,122	Net revenue realized to end of 1937-1938 ..	— 993
Total interest charges for the year 1938-1939 ..	16,751	Net revenue realized during 1938-1939 ..	563
		Balance, net interest charges ..	3,50,309
Total ..	3,49,873	Total ..	3,49,873

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	3,635
Leave and pension allowances ..	..	9,034
Audit and accounts ..	..	2
Total ..	..	12,671
REVENUE—		
Capitalization of abatement of land revenue ..	..	343
Leave and pension allowances ..	..	91
Audit and accounts ..	4	
Total ..	4	434
Grand total ..	4	13,105

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

333

MADRAS PRESIDENCY.

VENKATAPURAM TANK—*Tank Project*—cont.

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

Particulars.	CHARGES AGAINST CLOSED SANCTION.			CURRENT SANCTION.			Total charges to date against old and current sanctions. RS.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges of date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
<i>Direct Charges.</i>	RS.	RS.	RS.				
Works Establishment ..	3,00,808	3,186	3,03,994	..	..	..	3,03,994
Tools and plant ..	62,353	2,186	64,539	..	..	..	64,539
Suspense account ..	4,205	31	4,236	..	..	..	4,236
Total ..	3,67,366	5,403	3,72,769	..	..	..	3,72,769
Less—Receipts on Capital Account.	519	..	519	..	..	..	519
Net Total ..	3,66,847	5,403	3,72,250	..	..	..	3,72,250
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue.	3,627	8	3,635	..	..	..	3,635
Leave and pension allowances ..	8,728	306	9,034	..	..	..	9,034
Audit and accounts ..	..	2	2	..	..	..	2
Total ..	12,355	316	12,671	..	..	..	12,671
Grand Total ..	3,79,202	5,719	3,84,921	..	..	..	3,84,921

The construction estimate of the project was closed on 31st March 1918 and the completion report approved in G.O. No. 92, I., dated 11th March 1920.

[Vide details on page 239 of the Administrative Accounts
for 1934-35.]

[illegible]

BHAVANASI TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937–1938 ..	2,20,568	Net revenue realized to end of 1937–1938 ..	6,710
Total interest charges for the year 1938–1939 ..	11,448	Net revenue realized during 1938–1939 ..	3,455
		Balance, net interest charges	2,21,851
Total ..	<u>2,32,016</u>	Total ..	<u>2,32,016</u>

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	5,027
Leave and pension allowances	..	6,034
Audit and accounts	..	35
Total ..	..	<u>11,096</u>
REVENUE—		
Capitalization of abatement of land revenue	..	1,282
Leave and pension allowances	..	471
Audit and accounts	10	
Total ..	10	<u>1,753</u>
Grand Total ..	10	<u>12,849</u>

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. RS.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
<i>Direct Charges.</i>	RS.	RS.	RS.				
Works	1,82,434	3,445	1,85,879	..	..	..	1,85,879
Establishment	41,653	1,450	43,103	..	..	..	43,103
Tools and plant	25,000	50	25,710	..	..	..	25,710
Suspense account	..	..	..	..	..	..	..
Total	<u>2,49,747</u>	<u>4,945</u>	<u>2,54,692</u>	..	..	..	<u>2,54,692</u>
<i>Less—Receipts on Capital account.</i>	166	131	297	..	..	..	297
Net Total ..	<u>2,49,581</u>	<u>4,814</u>	<u>2,54,395</u>	..	..	..	<u>2,54,395</u>
<i>Indirect Charges.</i>							
Capitalized abatement of land rev. one.	5,027	..	5,027	..	..	..	5,027
Leave and pension allowances	5,831	203	6,034	..	..	..	6,034
Audit and accounts	..	35	35	..	..	..	35
Total	<u>10,858</u>	<u>238</u>	<u>11,096</u>	..	..	..	<u>11,096</u>
Grand Total ..	<u>2,60,439</u>	<u>5,052</u>	<u>2,65,491</u>	..	..	..	<u>2,65,491</u>

The construction estimate of the project was closed on 31st March 1919 and the completion report approved in G.O. No. 138, I., dated 2nd May 1921.

YELLANUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 243 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
I. DIRECT RECEIPTS—	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.
6. Receipts from other canal produce.	..	..	(1) Head works	..	..
Recoveries of expenditure	..	1	(2) Main canals and branches	..	..
9. Rents of buildings	..	..	(3) Distributaries	..	19
11. Miscellaneous	..	..	(4) Drainage and protective works	..	..
Total, Revenue realized in Public Works Department	..	1	(5) Special tools and plant	..	..
Irrigation—Revenue realised in Civil Department	1,943	49,554	Total	..	19
II. INDIRECT RECEIPTS—	1,943	49,555	II. MAINTENANCE AND REPAIRS—	1,538	7,890
Total, Direct Receipts	1,104	13,919	(1) Head works	..	3,840
Share of land revenue collected in the Civil Department	3,047	63,474	(2) Main canals and branches	..	242
Total, Public Works and Civil Departments—Revenue	..	..	(3) Distributaries	..	27
			(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	..
			Total	1,538	11,999
			Total, Extensions and Improvements and Maintenance and Repairs	1,538	12,018
			IV. ESTABLISHMENT	1,086	5,089
			V. TOOLS AND PLANT	2	39
			VI. REFUNDS OF REVENUE	..	..
			Total, Direct Charges	2,606	17,146
			Share of collection charges in the Civil Department	128	2,753
			Indirect charges	16	391
			Total, Direct and Indirect Charges	2,750	20,200
			Balance, not revenue	297	43,274
Total, Receipts	3,047	63,474	Grand Total	3,047	63,474

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

YELLANUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937–1938 ..	2,19,978	Net revenue realized to end of 1937–1938 ..	42,977
Total interest charges for the year 1938–1939 ..	10,764	Net revenue realized during 1938–1939 ..	297
		Balance, net interest charges.	1,87,468
Total ..	2,30,742	Total ..	2,30,742

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	24,753
Leave and pension allowances ..	..	5,762
Total ..	..	30,515
REVENUE—		
Leave and pension allowances ..	..	185
Audit and account ..	16	116
Total ..	16	301
Grand Total ..	16	30,816

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–39.

