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Public Works Department
Madras Presidency

Administration Report
(With Administrative accounts)
For The year - 1937-38

Part. II - Irrigation



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PUBLIC WORKS DEPARTMENT
MADRAS PRESIDENCY

ADMINISTRATION REPORT
(WITH ADMINISTRATIVE ACCOUNTS).
FOR THE YEAR 1937-38

89
PART II—IRRIGATION

MADRAS
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FOREWORD

To make the Administration Report more attractive to the General Public, two new chapters Chapter I, giving a bird's eye-view of irrigation and Chapter II giving a brief description of important works, have been added. An irrigation map showing the various irrigation works clearly is provided. A number of photographs, sketches and diagrams have also been added. The subsequent chapters III to V correspond to the reports of previous years.

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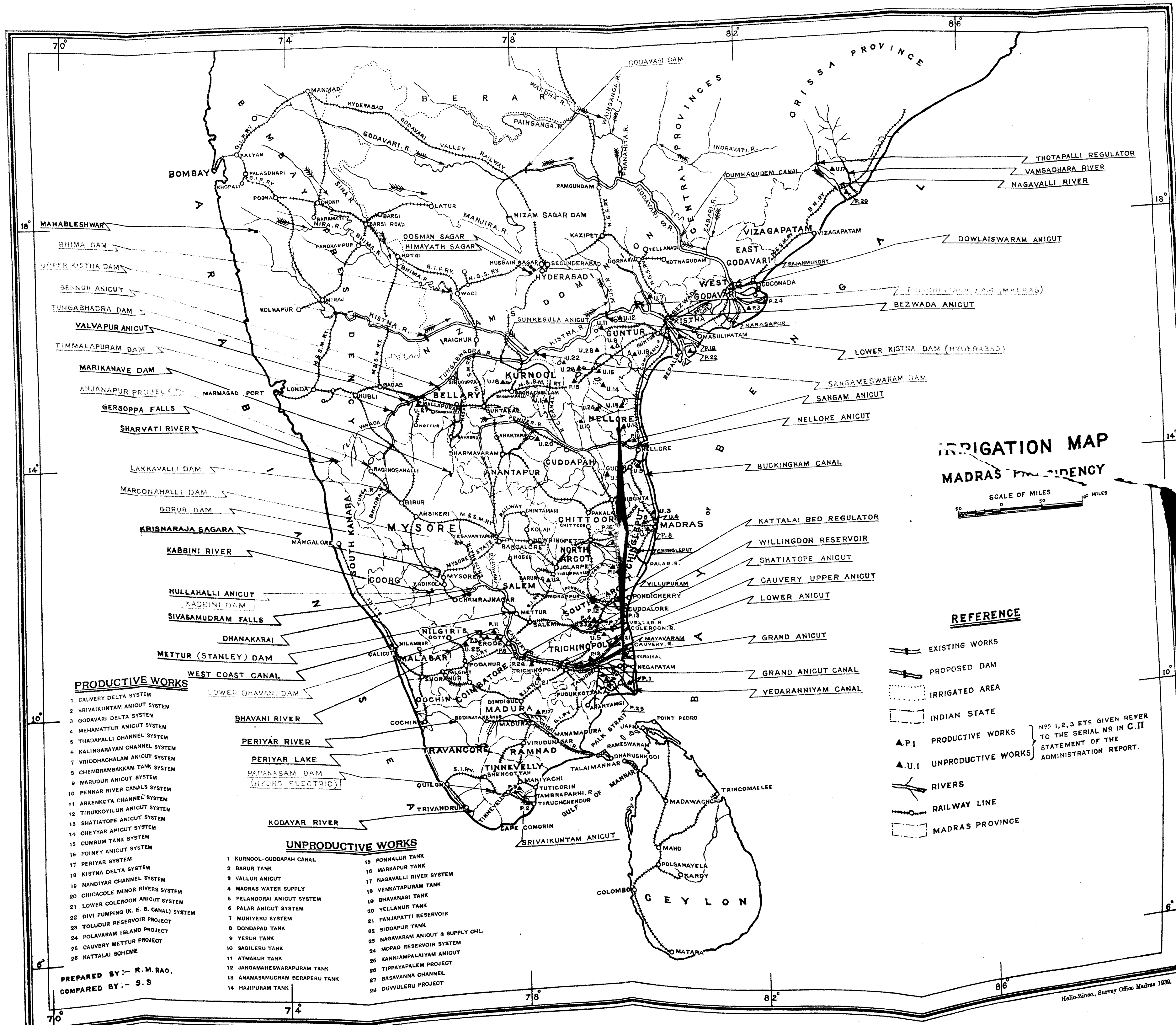
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IRRIGATION MAP MADRAS PRESIDENCY

SCALE OF MILES
0 50 100

REFERENCE

- EXISTING WORKS
- PROPOSED DAM
- IRRIGATED AREA
- INDIAN STATE
- ▲ P.I. PRODUCTIVE WORKS
- ▲ U.I. UNPRODUCTIVE WORKS
- RIVERS
- RAILWAY LINE
- MADRAS PROVINCE

Nº 1, 2, 3 ETC GIVEN REFER
TO THE SERIAL Nº IN C.II
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ADMINISTRATION REPORT.

PRODUCTIVE WORKS

- CAUVERY DELTA SYSTEM
- SRIVAIKUNTAM ANICUT SYSTEM
- GODAVARI DELTA SYSTEM
- MEHAMATTUR ANICUT SYSTEM
- THADAPALLI CHANNEL SYSTEM
- KALINGARAYAN CHANNEL SYSTEM
- VRIDDHACHALAM ANICUT SYSTEM
- CHEMBRAMBAKKAM TANK SYSTEM
- MARUDUR ANICUT SYSTEM
- PENNA RIVER CANALS SYSTEM
- ARKENKOTA CHANNEL SYSTEM
- TIRUKKOVILUR ANICUT SYSTEM
- SHATIATOPE ANICUT SYSTEM
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- CUMBUM TANK SYSTEM
- POINNEY ANICUT SYSTEM
- PERIYAR SYSTEM
- KISTNA DELTA SYSTEM
- NANDIYAR CHANNEL SYSTEM
- CHICACOLE MINOR RIVERS SYSTEM
- LOWER COLEERON ANICUT SYSTEM
- DIVI PUMPING (K. E. B. CANAL) SYSTEM
- TOLUDUR RESERVOIR PROJECT
- POLAVARAM ISLAND PROJECT
- CAUVERY METTUR PROJECT
- KATTALAI SCHEME

UNPRODUCTIVE WORKS

- KURNOOL-CUDDAPAH CANAL
- BARUR TANK
- VALLUR ANICUT
- MADRAS WATER SUPPLY
- PELANDORAI ANICUT SYSTEM
- PALAR ANICUT SYSTEM
- MUNIYERU SYSTEM
- DONDAPAD TANK
- YERUR TANK
- SAGILERU TANK
- ATMAKUR TANK
- JANGAMAHESWARAPURAM TANK
- ANAMASAMUDRAM BERAPERU TANK
- HAIJIPURAM TANK
- PONNALAR TANK
- MARKAPUR TANK
- NAGAVALLI RIVER SYSTEM
- VENKATAPURAM TANK
- BHAVANASI TANK
- YELLANUR TANK
- PANJAPATTI RESERVOIR
- SIDDAPUR TANK
- NAGAVARAM ANICUT & SUPPLY CHL.
- MOPAD RESERVOIR SYSTEM
- KANNIAMPALAIYAM ANICUT
- TIPPAYAPALEM PROJECT
- BASAVANNA CHANNEL
- DUVVULURU PROJECT

PREPARED BY:- R.M. RAO.
COMPARED BY:- S.S.

PUBLIC WORKS DEPARTMENT, MADRAS PRESIDENCY.

ADMINISTRATION REPORT FOR THE YEAR 1937-38.

PART II--IRRIGATION

Chapter I.

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

Any one 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.

The map at the beginning of this report shows the main irrigation systems in the Presidency but a brief summary of the systems will be useful to those not acquainted with them.

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 rises to 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 the Walch's history of the Kistna delta will not here 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 the 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 realised from quoting

"The Europeans throughout the country have subscribed liberally to feed as many of the poor starving wretches as possible, and by this means ten 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 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 Ponnai 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 has been practised in Tanjore for centuries and with the modern works recently built for 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 Pattukkottai, Tanjore is by nature a specially favoured district and everything has and is being done to increase its prosperity.

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. 300,000 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 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 some distance below Sivasamudram, the Mysore Hydro-Electric power station on the Cauvery. The chief tributaries of the river are the Hemavathi, Lakshmana Thirtha, 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, the Krishnarajsagara, near Mysore, and the Mettur reservoir near Salem. Electric power is developed at Sivasamudram (fall 400 feet) and at Mettur (fall about 100 feet). The Cauvery is about 500 miles long and drains about 31,000 square miles.