MADRAS PRESIDENCY.

YELLANUR TANK—*Tank Project*—cont.
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. RS.
	Expenditure against construction estimate. RS.	Expenditure against open canal sanction. RS.	Total. RS.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
<i>Direct Charges.</i>							
Works Establishment ..	1,83,348	7,944	1,91,292	..	..	..	1,91,292
Tools and plant ..	40,150	1,006	41,156	..	..	..	41,156
Suspense account ..	7,072	15	7,087	..	..	..	7,087
Total ..	..	..	..	..	..	..	..
Less—Receipts on Capital account.	2,30,570	8,965	2,39,535	..	..	..	2,39,535
Not Total ..	..	343	343	..	..	..	343
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	24,753	..	24,753	..	..	..	24,753
Leave and pension allowances ..	5,621	141	5,762	..	..	..	5,762
Total ..	30,374	141	30,515	..	..	..	30,515
Grand Total ..	2,60,944	8,763	2,69,707	..	..	..	2,69,707

The construction estimate of the project was closed on 31st March 1919 and the completion report approved in G.O. No. 6-I., dated 7th January 1921.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT

PANJAPATTI RESERVOIR—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 247 of the Administrative Accounts for 1934-35.]

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
I. DIRECT RECEIPTS—	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.
5. Receipts from plantations	..	..	(1) Head works ..	..	1,504
6. Receipts from other canal produce	..	920	(2) Main canals and branches ..	..	..
9. Rents of buildings	..	51	(3) Distributaries ..	..	..
11. Miscellaneous ..	..	108	(4) Drainage and protective works.	..	..
			(5) Special tools and plant ..	..	1,504
			Total ..	..	..
Total, Revenue realized in Public Works Department ..	..	1,979	II. MAINTENANCE AND REPAIRS—	..	4,027
Irrigation revenue realized in Civil Department ..	..	8,393	(1) Head works ..	..	433
			(2) Main canals and branches ..	..	446
			(3) Distributaries ..	..	..
			(4) Drainage and protective works.	..	..
			(5) Special tools and plant ..	..	4,906
			Total ..	..	..
Total, Direct Receipts ..	..	9,472	Total Extensions and Improvements and Maintenance and Repairs ..	..	6,500
II. INDIRECT RECEIPTS—			IV. ESTABLISHMENT ..	..	2,269
Share of land revenue collected in the Civil Department ..	..	4,813	V. TOOLS AND PLANT ..	..	19
			VI. REFUNDS OF REVENUE ..	..	..
Total, Public Works and Civil Department—Revenue ..	..	14,285	Total, Direct Charges ..	..	8,778
Total, Receipts ..	..	14,285	Share of collection charges in the Civil Department ..	..	423
			Indirect charges ..	..	87
			Total, Direct and indirect Charges ..	..	9,288
			Balance, Net revenue ..	..	4,997
			Grand Total ..	..	14,285

MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

PANJAPATTI RESERVOIR—*Tank Project*—cont.

No. 4.—Indirect Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-38 ..	2,77,150	Net revenue realized to end of 1937-38.	4,997
Total interest charges for the year 1938-39 ..	14,750	Net revenue realized during 1938-39.	..
		Balance, net interest charges.	2,86,903
Total ..	2,91,900	Total ..	2,91,900

No. 5.—Accounts of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	5,396
Leave and pension allowances	..	6,077
Audit and accounts	..	22
Total ..	..	11,495
REVENUE—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances	..	23
Audit and account	..	64
Total ..	..	87
Grand Total ..	..	11,582

PANJAPATTI RESERVOIR—*Tank Project*—cont.

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.	Charges to date.	Amount of sanctioned estimate.	
<i>Direct Charges.</i>	RS.	RS.			RS.
Works ..	2,24,998	..	..	..	2,24,998
Establishment ..	43,411	..	..	..	43,411
Tools and plant ..	60,075	..	..	..	60,075
Suspense account ..	..	..	..	..	..
Total ..	3,28,484	..	..	..	3,28,484
Less—Receipts on Capital Account.	703	..	..	..	703
Net Total ..	3,27,781	..	..	..	3,27,781
<i>Direct Charges.</i>					
Capitalized abatement of land revenue ..	5,396	..	..	..	5,396
Leave and pension allowances ..	6,077	..	..	..	6,077
Audit and accounts ..	22	..	..	..	22
Total ..	11,495	..	..	..	11,495
Grand Total ..	3,39,276	..	..	..	3,39,276

The construction estimate of the project was closed on 30th June 1919 and the completion report approved in G.O. No. 1244-I, dated 15th April 1930.

SIDDAPUR TANK—Tank Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 251 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.		TOTAL.	
	During the year.	To end of the year.	During the year.	To end of the year.	During the year.	To end of the year.
	RS.	RS.			RS.	RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations ..	..	..	(1) Head works ..	..	..	.. 264
6. Receipts from other canal produce.	..	..	(2) Main canals and branches ..	..	..	.. 2,582
			(3) Distributaries ..	..	..	..
			(4) Drainage and protective works.	..	..	..
			(5) Special tools and plant ..	..	..	..
11. Miscellaneous ..	..	..	Total ..	..	..	.. 2,846
Total, Revenue realized in Public Works Department ..	..	..	II. MAINTENANCE AND REPAIRS—		737	13,014
Irrigation Revenue realized in Civil Department ..	5,229	47,465	(1) Head works ..	..	..	.. 1,108
Total, Direct Receipts ..	5,229	47,465	(2) Main canals and branches ..	..	..	..
			(3) Distributaries ..	..	..	..
II. INDIRECT RECEIPTS—			(4) Drainage and protective works.	..	..	..
Share of land revenue collected in the Civil Department ..	..	..	(5) Special tools and plant ..	..	..	..
Total, Public Works and Civil Departments, Revenue ..	5,229	47,465	Total ..	737	14,722	17,568
			Total, Extensions and Improvements and Maintenance and Repairs ..	737	17,568	6,886
			IV ESTABLISHMENT ..	552	6,886	90
			V TOOLS AND PLANT ..	1	..	..
			VI REFUNDS OF REVENUE ..	..	..	..
			Total, Direct Charges ..	1,290	24,544	2,374
			Share of collection charges in the Civil Department ..	261	629	27,547
			Indirect Charges ..	7	19,916	47,465
			Total, Direct and Indirect Charges.	1,558	..	..
			Balance, net revenue ..	3,671	..	..
Total ..	5,229	47,465	Grand Total ..	5,229	..	..

SIDDAPUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. rs.		Amount rs.
Total interest charges to end of 1937-1938 ..	6,64,144	Net revenue realized to end of 1937-1938 ..	16,247
Total interest charges for the year 1938-1939 ..	35,597	Net revenue realized during 1938-1939 ..	3,671
		Balance, net interest charges ..	6,79,823
Total ..	<u>6,99,741</u>	Total ..	<u>6,99,741</u>

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. rs.	To end of the year. rs.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances ..	..	13,475
Audit and accounts ..	..	27
Total ..	..	<u>13,448</u>
REVENUE—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances ..	..	466
Audit and accounts ..	7	163
Total ..	<u>7</u>	<u>629</u>
Grand Total ..	<u>7</u>	<u>14,077</u>

SIDDAPUR TANK—*Tank Project*—cont.

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 sanction.
	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.
Works ..	5,35,737	12,086	5,22,751	..	..	..	5,22,751
Establishment ..	1,06,156	9,901	96,255	..	..	..	96,255
Tools and plant ..	1,72,598	124	1,72,474	..	..	..	1,72,474
Suspense account ..	..	..	..	..	..	..	..
Total ..	<u>8,14,491</u>	<u>23,011</u>	<u>7,91,480</u>	..	..	..	<u>7,91,480</u>
Less—Receipts on capital account.	295	147	442	..	..	..	442
Net Total ..	<u>8,14,196</u>	<u>23,158</u>	<u>7,91,038</u>	..	..	..	<u>7,91,038</u>
Indirect Charges.							
Capitalized abatement of land revenue ..	14,861	1,386	13,475	..	..	..	13,475
Leave and pension allowances ..	..	27	27	..	..	..	27
Audit and accounts ..	..	..	..	..	..	..	..
Total ..	<u>14,861</u>	<u>1,413</u>	<u>13,448</u>	..	..	..	<u>13,448</u>
Grand Total ..	<u>8,29,057</u>	<u>24,571</u>	<u>8,04,486</u>	..	..	..	<u>8,04,486</u>

The construction estimate of the project was closed on 31st October 1919 and the completion report approved in G.O. No. 204 I., dated 22nd July 1922.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

[Vide details on page 255 of the Administrative Accounts for 1934-35.]

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
II. DIRECT RECEIPTS--					
6. Receipts from other canal produce.					
9. Rents of buildings	..	..	I. EXTENSIONS AND IMPROVEMENTS--	..	..
11. Miscellaneous	4	56	(1) Head works	..	..
Recoveries of expenditure	28	36	(2) Main canals and branches	..	..
Total, Revenue realized in Public Works Department	32	92	(3) Distributaries	..	..
			(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	..
			Total	..	..
			II. MAINTENANCE AND REPAIRS.	..	3,683
			(1) Head works	400	..
			(2) Main canals and branches	..	..
			(3) Distributaries	..	..
			(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	..
			Add--Unclassifiable outlay	..	..
			Total	400	3,683
Irrigation Revenue realized in Civil Department	253	28,722	Total, Extensions and Improvements and Maintenance and Repairs	400	3,683
			IV. ESTABLISHMENT	278	1,501
			V. TOOLS AND PLANT	..	6
			VI. REFUNDS OF REVENUE	..	..
Total, Direct Receipts	285	28,814	Total, Direct Charges	678	5,190
I. INDIRECT RECEIPTS--			Share of collection charges in the Civil Department	20	1,501
Share of Land Revenue collected in the Civil Department	1,017	3,056	Indirect Charges	4	36
Total, Public Works and Civil Departments, Revenue	1,302	31,870	Total, Direct and Indirect Charges. Balance, net revenue	702	6,727
				600	25,143
Total Receipts	1,302	31,870	Grand Total	1,302	31,870

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	89,973	Net revenue realized to end of 1937-1938 ..	24,543
Total interest charges for the year 1938-1939 ..	4,828	Net revenue realized during 1938-1939 ..	600
		Balance, net interest charges	69,658
Total ..	<u>94,801</u>	Total ..	<u>94,801</u>

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	..
Leave and pension allowances	..	2,595
Total ..	..	<u>2,595</u>
REVENUE—		
Audit and accounts	4	36
Total ..	<u>4</u>	<u>36</u>
Grand Total ..	<u>4</u>	<u>2,631</u>

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project*—cont.