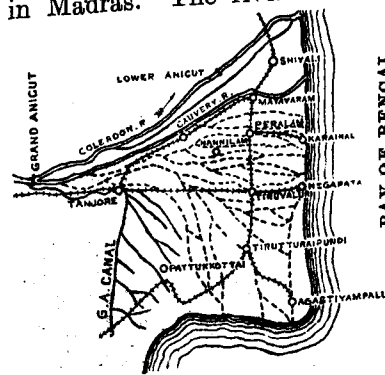
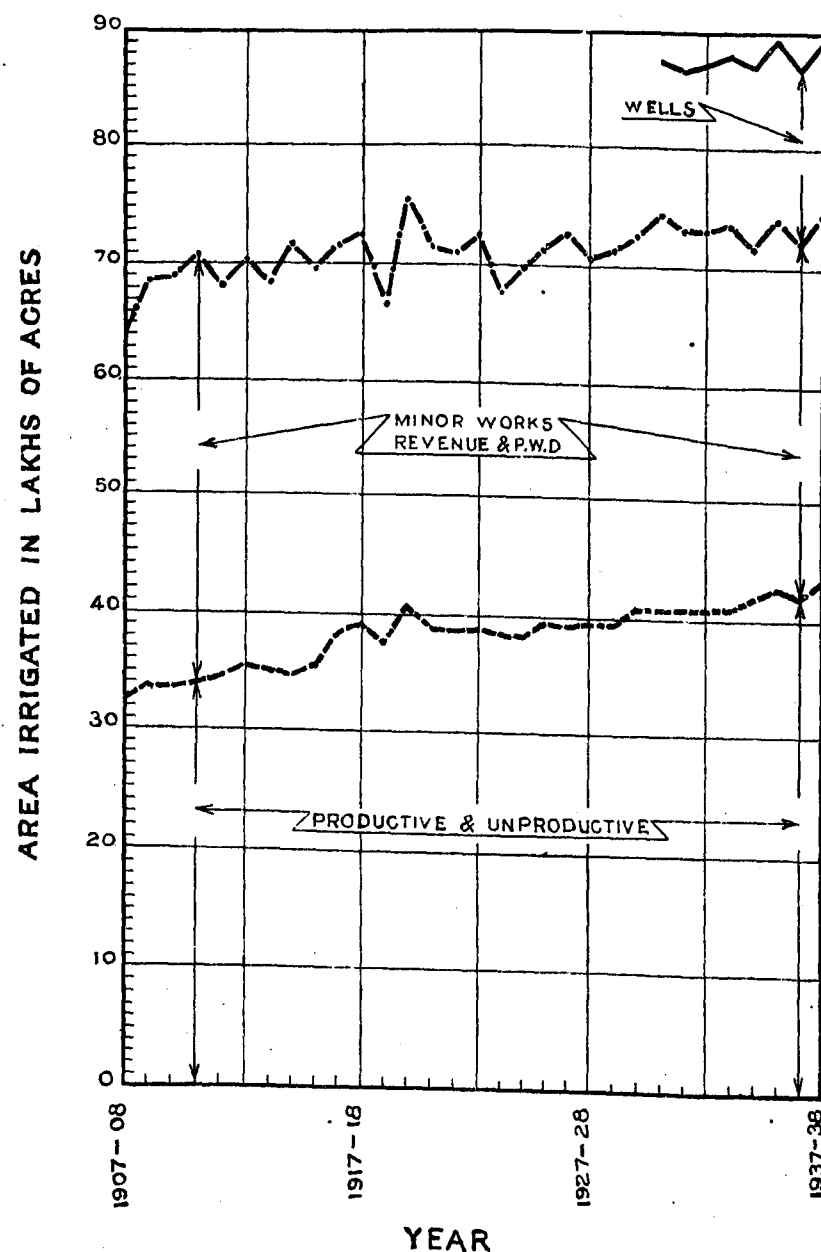
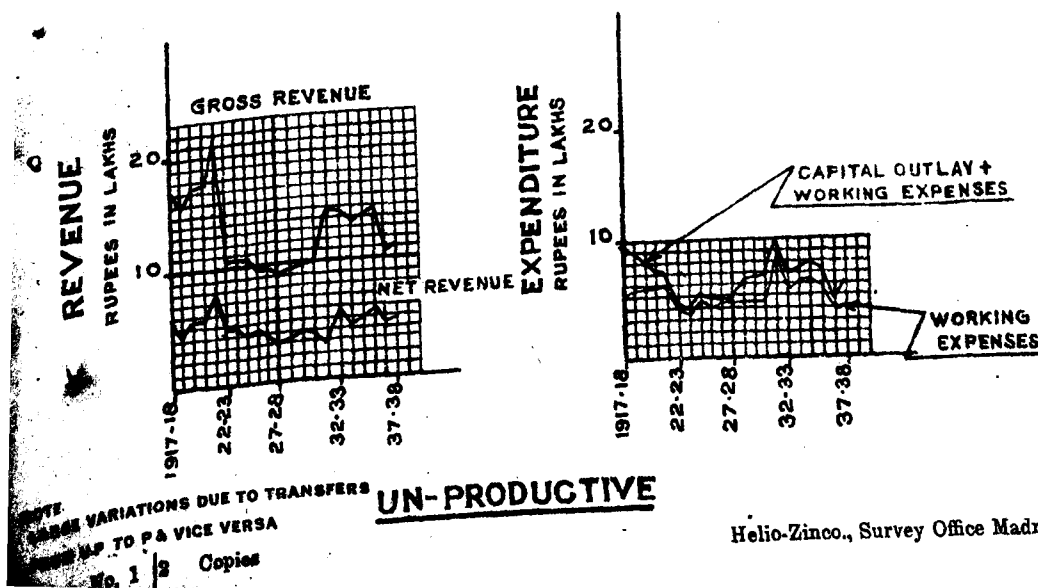
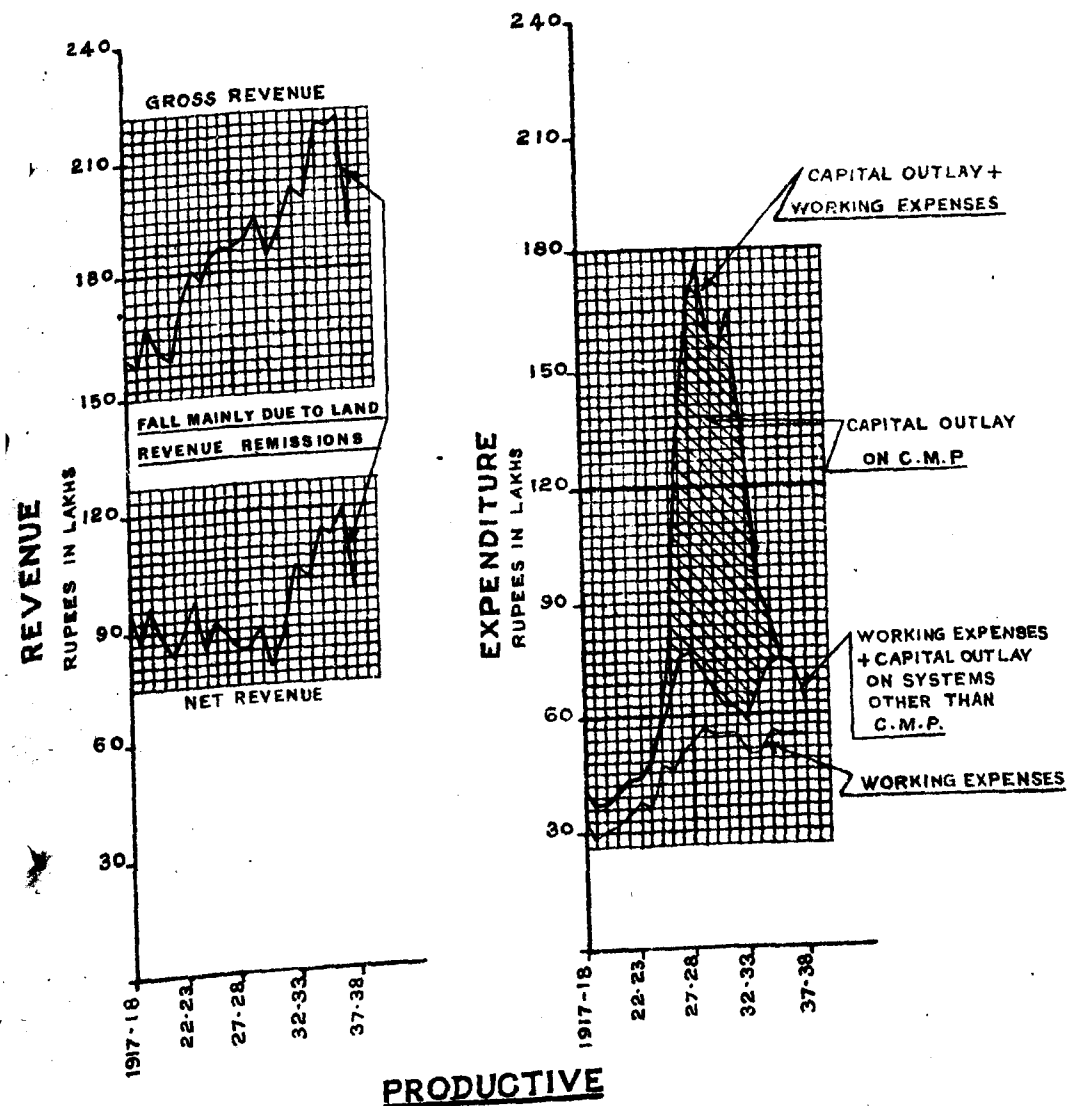