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.	
	RS.	RS.	RS.				RS.
<i>Direct Charges.</i>							
Works	88,757	..	88,757	..	..	..	88,757
Establishment	18,538	..	18,538	..	..	..	18,538
Tools and plant	..	..	..	..	..	..	..
Suspense account	..	..	..	..	..	..	..
Total ..	<u>1,07,295</u>	<u>..</u>	<u>1,07,295</u>	<u>..</u>	<u>..</u>	<u>..</u>	<u>1,07,295</u>
Less—Receipts on capital account.	..	..	..	..	..	..	..
Net total ..	<u>1,07,295</u>	<u>..</u>	<u>1,07,295</u>	<u>..</u>	<u>..</u>	<u>..</u>	<u>1,07,295</u>
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue	..	..	..	..	..	..	2,595
Leave and pension allowances	..	..	..	..	..	..	2,595
Total ..	<u>2,595</u>	<u>..</u>	<u>2,595</u>	<u>..</u>	<u>..</u>	<u>..</u>	<u>2,595</u>
Grand Total ..	<u>1,09,890</u>	<u>..</u>	<u>1,09,890</u>	<u>..</u>	<u>..</u>	<u>..</u>	<u>1,09,890</u>

The construction estimate of the project was closed on 31st December 1919 and the completion report approved in G.O. No. 53 I., dated 14th February 1921.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MOPAD PROJECT—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construc- tion as now estimated.
	During the year.	To end of the year.	
I. Works—			
(1) Head works	..	13,96,753	13,96,753
(2) Main canals and branches	..	3,15,442	3,15,442
(3) Distributaries	..	26,541	26,541
(6) Special tools and plant	..	71,520	71,520
Total, Works	..	16,67,216	16,67,216
II. Establishment	..	3,20,610	3,20,610
III. Tools and plant	..	2,34,214	2,34,214
Grand Total	..	22,22,040	22,22,040
V. Less receipts on capital account	..	27,894	27,894
Net outlay in India and England.	..	21,94,146	21,94,146

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
I. DIRECT RECEIPTS—					
3. Sales of water	..	68	(1) Head works	..	3,169
5. Plantations	..	22	(2) Main canals and branches	..	26,961
6. Receipts from other canal produce.	..	264	(3) Distributaries	305	3,869
9. Rent of buildings	..	2,005	(4) Drainage and protective works.	..	..
II. Miscellaneous	..	2,961	(5) Special tools and plant	..	..
Recoveries of expenditure	..	659	Total	305	33,999
Deduct—Refunds	..	136			
Total, Revenue realized in the Public Works Department	143	5,843	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department	37,787	4,85,674	(1) Head works	1,418	46,068
Total, Direct Receipts	37,930	4,91,517	(2) Main canals and branches	1,183	48,811
II. Indirect Receipts—Shares of Revenue collected in the Civil Department.	5,170	81,876	(3) Distributaries	2,394	29,404
Total, Public Works and Civil Departments, Revenue	43,100	5,73,393	(4) Drainage and protective works.	..	..
			(5) Special tools and plant	..	..
			Total	4,995	1,24,283
			Total, Extensions and Improvements and Maintenance and Repairs		
			IV. ESTABLISHMENT	5,300	1,58,282
			V. TOOLS AND PLANT	2,325	55,403
			VI. RECOVERIES ON REVENUE ACCOUNT.	7	908
			Total, Direct Charges	..	16
			Share of collection charges in the Civil Department	7,632	2,14,577
			Indirect charges.	1,922	24,575
			Total, Direct and Indirect Charges	53	2,710
			Balance, not revenue	9,607	2,41,862
Total, Receipts	43,100	5,73,393	33,493	3,31,531	
			Grand Total	43,100	5,73,393

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MOPAD PROJECT—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938	20,10,829	Net revenue realized to end of 1937-1938	2,98,038
Total interest charges for the year 1938-1939 ..	98,736	Net revenue realized during 1938-1939 ..	33,493
		Balance, not interest charges.	17,78,034
Total ..	<u>21,09,565</u>	Total ..	<u>21,09,565</u>

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.		During the year.	To end of the year.
		RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	..	..	51,698
Leave and pension allowances	..	..	44,856
Audit and accounts	..	..	125
Total ..	..	..	<u>96,429</u>
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and allowances	..	..	1,126
Audit and accounts	..	53	1,584
Total ..	..	53	<u>2,710</u>
Grand Total ..	..	53	<u>99,139</u>

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

MOPAD PROJECT—Canal Project—cont.

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.		Charges to date.		Amount of sanctioned estimate.		Unspent balance of estimate.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direct Charges.										
Works Establishment	..	..	..	..	..	..	..	..	..	..
Tools and plant	..	..	..	..	..	..	..	..	..	..
Suspense account	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	..	..	..	..
Less—Receipts on capital account.	..	..	..	..	..	..	..	..	..	..
Net Total ..	..	..	..	..	..	..	..	..	..	..
	16,66,575	641	16,67,216	..	..	..	..	..	..	16,67,216
	3,20,381	229	3,20,610	..	..	..	..	..	..	3,20,610
	2,34,213	1	2,34,214	..	..	..	..	..	..	2,34,214
	..	..	..	..	..	..	..	..	..	..
	22,21,169	871	22,22,040	..	..	..	..	..	..	22,22,040
	27,894	..	27,894	..	..	..	..	..	..	27,894
	21,93,275	871	21,94,146	..	..	..	..	..	..	21,94,146
Indirect Charges.										
Capitalized abatement of land revenue	..	..	..	..	..	..	..	..	..	..
Leave and pension allowances	..	..	..	..	..	..	..	..	..	..
Audit and accounts	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	..	..	..	..
Grand Total ..	..	..	..	..	..	..	..	..	..	..
	51,698	..	51,698	..	..	..	..	..	..	51,698
	44,856	..	44,856	..	..	..	..	..	..	44,856
	132	7	125	..	..	..	..	..	..	125
	96,422	7	96,429	..	..	..	..	..	..	96,429
	22,89,697	878	22,90,575	..	..	..	..	..	..	22,90,575

The construction estimate of the project was closed on 30th April 1921 and the completion report approved in G.O. No. 1373 I., dated 23rd May 1928.