DIAGRAM SHOWING THE AREA IRRIGATED IN MADRAS



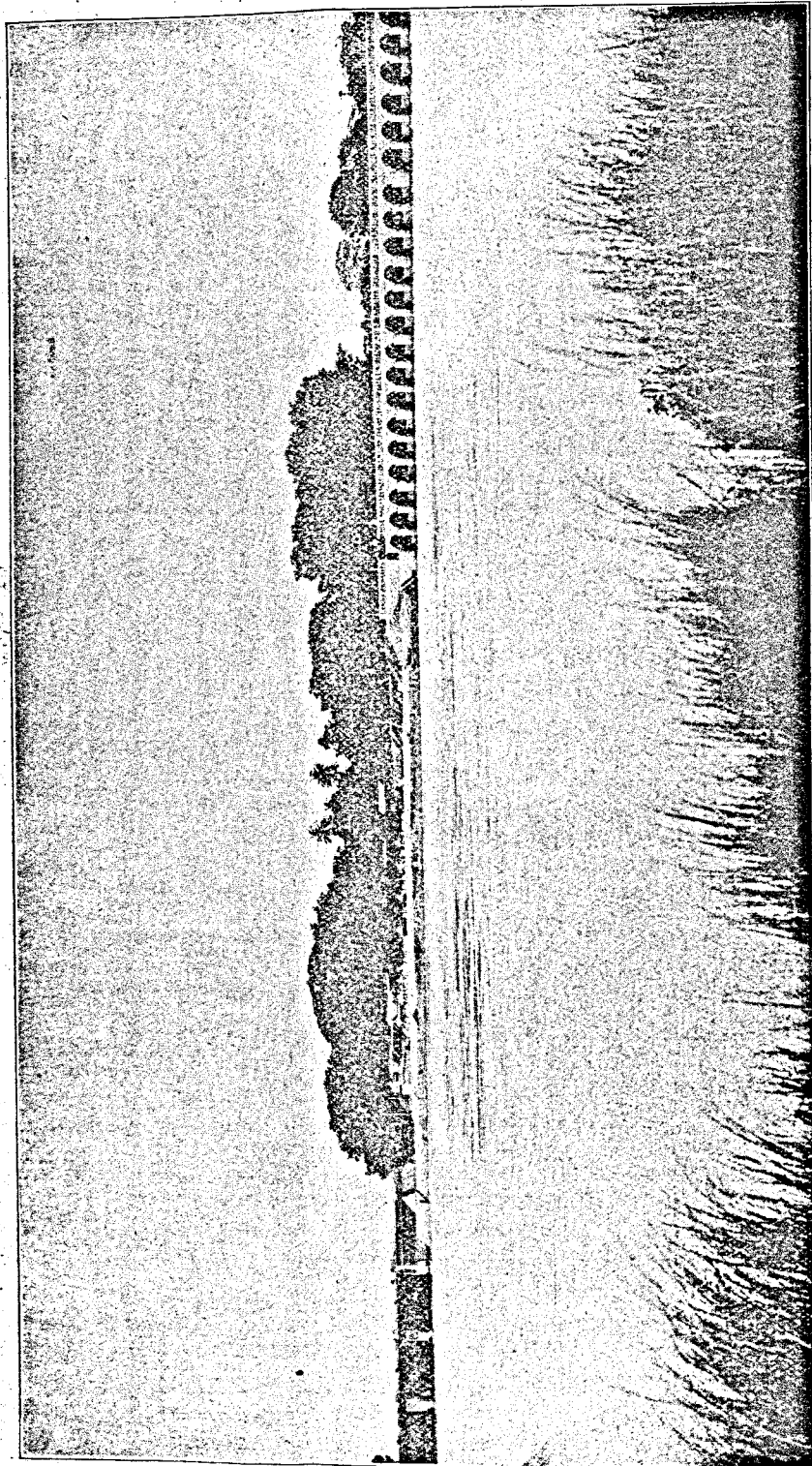
The Cauvery delta system is of great antiquity dating back to the ancient Hindu kings of Tanjore. The delta begins at the head of the Srirangam Island where the river divides into the Cauvery and the Coleroon. There is a barrage across the Coleroon with lift shutters called "the Upper Anicut" and a bed level dam across the Cauvery. Below these regulating works, the Cauvery flows as an irrigation river and the Coleroon serves as a flood carrier. The Cauvery flows on the right side of the Srirangam Island and the

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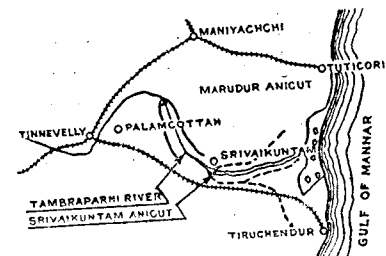
GRAND ANICUT

Coleroon on the left side of the island for some twenty miles until in the old old days the two rivers met and again became one. Man's ingenuity stepped in to prevent this and save the fertile waters of the Cauvery for the Tanjore district. The Grand Anicut was built across the Cauvery about the second century A.D., and the Cauvery waters diverted into the Cauvery and Vennar rivers which irrigate Tanjore district. The two branch rivers enclose a fan-shaped delta, rich and fertile, and for long known as "the granary of Southern India."

The delta is long, wide, and flat, of some 2,000 square miles with a sea board over a hundred miles long extending from Point Calimere on the south to as far north as Chidambaram. The interior of the delta consists of a net work of rivers, channels and regulators and many of the smaller rivers function as sources of irrigation and drainage.

The rivers irrigate about a million acres with crop valued at about Rs. 5 crores. The British Government have spent over Rs. 81 lakhs for improving the delta from the time Government took over the old delta from the Tanjore kings. The system returns about 11 per cent on the capital outlay.

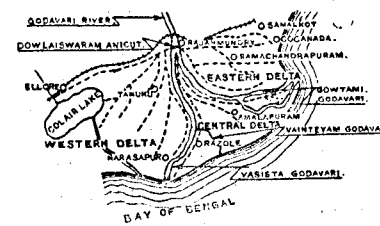
Srivaikuntam anicut system.—The Srivaikuntam anicut is the last of the anicuts across the Tambraparni in Tinnevely district at



which two channels take off. On the left is the north main channel feeding a series of tanks and finally emptying into the Korumpallam tank, which supplies Tuti-corin. On the right side the south main channel takes off and supplies the large Kadamba tank and series of tanks below it.

Supplies reach as far as Tiruchendur with its famous temple on the sea shore. The system irrigates about 25,100 acres, costs about Rs. 18 lakhs and returns 2.42 per cent on the outlay.

The Godavari delta system.—The Godavari rises in the Western Ghats almost within 50 miles of the Arabian Sea and flows across the Peninsula for about 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 Ghats and enters the plains and flows onward once again in a broad and shallow river until some distance below Rajahmundry it divides into

two main branches, the Gautami and the Vasishta Godavari rivers. These branches again divide into two branches a short distance upstream of Dowlaishwaram and enclose three islands. On these islands lie the flood banks connecting the four anicuts across the river. Below these anicuts, the river flows for about 50 miles, splits again into a number of branches which finally empty into the sea. The river drains about 115,000 square miles and carries nearly $1\frac{1}{2}$ million cubic feet per second in very high floods.

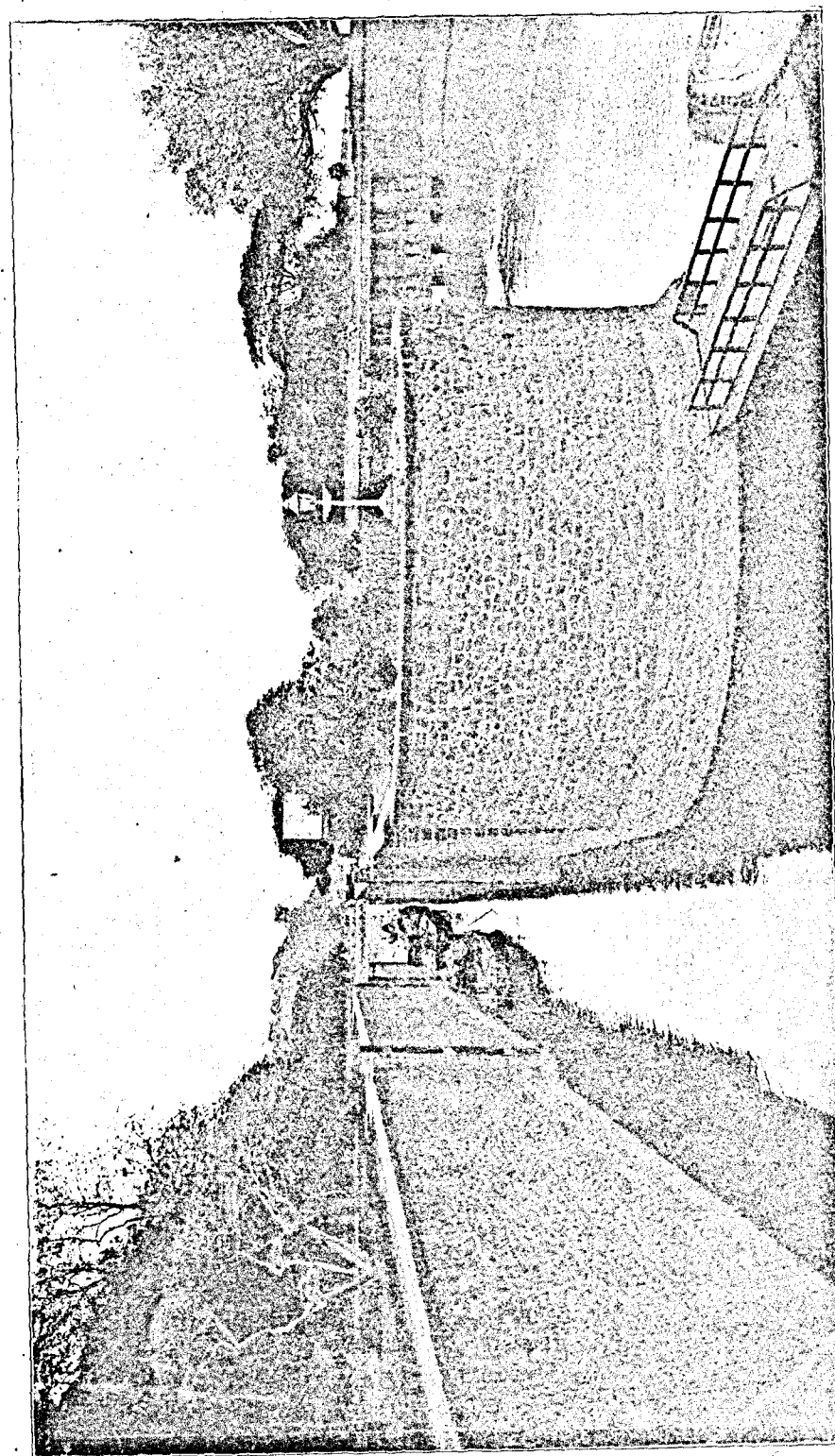
Prior to 1840, the adjoining Rajahmundry district was frequently the scene of bad famines. In 1832-33 a terrible famine ravaged the district and the calamitous famine of 1840-41 followed after some more bad years. The decreasing population and the dwindling revenue spurred Government into action, and soon Major Cotton (later Sir Arthur Cotton) who had just then completed a work in Tanjore was asked to investigate and suggest measures. Sir Arthur Cotton suggested the construction of anicuts at Dowlaishwaram and the excavation of three canals, one for each of the three deltas. The works were sanctioned almost immediately and soon the anicuts and the canals were built. The works were without parallel in the days they were executed. It is to the genius, keenness, and intrepidity of Sir Arthur Cotton, that Madras owes these monumental works which to the Government and the ryots have proved a veritable gold mine.

The system consists of four anicuts and three main canals irrigating three deltas. The anicuts are in four sections, the Dowlaishwaram 4,839 feet long, Ralli 2,859 feet long, Maddur 1,550 feet long, and Vizeswaram 2,601 feet long. The old anicut was soon found to be low and had to be raised slightly and fitted up with falling shutters two feet high. In 1935, the two-foot shutters were replaced by three-foot shutters and a steam plough to lift the shutters had also been installed.

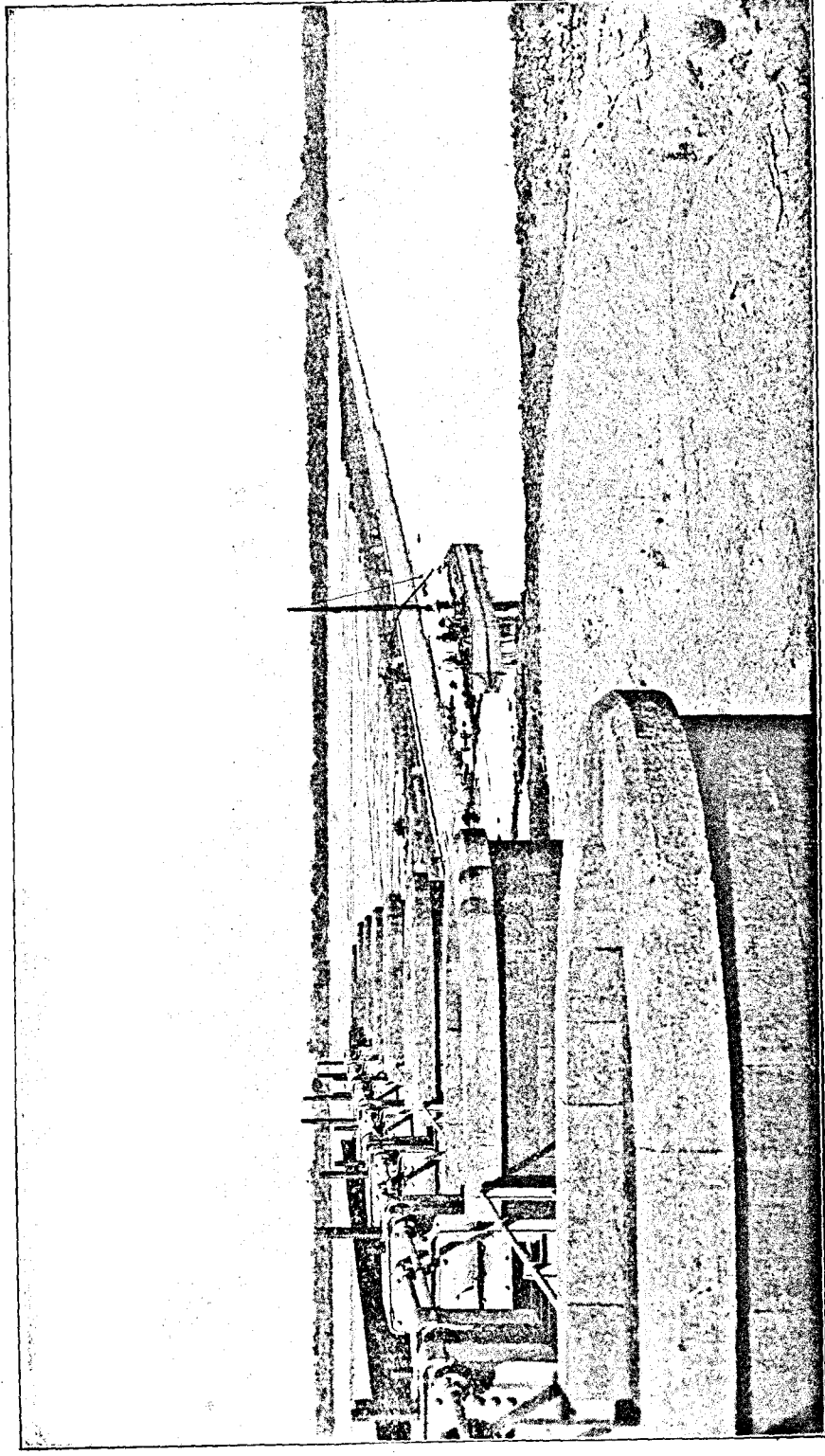
The headworks consist of head and under sluices and a head lock for each of the three deltas, viz., Eastern delta about 450 square miles on the left margin of the river, the Central delta about 500 square miles between the two rivers the Gautami and the Vasishta, and the Western delta about 1,000 square miles on the right margin stretching as far as the Colair lake.

In the Eastern and Western deltas, the Samalkota and Ellore (contour) canals define the limits of irrigation in these deltas to the areas enclosed between them and the river Godavari. They also form the link between Cocanada and Ellore where the Kistna-Ellore canal flowing north from Bezvada meets the Godavari-Ellore canal. The Central delta particularly the "Nagaram" Island is the garden of the Godavari district and is noted for the remarkable Gannavaram aqueduct which was completed in about eight months in the fifties of the last century, a remarkable feat due to Captain Orr. The Polavaram aqueduct at Annampalli is a similar but more recent construction to irrigate Polavaram Island.

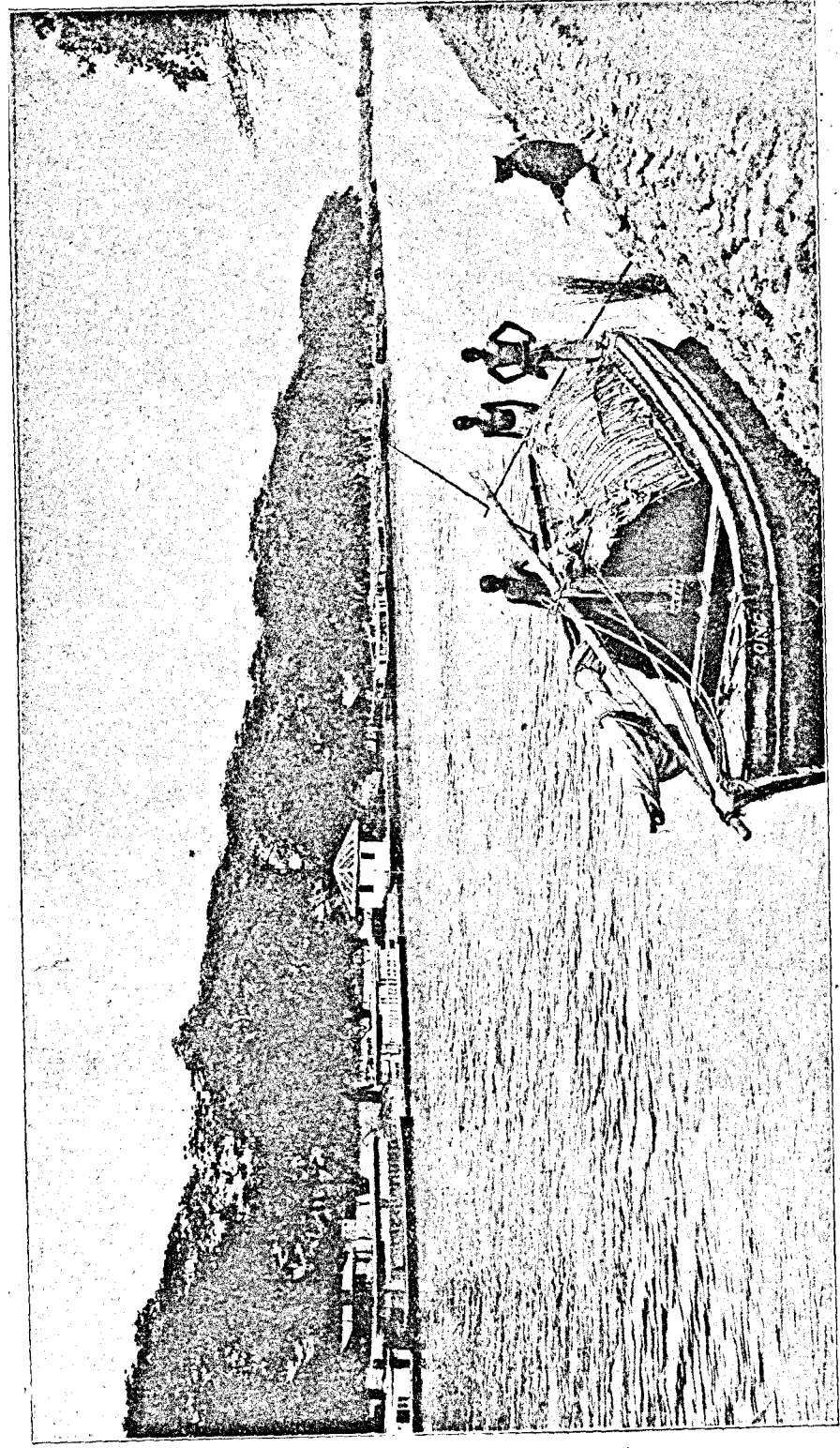
The river and its branches are banked throughout to protect the deltas from the floods.



DOWLAISHWARAM LOCK AND HEADSLUICES FRONT VIEW—GODAVARI DELTA



DOWLAISHVARAM ANICUT AND UNDERSLUICES—GODAVARI DELTA

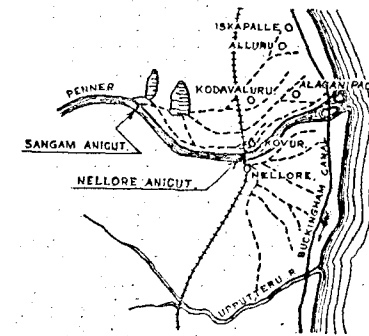


NIDADAVOLE WHARF (WESTERN DELTA)—GODAVARI DELTA

The canal system in all the deltas is navigable throughout and carries annually a traffic valued at nearly 8.8 crores and about Rs. 90 lakhs worth of timber besides transporting about a million passengers.

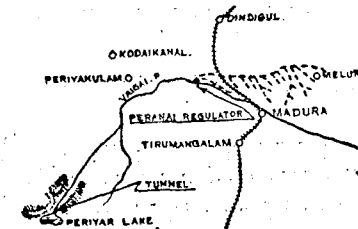
The canals irrigate about eight lakhs of acres but the total area irrigated in a year is over a million acres including two crops and the value of crops grown is over Rs. 5 crores. The system costs about Rs. 1.89 crores and returns about 17 per cent on the outlay.