KANNIYAMPALAYAM ANICUT—*Tank Project.*

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 263 of the Administrative Accounts
for 1934-35.]ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

No. 3.—Revenue Account for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
DIRECT RECEIPTS.			I. EXTENSIONS AND IMPROVEMENTS—		
1. Water-rates	4,000	60,000	(1) Head works	..	248
6. Receipts from other canal produce	..	..	(2) Main canals and branches	..	..
9. Rent of buildings	..	..	(3) Distributaries	..	..
11. Miscellaneous	..	3	(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	..
Total, Revenue realized in the Public Works Department	4,000	60,003	Total	..	248
IRIGATION REVENUE realized in Civil Department	..	169	II. MAINTENANCE AND REPAIRS—		
			(1) Head works	1,001	43,288
	4,000	60,172	(2) Main canals and branches	..	..
	..	..	(3) Distributaries	..	..
	..	..	(4) Drainage and protective works	..	..
	..	..	(5) Special tools and plant	..	..
	4,000	60,172	<i>Add—Unclassifiable outlay</i>	..	..
Total	4,000	60,172	Total	1,001	43,288
			Total, Extensions and Improvements and Maintenance and Repairs	1,001	43,536
			IV. ESTABLISHMENT	312	11,627
			V. TOOLS AND PLANT	1	536
			VI. REFUNDS AND REVENUE	..	..
			Total, Direct charges	1,314	55,699
			Share of collection charges in the Civil Department	..	1,012
			Indirect charges	10	..
			Total, Direct and Indirect charges	1,324	56,720
			Balance, Net revenue	2,676	3,452
			Grand Total	4,000	60,172

KANNIYAMPALAYAM ANICUT—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1938-1939.

Amount.	Amount.
RS.	RS.
Total interest charges to end of 1937-1938 ..	1,11,568
Total interest charges for the year 1938-1939.	4,825
Total ..	1,16,393
Net revenue realized to end of 1937-1938 ..	776
Net revenue realized during 1938-1939.	2,676
Balance, net interest charges ..	1,12,941
Total ..	1,16,393

No. 5.—Account of indirect charges for and to end of 1938-1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances ..	..	3,787
Audit and accounts ..	..	66
Total ..	..	3,853
REVENUE—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances ..	..	576
Audit and accounts ..	10	436
Total ..	10	1,012
Grand Total ..	10	4,865

KANNIYAMPALAYAM ANICUT—*Tank Project*—cont.

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.	
	RS.	RS.	RS.				RS.
Direct Charges.							
Works ..	92,266	5,125	97,391	..	..	..	97,391
Establishment ..	25,172	1,863	27,035	..	..	..	27,035
Tools and plant ..	453	42	495	..	..	..	495
Suspense account ..	..	..	..	..	..	..	..
Total ..	1,17,891	7,030	1,24,921	..	..	..	1,24,921
Less—Receipts on capital account.	..	17,700	17,700	..	..	..	17,700
Net Total ..	1,17,891	— 10,670	1,07,221	..	..	..	1,07,221
Indirect Charges.							
Capitalized abatement of land revenue ..	..	262	3,787	..	..	..	3,787
Leave and pension allowances ..	3,525	51	66	..	..	..	66
Audit and accounts ..	..	313	3,853	..	..	..	3,853
Total ..	3,540	— 10,357	1,11,074	..	..	..	1,11,074
Grand Total ..	1,21,431	— 10,357	1,11,074	..	..	..	1,11,074

The construction estimate of the project was closed on 31st March 1939 and the completion report approved in G.O. No. 190 L. dated 31st March 1939.

THIPPAYAPALEM PROJECT—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated. RS.
	During the year. RS.	To end of the year. RS.	
I. WORKS—			
(1) <i>Head Works—</i>			
B. Land		35,246	35,245
C. Works	174	1,08,699	1,13,070
K. Buildings		7,026	7,703
L. Earthwork		2,40,975	2,59,070
O. Miscellaneous	1,065	3,744	21,512
Unforeseen works		14,487	..
Total	1,239	4,10,177	4,36,600
(2) <i>Main Canals and Branches—</i>			
F. (1) Other cross drainage works	493	493	..
L. Earthwork		26,401	..
O. Miscellaneous	774	774	31,000
Total	1,267	27,668	31,000
(3) <i>Distributaries—</i>			
C. Works	..	..	..
L. Earthwork	..	..	..
O. Miscellaneous	..	..	..
Total	..	..	..
(6) <i>Special tools and plant</i>	..	..	..
Total, Works	2,506	4,37,845	4,67,600
II. ESTABLISHMENT	1,602	1,29,734	1,27,590
III. TOOLS AND PLANT	3	960	9,352
Grand Total	4,111	5,68,539	6,04,548
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT</i>	..	656	..
Not outlay in India and England	4,111	5,67,883	6,04,548

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

Receipts.	TOTAL.		Charges.	TOTAL.		Share of collection charges in the Civil Department	Indirect charges	Total, Direct and Indirect Charges. Balance, net revenue	Grand total
	During the year. RS.	To end of the year. RS.		During the year. RS.	To end of the year. RS.				
I. DIRECT RECEIPTS—									
Receipts from other canal produce. Miscellaneous	..	..		..	..				
Total, Revenue realized in Public Works Department.	..	..		..	..				
Irrigation Revenue realized in Civil Department	..	..		..	..				
Total, Direct Receipts.. .. .	..	..		..	..				
II. INDIRECT RECEIPTS—									
Share of land revenue collected in the Civil Department	..	..		..	..				
Total, Public Works and Civil Departments, Revenue	..	..		..	..				
Total, Receipts	..	..		..	..				
I. EXTENSIONS AND IMPROVEMENTS—									
(1) Head works	..	..		..	..				
(2) Main canals and branches	..	..		..	..				
(3) Distributaries	..	..		..	..				
(4) Drainage and protective works	..	..		..	..				
(5) Special tools and plant	..	..		..	..				
Total	..	..		..	..				
II. MAINTENANCE AND REPAIRS—									
(1) Head works	..	..		..	..				
(2) Main canals and branches	..	..		..	..				
(3) Distributaries	..	..		..	..				
(4) Drainage and protective work	..	..		..	..				
(5) Special tools and plant	..	..		..	..				
Add—Unclassifiable outlay	..	..		..	..				
Total	..	..		..	..				
Total, Extensions and Improvements and Maintenance and Repairs	..	..		..	..				
IV. ESTABLISHMENT	..	..		..	..				
V. TOOLS AND PLANT	..	..		..	..				
VI. REFUNDS OF REVENUE	..	..		..	..				
Total, Direct Charges	..	..		..	..				
Share of collection charges in the Civil Department	..	..		..	..				
Indirect charges	..	..		..	..				
Total, Direct and Indirect Charges. Balance, net revenue	..	..		..	..				
Grand total	..	..		..	..				