Pennar river canals system.—The system consists of two anicuts one at Sangam and the other at Nellore. Two canals take off at the Sangam anicut on the left, one to feed the Duvvur tank and other the large Kanigiri tank, one of the largest tanks in the Circars. The channel taking off at right side of the anicut feeds the Nellore tank. At the Nellore anicut, a canal takes off on the right and feeds a number of tanks the largest of which is the Sarvapalli tank. The Sangam anicut has recently been raised by one foot and fitted with two feet falling shutters. The system irrigates about 165,000 acres in Nellore district and costs about Rs. 69 lakhs and returns about 6 per cent on the outlay.



The Shatiatepe anicut system.—The system is a combined tank and canal system served by the Vellar Rajan channel taking off from the Shatiatepe anicut across the Vellar. The anicut is now a bridge regulator fitted with lift shutters. The system irrigates about 34,000 acres in South Arcot district and irrigation extends almost as far east as Cuddalore. Perumal tank is one of the largest tanks and is the terminal tank of the system. The system costs about Rs. 11 lakhs and returns about 7 per cent on the capital.

The Periyar system.—The main feature of the Periyar system is the diversion across the peninsula into the Bay of Bengal of a large river which Nature had ordained should flow into the Arabian Sea. A huge dam across an inaccessible gorge in Travancore about 3,000 feet above the sea, in malaria-ridden jungle forms a picturesque lake set in the hills. A tunnel 5,700 feet long, has been bored through the eastern ranges of the hills to carry the waters of the lake to the plains of Madura. The project is due to the genius of Colonel Pennycuik. The dam is of concrete with a masonry facing on water side about 170 feet high above the river-bed at the deepest point. After it passes the tunnel, water is let into Surulaiyar, a tributary of the Vaigai. After



PERIYAR LAKE VIEW

irrigating about 12,700 acres in the Surulaiyar valley it is again picked up at the Peranai regulator across the Vaigai about 80 miles downstream of the tunnel and flows into the Periyar main canal about 35 miles long. The system irrigates about 133,000 acres in Madura district. The lake has a gross capacity of about 15,700 million cubic feet and a useful capacity of about 9,800 million cubic feet. The system costs about Rs. 108 lakhs and returns about 4.5 per cent on the capital outlay.

The Kistna delta system.—The Kistna rises in the Western Ghats near that sanatorium Mahabaleshwar some 4,000 feet above sea level, and runs southward in a rapid course through Bombay Presidency for some distance before it turns east into Hyderabad and receives the Bhima. Further down the Tungabhadra joins it and the river here strikes the British territory and is for a considerable distance below the boundary between Madras and Hyderabad. The last important tributary to join is the Musi. It then passes through a narrow gorge in the Nallamalais and then opens into the hilly plains of the Coromandel coast.

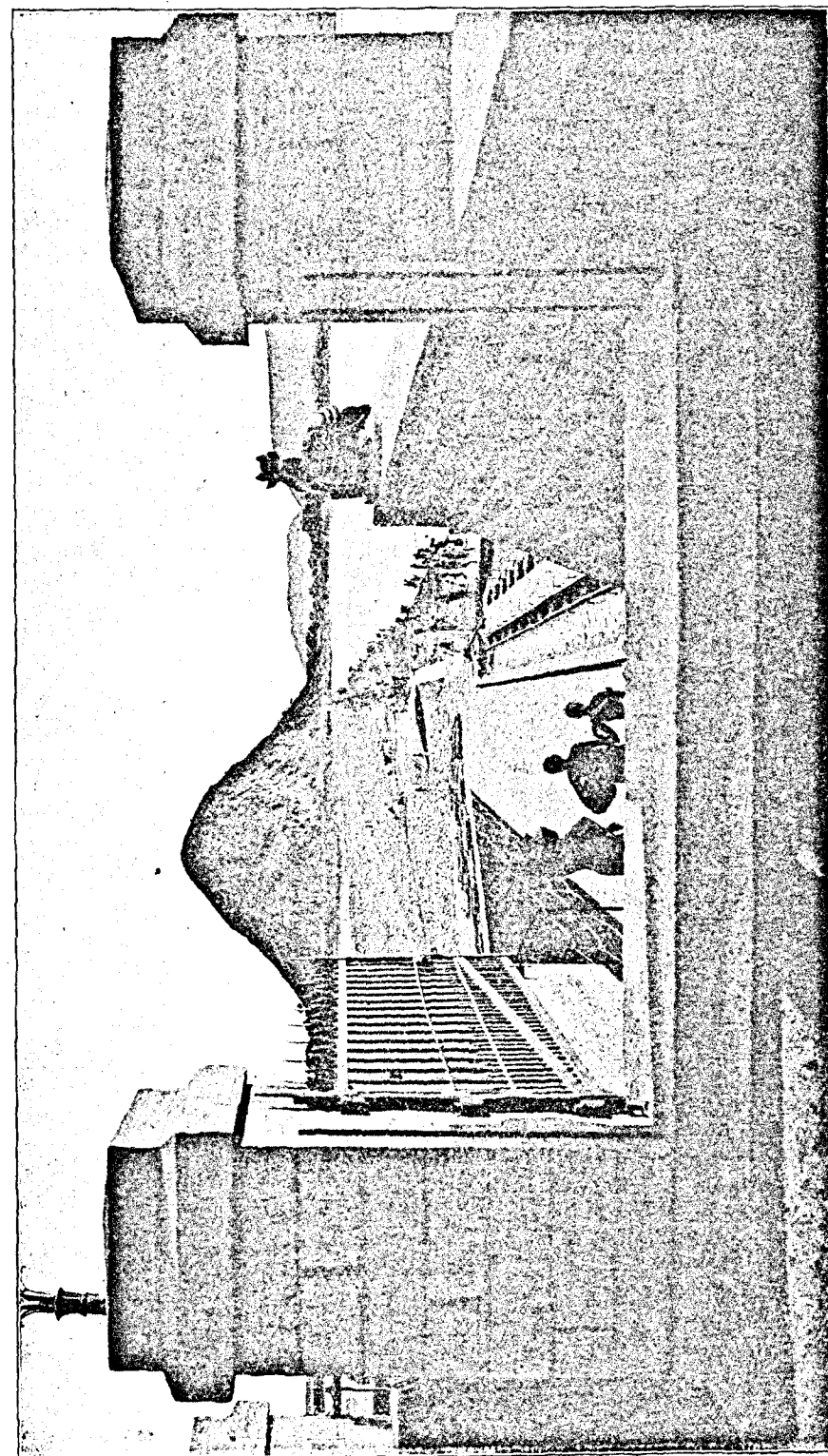
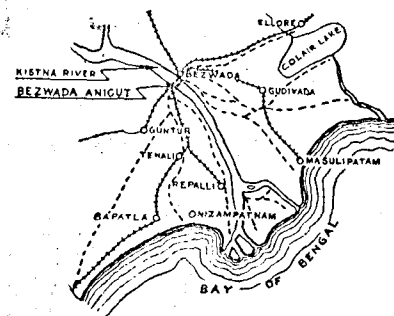
The last of these hills lies at Bezwada where the river flows between two of them hardly six furlongs apart. Stretching away on both sides of the river beyond Bezwada lie the two deltas, the Eastern delta lying on the left side and the Western delta lying on the right. For forty miles below the river runs in a single stream. It then throws out the Puligedda branch. Between this and the river lies the Divi Island. The main river then flows for fifteen miles and splits into three branches before it empties into the sea. The river drains about 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 the Godavari. The success of the Godavari works and the genius of Sir Arthur Cotton was again responsible for an anicut at Bezwada and two canals on the margins of the river.

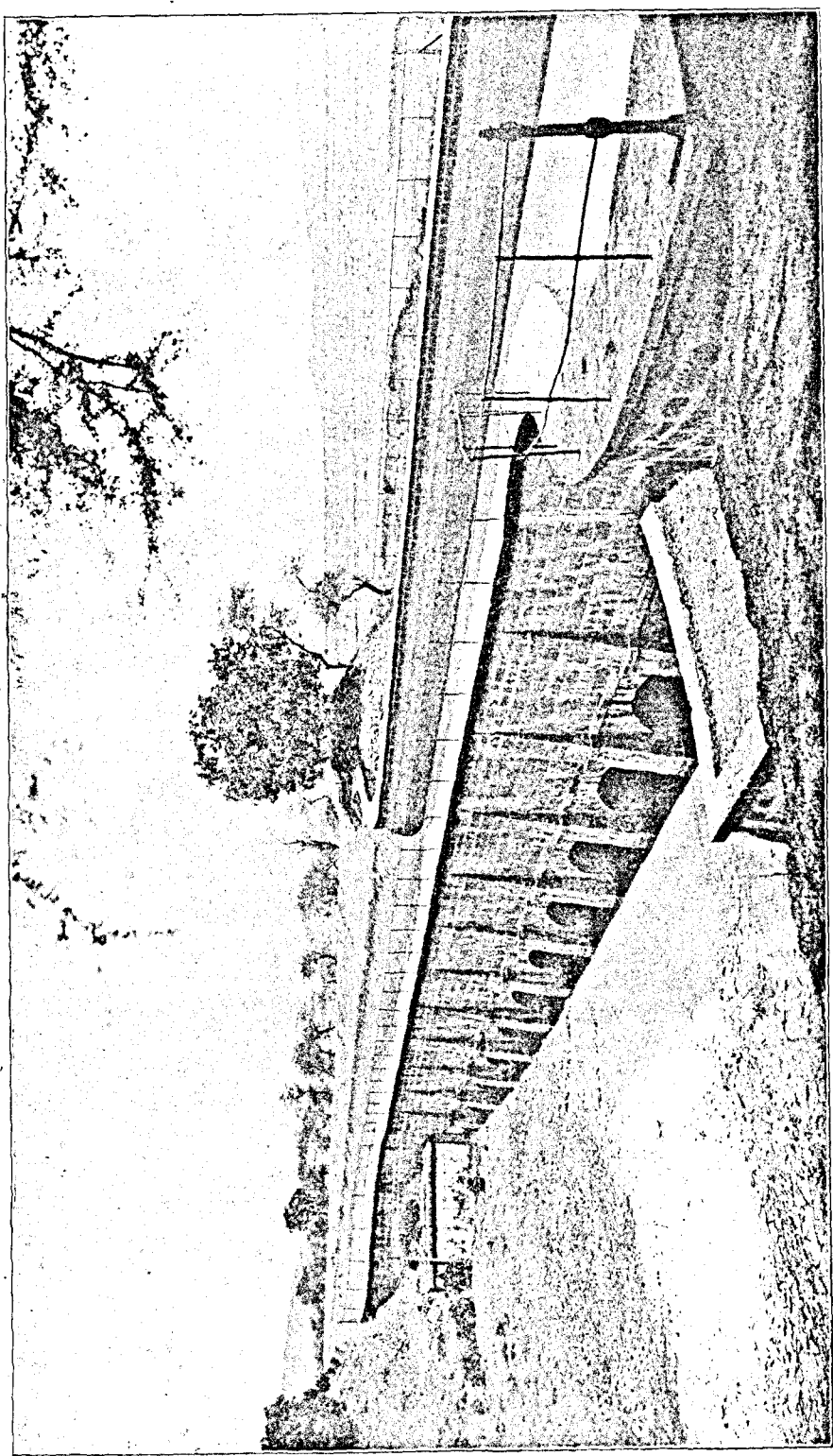
The system consists of an anicut at Bezwada about six furlongs long and two canals. Since the anicut was built, it was raised one foot and fitted with three-foot falling shutters. In 1925, even this anicut was found too low and it was raised another three feet by fitting up six-foot falling shutters, worked in sets hydraulically and a steam plough to lift them.