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

THIPPAYAPALEM PROJECT—Canal Project—cont.

No. 4.—Interest Accounts for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-38.	1,03,369	Net revenue realized to end of 1937-38.	..
Total interest charges for the year 1938-39.	25,198	Net revenue realized during 1938-39.	5,446
		Balance, net interest charges.	1,23,121
Total ..	1,28,567	Total ..	1,28,567

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	4,919
Leave and pension allowances ..	..	2,688
Audit and accounts ..	25	4,381
Total ..	25	11,988
REVENUE—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances ..	..	..
Audit and account ..	..	..
Total ..	..	..
Grand Total ..	25	11,988

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

THIPPAYAPALEM PROJECT—Canal Project—cont.

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 sanctions.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.
	RS.	RS.	RS.	RS.	RS.
Direct Charges.					
Works ..	..	..	4,37,845	4,67,600	29,755
Establishment ..	..	..	1,29,734	1,27,596	— 2,138
Tools and plant ..	..	..	960	9,352	8,392
Suspense account ..	..	..	..	..	..
Total ..	..	..	5,68,539	6,04,548	36,009
Less—Receipts on Capital account.	..	..	656	..	— 656
Net Total ..	..	..	5,67,883	6,04,548	36,665
Indirect Charges.					
Capitalized abatement of land revenue.	..	..	4,919	17,800	12,881
Leave and pension allowances ..	..	..	2,688	4,676	— 2,688
Audit and accounts ..	..	..	4,381	..	295
Total ..	..	..	11,988	22,476	10,488
Grand Total ..	..	..	5,79,871	6,27,024	47,153

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

BASAVANNAH CHANNEL.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES		Cost of construction as now estimated. RS.
	During the year. RS.	To end of the year. RS.	
I. WORKS—			
(1) <i>Head Works—</i>			
C. Works	..	14,055	14,030
Total	..	14,055	14,030
(2) <i>Main Canals and Branches—</i>			
B. Land	..	21,730	21,730
C. Works	..	95,659	98,406
K. Buildings	1,500	1,500	..
L. Earthwork	..	2,92,433	2,91,714
O. Miscellaneous	..	7,148	8,290
P. Maintenance	..	6,307	..
Total	1,500	4,24,777	4,20,140
(3) <i>Distributaries—</i>			
L. Earthwork	776	29,193	34,555
B. Land	..	814	..
Total	776	30,007	34,555
Total, Works	2,276	4,68,839	4,68,725
II. ESTABLISHMENT	1,458	1,12,166	1,13,706
III. TOOLS AND PLANT	2	2,197	3,092
Grand Total	3,736	5,83,202	5,85,523
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	..	..	..
Net outlay in India and England ..	3,736	5,83,202	5,85,523

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

Receipts.	TOTAL.		Charges.	TOTAL.
	During the year. RS.	To end of the year. RS.		
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—	
5 Receipts from plantations	..	..	(1) Headworks	..
6 Receipts from other canal produce ..	..	..	(2) Main canals and branches ..	..
11 Miscellaneous	..	..	(3) Distributaries	..
Recoveries of expenditure	..	..	(4) Drainage and protective works ..	..
Deduct—Refunds	..	..	(5) Special tools and plant ..	..
Total, Revenue realized in Public Works Department	71	..	Total	..
Irrigation revenue realized in Civil Department	..	..	II. MAINTENANCE AND REPAIRS—	
Total, Direct Receipts.	71	..	(1) Headworks	..
II. INDIRECT RECEIPTS—			(2) Main canals and branches ..	..
Share of land revenue collected in the Civil Department	..	..	(3) Distributaries	..
Total, Public Works and Civil Departments, Revenue	71	..	(4) Drainage and protective works ..	..
Net deficit, if any	9,080	..	(5) Special tools and plant ..	..
			Add—Unclassified outlay	..
			Total	..
			Total, Extensions and Improvements and Maintenance and Repairs ..	5,544
			IV. ESTABLISHMENT	5,544
			V. TOOLS AND PLANT	3,546
			VI. REFUNDS OF REVENUE	5
			Total, Direct Charges	9,095
			Share of collection charges in the Civil Department	..
			Indirect charges	..
			Total, Direct and Indirect Charges. Balance, not revenue.	..
			Grand Total	9,151
				75,299
				..
				75,299
				..
				75,299

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

BASAVANNAH CHANNEL—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	2,62,277	Net revenue realized to end of 1937-1938 ..	65,879
Total interest charges for the year 1938-1939 ..	26,151	Net revenue realized during 1938-1939 ..	9,080
		Balance, net interest charges ..	3,63,387
Total ..	2,88,428	Total ..	2,88,428

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	1,229
Leave and pension allowances ..	..	661
Audit and accounts ..	23	4,688
Total ..	23	6,578
REVENUE—		
Leave and pension allowances ..	..	579
Audit and accounts ..	56	579
Total ..	56	579
Grand Total ..	79	7,157

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

BASAVANNAH CHANNEL—cont.
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.	Charges to date. RS.	Amount of sanctioned estimate. RS.	
Direct Charges.					
Works ..	..	..	4,08,839	4,68,725	..
Establishment ..	..	..	1,12,166	1,13,706	..
Tools and plant ..	..	..	2,197	3,092	..
Suspense account ..	..	..	..	..	..
Total ..	..	..	5,83,202	5,85,523	2,321
Less—Receipts on capital account.					
Net Total ..	..	..	5,83,202	5,85,523	2,321
Indirect Charges.					
Capitalized abatement of land revenue.	..	..	1,229	1,229	..
Leave and pension allowances ..	..	..	661	661	..
Audit and accounts ..	..	..	4,688	4,687	..
Total ..	..	..	6,578	6,577	..
Grand Total ..	..	..	5,89,780	5,92,100	2,320

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

DUVVVALERU PROJECT—*Canal Project.*

No. 2.—Capital Account for and to end of 1938–1939.