The headworks consist of an anicut, head and under sluices and a head lock for each of the two deltas.

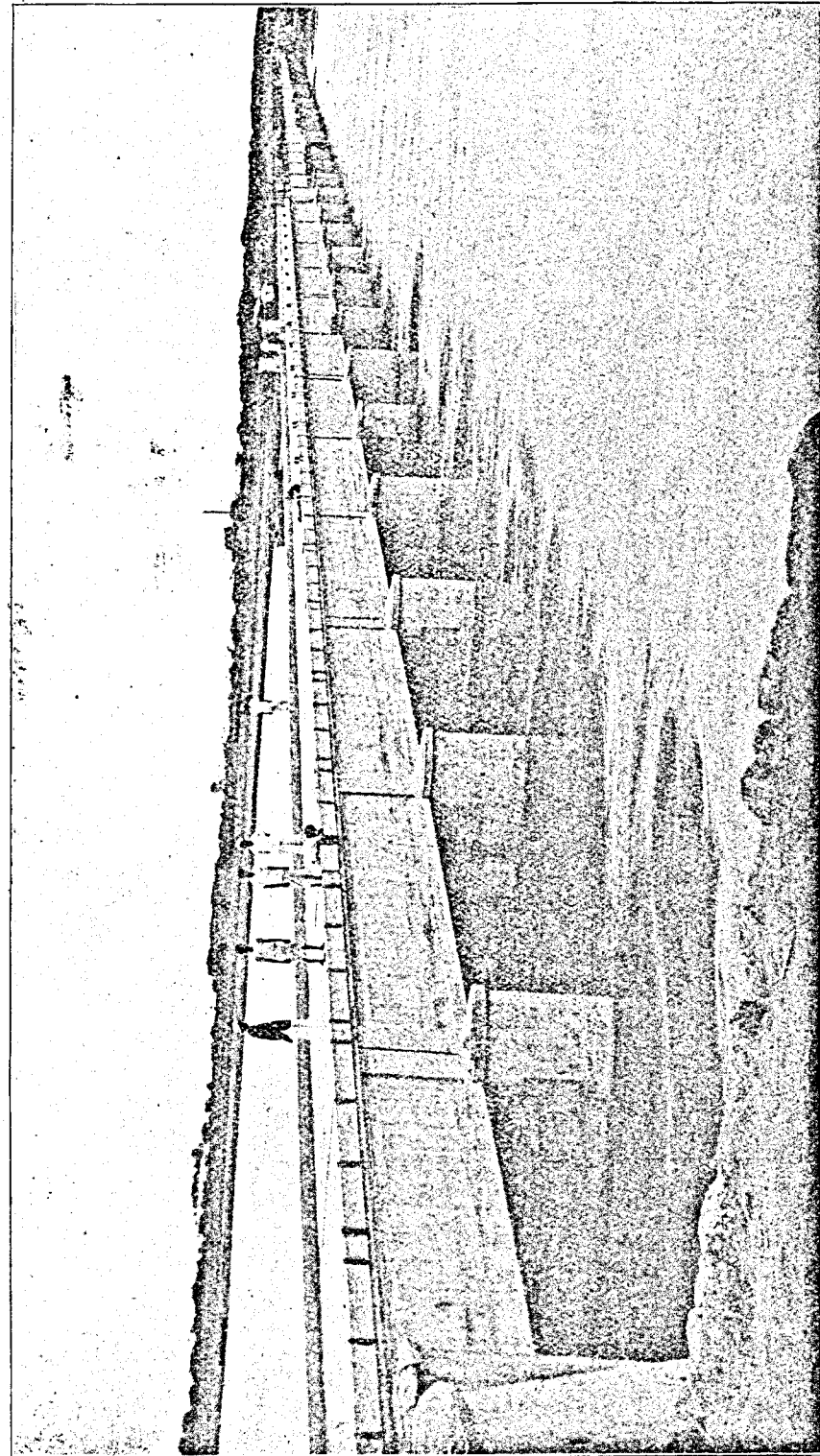
The Eastern delta has an area of about 1,160 square miles and stretches as far north as the Colair. The Western delta is about 950 square miles slightly smaller goes south as far as Peddaganjam. The Kistna-Ellore canal in the Eastern delta connects with the Godavari-Ellore canal in the north and the Commamur canal joins



BEZWADA ANICUT, GATE VIEW—KISTNA DELTA



KESARAPALLI AQUEDUCT—KISTNA DEOTA



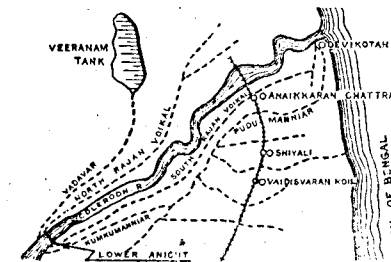
PULIGEDDA AQUEDUCT UPSTREAM SIDE VIEW—KISTNA DELTA

the Buckingham canal in the south. These contour canals and the interior canals form a net work of irrigation and navigation canals affording means of irrigation and transport for the two deltas. The Divi Island was irrigated by Diesel engines and pumps pumping water 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 river and the Divi Island are banked to protect the deltas from the floods.

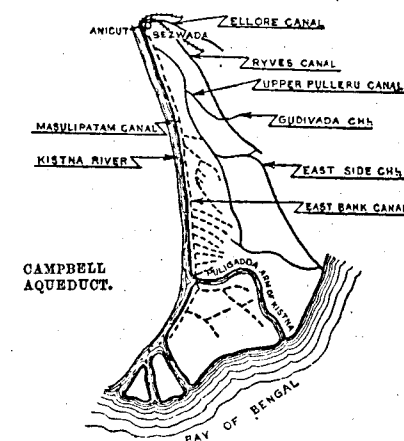
The canals are navigable and carry annually cargo valued at about Rs. 5.1 crores, timber worth about Rs. 25 lakhs and about 2.2 lakhs of passengers. The system irrigates about nine lakhs of acres. It costs about Rs. 2.1 crores and returns about 15 per cent on capital outlay.

Lower Coleroon anicut system.—The system consists of two weirs built across the two branches of the Coleroon constructed about 1840 by Sir Arthur Cotton to replace the system of old river channels having inadequate supplies. Since they were constructed, the crests of the weirs have been lowered and there is now a bridge



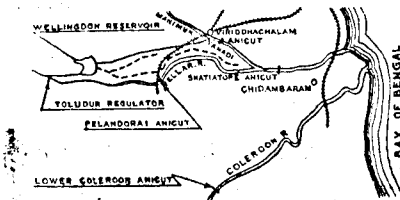
regulator fitted with lift shutters 33 feet span 8 feet high. The Vadavar and North Rajan channels take off on the left side and irrigate lands in Chidambaram in South Arcot district. The Kumukumaniyar and South Rajan channels take off on the right and irrigate lands in Shiyali in Tanjore district. The Vadavar is a contour canal supplying the large Veeranam tank connected with the river Vellar through a sluice at its northern end. The system irrigates about 111,000 acres and costs about Rs. 30 lakhs, returning 4.46 per cent on the capital outlay.

The Kistna East Bank canal system.—The Kistna East Bank canal takes off at about 4/0 of the Masulipatam canal. The canal



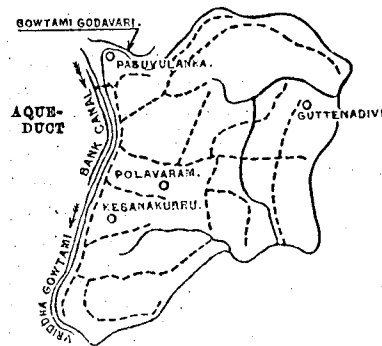
is navigable and runs alongside the river for a considerable distance before it crosses the Puligedda arm of the Kistna river by an aqueduct known as the Campbell aqueduct. The aqueduct is the longest reinforced concrete aqueduct bridge in India and carries a roadway of 16 feet wide and a footpath 4 feet wide. The aqueduct is submerged by high floods. The system irrigates lands in Kistna district, costs about Rs. 56 lakhs, and returns about 5 per cent on the outlay.

Willingdon 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 steel lift shutters across the Vellar at Toludur from which a canal three and a half miles long takes off and feeds the Willingdon reservoir with a



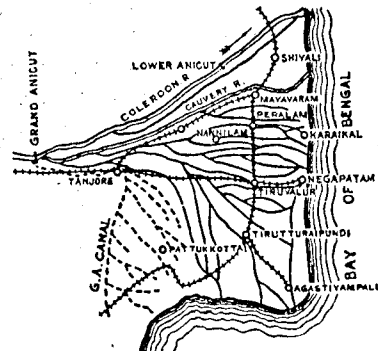
capacity of about 2,400 million cubic feet at Tittagudi. From the reservoir a channel takes off and branches into the high and low channels a short distance below the head to irrigate about 25,000 acres. Irrigation is not fully developed and the system now irrigates about 15,000 acres. Development of the system is being hastened by providing new field channels. The supply channel from Vellar draws water only when surplus is available after meeting the requirements of the older irrigation systems on the Vellar below Toludur. The system costs about Rs. 26 lakhs and returns 1.19 per cent on the outlay.

Polavaram Island system.—The system consists of a canal taking



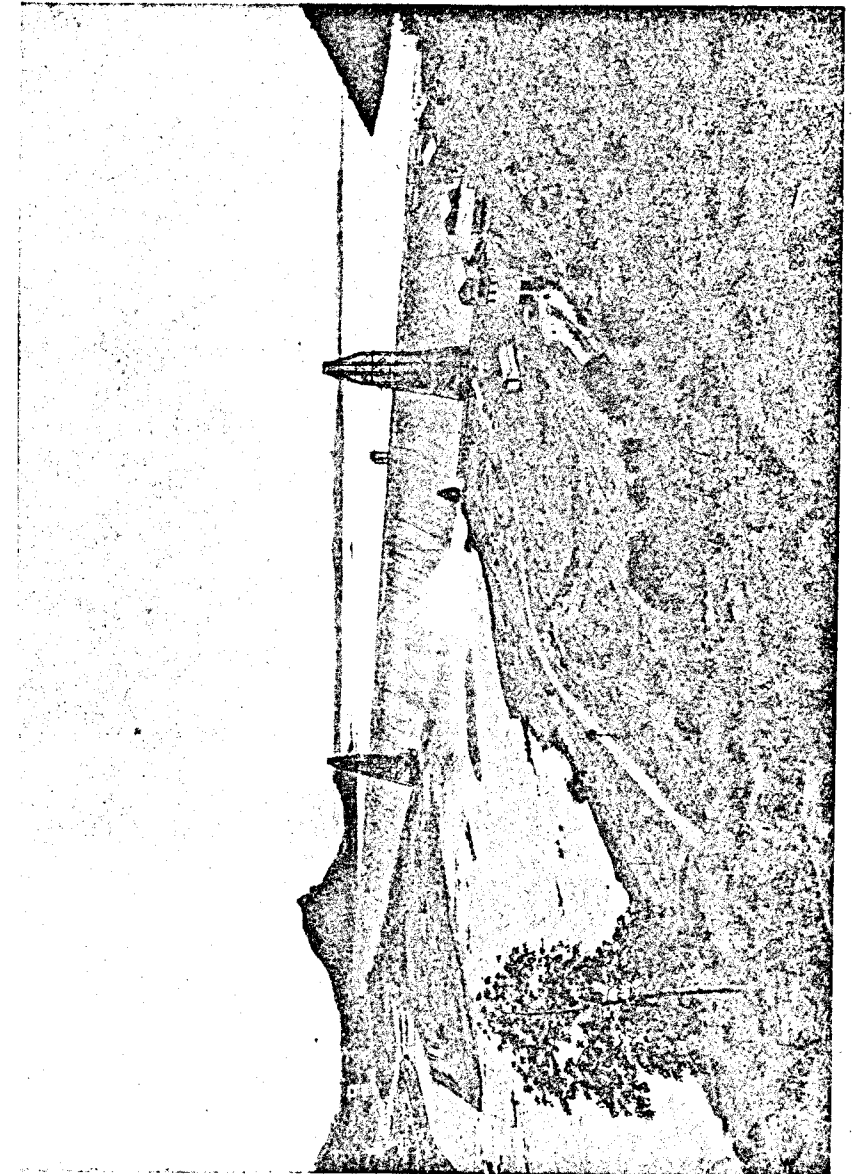
off the Bank canal, Godavari Central Delta, about half a mile above Annampalli lock. The canal crosses the Vriddha Gowtami by a masonry aqueduct and irrigates the Polavaram Island enclosed by the two branches of the Gowtami Godavari. The system irrigates lands in East Godavari district, costs about Rs. 17 lakhs, and returns 4.31 per cent on the capital outlay.

Cauvery-Mettur system.—While the south-west monsoon on the hills is fairly copious and dependable, the north-east monsoon supplies are somewhat 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 the Cauvery water and distributing it evenly throughout the irrigation season.

It is also intended to irrigate 301,000 acres of new land chiefly in the Pattukkottai and Arantangi taluks of the Tanjore district.



CAUVERY-METTUR RESERVOIR AND DAM

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

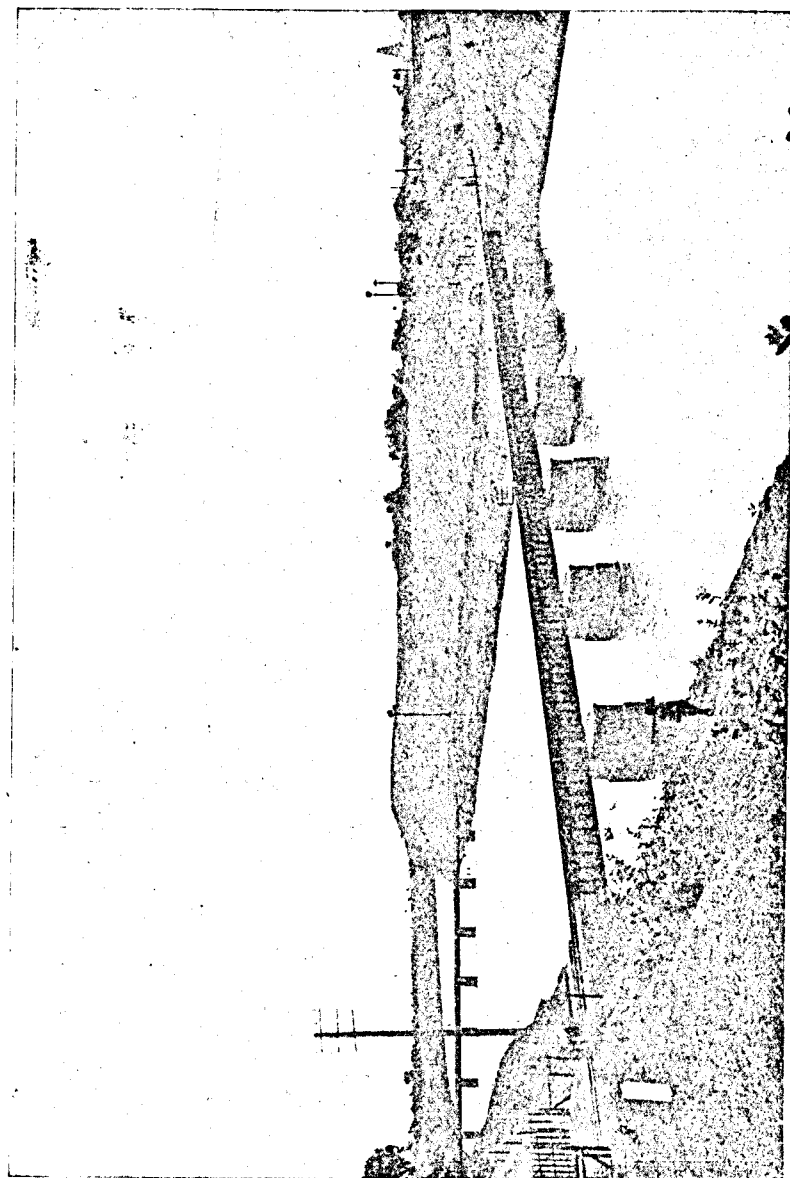
The Stanley reservoir is a lake 60 square miles in area, holding 93,500 million cubic feet of water when full. The lake is formed by a dam across a valley and is a little over a mile long and about 214 feet high at the deepest point. It is almost the biggest dam in the world and costs about Rs. 4.8 crores. About 50,000 h.p. of electric power will be ultimately developed from the fall of over 100 feet available at the dam. 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. The river floods are surplussed over an escape at the Ellis Saddle at the left flank fitted with lift shutters sixty feet long and twenty 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. The dam was built of stone in cement and concrete and has expansion joints and took six years to build.

The Grand Anicut canal is about 120 miles below the reservoir and branches off at Grand Anicut, the headworks of the old Tanjore delta. The canal is a contour canal about seventy miles long and costs about Rs. 200 lakhs. It runs through the 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 1.3 lakhs of acres. The capital outlay is about Rs. 6.6 crores and the present rate of return on capital is about 1.2 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 precarious and troublesome on account of frequent breaches in the korambus and destruction of leading channels by the extraordinary floods of 1924. As the river-bed at head of the South Bank canal had been badly scoured, a bed regulator was constructed there. At five furlongs below its head, the canal divides into the High Level channel and the South Bank channel. The system irrigates about 48,000 acres and costs about Rs. 40 lakhs and returns 1.07 per cent on the outlay.

Kurnool-Cuddapah canal.—The Kurnool-Cuddapah canal takes off from the Tungabhadra from an anicut at Sunkesula about 15 miles upstream of Kurnool. The canal irrigates about 80,000 acres in Kurnool and Cuddapah districts and runs parallel to the river for about fifty miles, when it takes a turn southwards towards Cuddapah



GRAND ANICUT CANAL

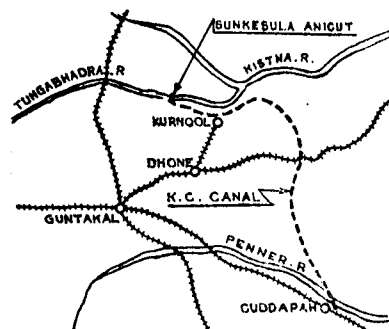
district and pierces the ridge between Pennar and Kistna valleys through a cutting called the Mittakondala cutting. Below this point the Kali and Kundu rivers are used to carry the canal supplies, the canal serving merely as a navigation canal. There are anicuts across the Kundu river at Santhajuttur and at Rajoli at which the canal supplies are again picked up and used for irrigation in the Kurnool-Cuddapah canal and other channels. At about mile 180 at Adinimayapalli the canal crosses the Pennar 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 irrigation 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 navigation in the canal below mile 74/0 Lockinsula was closed, as there was little boat traffic, and costly replacement of a number of lock gates below Lockinsula was found necessary.