Head of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. WORKS—			
(1) <i>Head Works</i> —			
C. Works	..	1,282	38,800
K. Buildings	852	852	5,000
O. Miscellaneous	..	..	3,285
Total	852	2,134	47,085
(2) <i>Main Canals and Branches</i> —			
A. Preliminary expenses	104	355	3,623
B. Land	893	927	1,710
D. Regulators	..	..	330
E. Falls and weirs	..	..	2,400
F. River and hill torrent works	..	..	8,500
G. Bridges	..	..	4,030
H. Escapes	..	..	1,120
L. Earthwork	3,022	3,447	41,610
O. Miscellaneous	..	..	4,368
Total	4,019	4,729	67,691
(5) <i>Water courses</i> —			
L. Earthwork	..	..	1,724
Total	..	..	1,724
Total works	4,871	6,863	1,16,500
II. Establishment	3,113	4,100	31,790
III. Tools and plant	4	8	2,330
IV. Suspense	..	..	..
V. Less receipts on capital account	..	..	..
Net outlay in India and England	7,988	10,971	1,50,620

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938–1939.

MADRAS PRESIDENCY.

DUVVVALERU PROJECT—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1938–1939.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1937–1938	68	Net revenue realized to end of 1937–1938	..
Total interest charges for the year 1938–1939	300	Net revenue realized during 1938–1939	..
		Balance, net interest charges.	368
Total	368	Total	368

No. 5.—Account of Indirect Charges for and to end of 1938–1939.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	..
Leave and pension allowances	..	..
Audit and accounts	49	69
Total	49	69

DUVVALERU PROJECT—Canal Project—cont.

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 sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
				RS.	RS.	RS.	
<i>Direct Charges.</i>							
Works Establishment ..	..	..	..	6,833	1,16,500	1,09,637	..
Tools and plant ..	..	..	..	4,100	31,750	27,650	..
	..	..	..	8	2,330	2,322	..
Total ..	..	..	..	10,971	1,50,620	1,39,649	..
<i>Less—Receipts on capital account..</i>	..	..	..	..	..	..	..
Not Total ..	..	..	..	10,971	1,50,620	1,39,649	..
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	..	..	..	..	290	290	..
Leave and pension allowances ..	..	..	..	69	1,165	1,096	..
Audit and accounts ..	..	..	..	69	1,455	1,386	..
Total ..	..	..	..	11,040	1,52,075	1,41,035	..
Grand Total ..	..	..	..				

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

VEDARANNIYAM CANAL—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

[Vide details on page 278 of the Administrative Accounts for 1934-35.]

VEDARANNIYAM CANAL—Canal Project—cont.

No. 3.—Revenue Accounts for and to end of 1938-1939.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year. RS.	To end of the year. RS.		During the year. RS.	To end of the year. RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations ..	14	1,896	(1) Head works ..	..	..
6. Receipts from other canal produce ..	..	677	(2) Main canals and branches ..	..	11,471
8. Navigation receipts ..	674	50,063	(3) Distributaries ..	..	479
9. Rents of buildings ..	..	43	(4) Drainage and protective works ..	..	638
10. Fines ..	..	145	(5) Special tools and plant ..	..	— 114
11. Miscellaneous ..	..	493	Total ..	..	12,474
Recoveries of expenditure ..	40	40	II. MAINTENANCE AND REPAIRS—		
Deduct—Refunds ..	2	591	(1) Head works ..	..	..
Total revenue realized in the Public Works Department ..	726	52,856	(2) Main canals and branches ..	5,799	3,00,358
Total, Direct receipts ..	726	52,856	(3) Distributaries ..	..	499
Total, Public Works and Civil Departments, Revenue ..	726	52,856	(4) Drainage and protective works ..	..	14,325
			(5) Special tools and plant ..	..	53
			Total ..	5,799	3,15,235
			Total, Extensions and Improvements and Maintenance and Repairs ..	5,799	3,27,709
			IV. ESTABLISHMENT ..	2,370	96,817
			V. TOOLS AND PLANT ..	5	8,267
			VI. REFUNDS OF REVENUE ..	..	41
			Total, Direct Charges ..	8,174	4,32,834
			Share of collection charges in the Civil Department ..	..	..
			Indirect charges ..	58	9,715
			Total, Direct and Indirect Charges ..	8,232	4,42,549
			Balance, net revenue ..	..	..
Net deficit, if any ..	7,506	3,89,693	Grand Total ..	8,232	4,42,549
	Total ..	Total ..			

374

PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

375

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

VEDARANNIYAM CANAL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	3,50,113	Net revenue realized to end of 1937-1938 ..	— 3,82,187
Total interest charges for the year 1938-1939 ..	5,971	Net revenue realized during 1938-1939 ..	— 7,506
		Balance, net interest charges ..	7,45,777
Total ..	3,56,084	Total ..	3,56,084

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	259
Leave and pension allowances ..	..	3,474
Audit and accounts ..	..	..
Total ..	..	3,733
REVENUE—		
Capitalization of abatement of land revenue ..	..	655
Leave and pension allowances ..	..	7,623
Audit and accounts ..	58	1,437
Total ..	58	9,715
Grand Total ..	58	13,448

VEDARANNIYAM CANAL—Canal Project—cont.

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

Particulars.	CHARGE AGAINST CLOSED SANCTIONS.		CURRENT SANCTIONS.			Total charges to date against old and current sanctions.
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.
	RS.	RS.	RS.			RS.
<i>Direct Charges.</i>						
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
<i>Indirect Charges.</i>						
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

The construction estimate of the project was closed on 31st March 1893.

BUCKINGHAM CANAL—Canal Project.

No. 2.—Capital Account for and to end of 1938-1939.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year. RS.	To end of the year. RS.	
Works—			
(1) Main canals and branches ..	1,796	68,19,013	68,19,013
(2) Old outlay	..	5,04,091	5,04,091
Total Works ..	1,796	68,23,104	68,23,104
II. Establishment	220	16,14,766	16,14,766
III. Tools and plant	..	1,81,040	1,81,040
V. Less—Receipts on capital account.	..	24,365	24,365
Net outlay in India and England.	2,016	85,94,545	85,94,545

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

BUCKINGHAM CANAL—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1938-1939.

Receipts,	TOTAL.		Charges.	TOTAL.	
	During the year. RS.	To end of the year. RS.		During the year. RS.	To end of the year. RS.
I. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
3. Sale of water..	1,800	6,855	(1) Head works ..	12,230	2,05,545
5. Receipts from plantations ..	950	38,088	(2) Main canals and branches ..	..	1,016
6. Receipts from other canal produce.	..	71,427	(3) Distributaries ..	..	72
			(4) Drainage and protective works ..	..	..
			(5) Special tools and plant ..	..	2,06,633
			Total ..	12,230	..
8. Navigation receipts ..	1,02,648	48,83,098	II. MAINTENANCE AND REPAIRS—		
9. Rents of buildings ..	605	15,137	(1) Head works ..	1,13,192	21,709
10. Fines ..	..	1,369	(2) Main canals and branches ..	..	74,46,565
11. Miscellaneous ..	1,350	54,153	(3) Distributaries ..	..	1,49,607
Recoveries of expenditure ..	1	1,271	(4) Drainage and protective works ..	..	1,35,391
			(5) Special tools and plant ..	..	3,125
<i>Deduct—Refunds</i> ..	40	2,325	<i>Add—Unclassifiable outlay</i> ..	..	2,88,470
Receipts for which classification is not obtainable ..	..	14,11,168	Total ..	1,13,192	80,44,857
Total revenue realized in the Public Works Department ..	1,07,314	64,81,141	Total, Extensions and Improvements and Maintenance and Repairs ..	1,25,422	82,51,490
Total, Direct receipts ..	1,07,314	64,81,141	IV. ESTABLISHMENT ..	21,388	22,34,664
Total, Public Works and Civil Department-ments, Revenue ..	1,07,314	64,81,141	V. TOOLS AND PLANT ..	72	1,48,797
Not deficit, if any ..	40,822	44,36,723	VI. REFUNDS OF REVENUE ..	..	22,074
			<i>Deduct—Recoveries on revenue account.</i>	..	4,115
Total ..	1,48,136	1,09,17,864	Total, Direct Charges.	1,46,882	1,06,52,310
			Share of collection charges in the Civil department ..	1,254	2,65,554
			Indirect charges ..	1,48,136	1,09,17,864
			Total, Direct and Indirect Charges ..	1,48,136	1,09,17,864
			Balance, net revenue ..	..	..
			Grand Total ..	1,48,136	1,09,17,864

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1938-1939.

MADRAS PRESIDENCY.

BUCKINGHAM CANAL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1938-1939.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1937-1938 ..	1,80,20,726	Net revenue realized to end of 1937-1938 ..	43,95,901
Total interest charges for the year 1938-1939 ..	3,86,707	Net revenue realized during 1938-1939 ..	40,822
		Balance, net interest charges ..	2,28,44,156
Total ..	1,84,07,433	Total ..	1,84,07,433

No. 5.—Account of Indirect Charges for and to end of 1938-1939.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	2,62,365
Leave and pension allowances ..	..	2,26,866
Audit and accounts ..	18	251
Total ..	18	4,89,482
REVENUE—		
Capitalization of abatement of land revenue ..	..	363
Leave and pension allowances ..	..	2,27,769
Audit and accounts ..	1,254	37,422
Total ..	1,254	2,65,554
Grand Total ..	1,272	7,55,036

DI. 2117/138

N40.2

380

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

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

BUCKINGHAM CANAL—Canal Project—cont.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.		CURRENT SANCTIONS.			Total charges to date against old and current sanctions.
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	
	RS.	RS.	RS.			RS.
<i>Direct Charges.</i>						
Works ..	66,72,338	1,50,766	68,23,104	..	..	68,23,104
Establishment ..	15,85,806	28,960	16,14,766	..	..	16,14,766
Tools and Plant ..	1,80,720	320	1,81,040	..	..	1,81,040
Suspense account ..	..	..	..	..	..	..
Total ..	84,38,864	1,80,046	86,18,910	..	..	86,18,910
Less—Receipts on capital account..	4,502	19,863	24,365	..	..	24,365
Net Total ..	84,34,362	1,60,183	85,94,545	..	..	85,94,545
<i>Indirect Charges.</i>						
Capitalized abatement of land revenue ..	2,62,365	..	2,62,365	..	..	2,62,365
Leave and pension allowances ..	2,23,608	3,258	2,26,866	..	..	2,26,866
Audit and accounts ..	..	251	251	..	..	251
Total ..	4,85,973	3,509	4,89,482	..	..	4,89,482
Grand Total ..	89,20,335	1,63,692	90,84,027	..	..	90,84,027

The construction estimate of the project was closed in March 1897.

A. K. RAMAN,
Deputy Accountant-General.

MADRAS,
16th October 1939.