The canal costs about Rs. 234 lakhs and returns about 0.73 per cent on outlay. It is the most expensive project (excluding Cauvery-Mettur Project) in Madras.

Barur tank system.—The system consists of a tank in Salem district originally commenced as a famine-relief work and completed in 1899. The tank is fed by a channel from a weir across the Ponnai and has a capacity of about 300 million cubic feet. It feeds a number of small tanks and irrigates about 4,500 acres. It costs about Rs. 5 lakhs and returns about 0.45 per cent on the outlay.

Nagavalli river system.—At Tottapalli in Vizagapatam district a regulator has been built across the Nagavalli river and a channel about 22 miles long has been dug. It crosses Ottigadda at about six miles, and irrigates a tract subject to a precarious rainfall. Water can be diverted into the channel only in certain seasons of the year. The system irrigates about 27,000 acres and costs about Rs. 18 lakhs, returning about 2 per cent on the outlay.

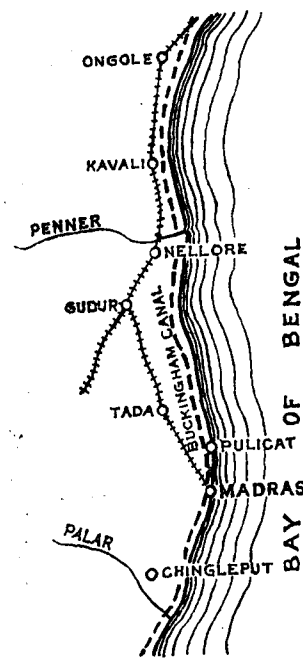
Bhavanasi project.—The project consists of a lake formed by an earthen dam about 2,500 feet long and 30 feet high across the



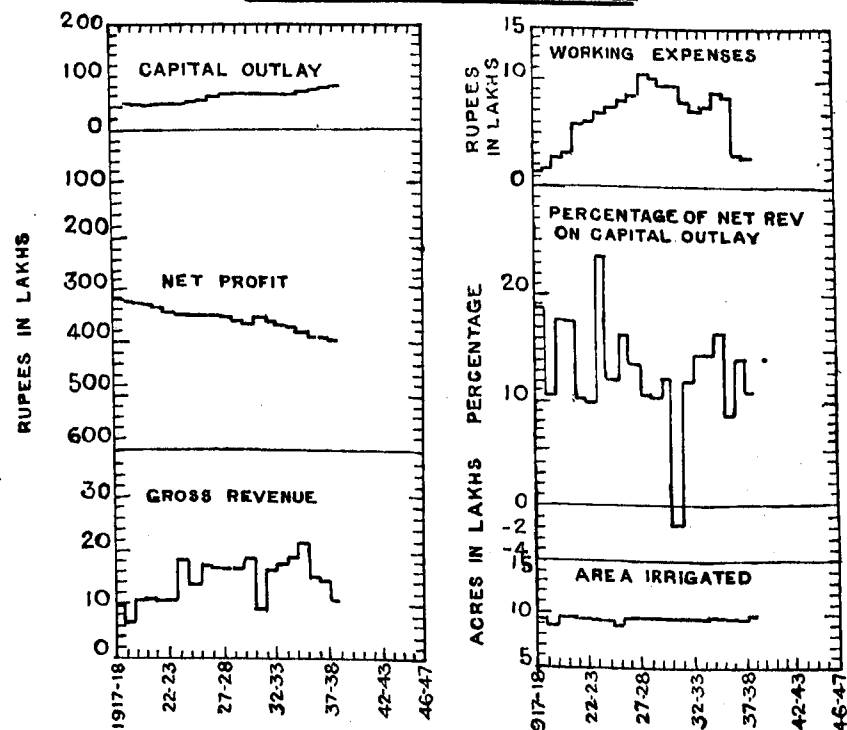
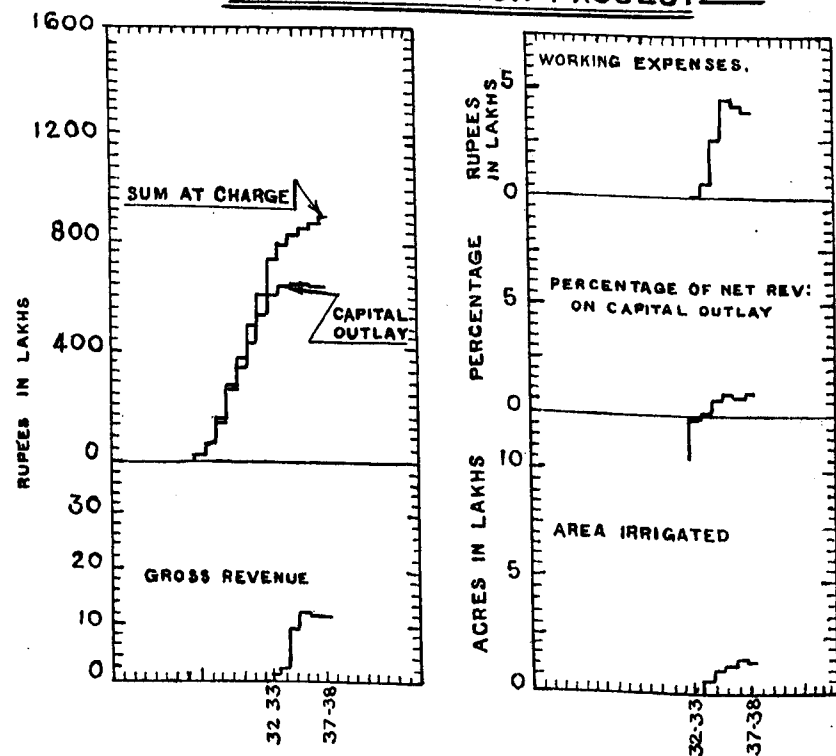
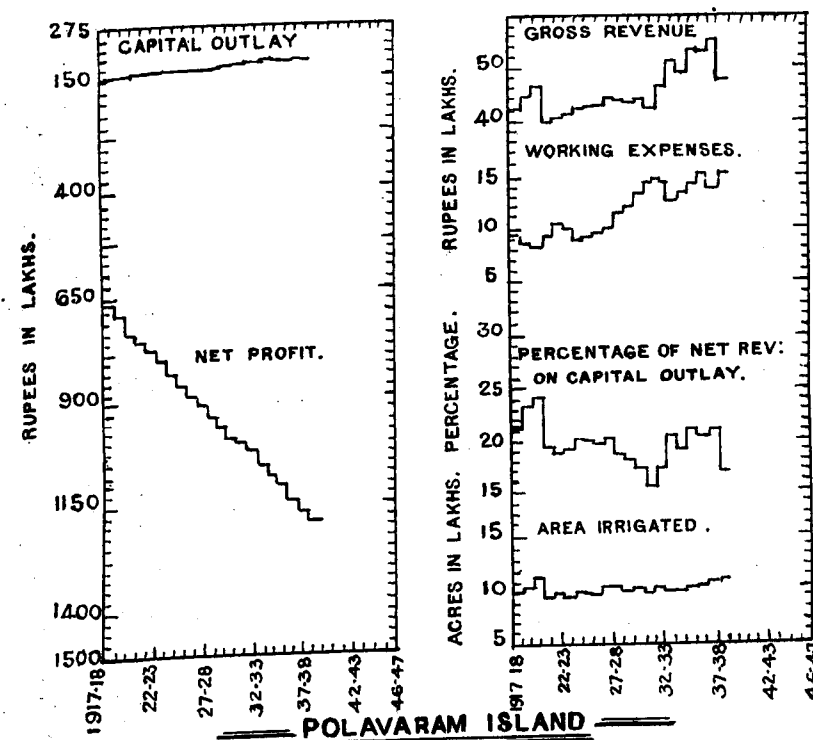
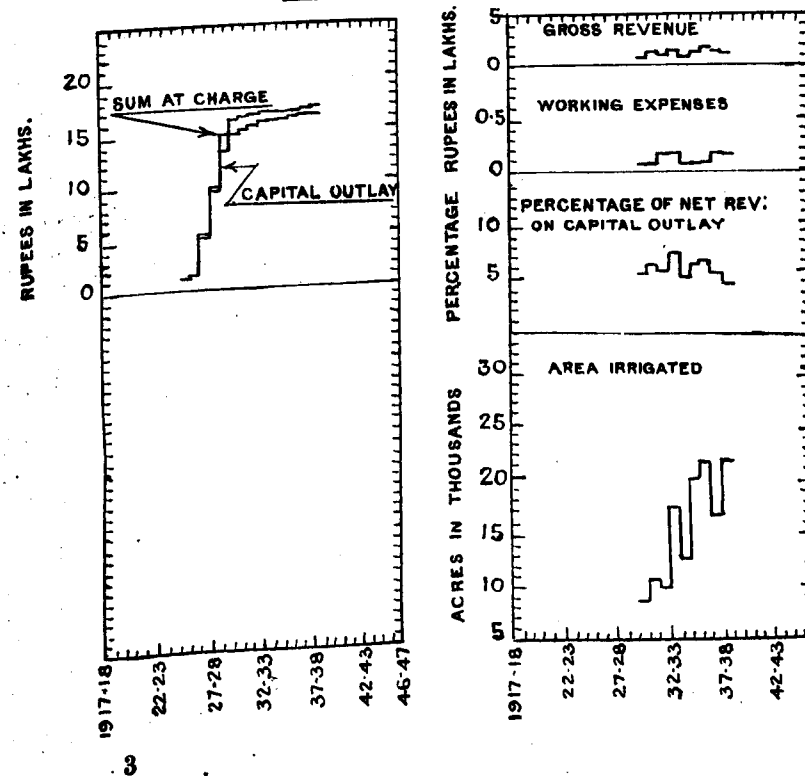
Bhavanasi river in Guntur district with a capacity of about 175 million cubic feet. The reservoir irrigates about 540 acres. It costs about Rs. 3 lakhs and returns about 1.19 per cent on the outlay.

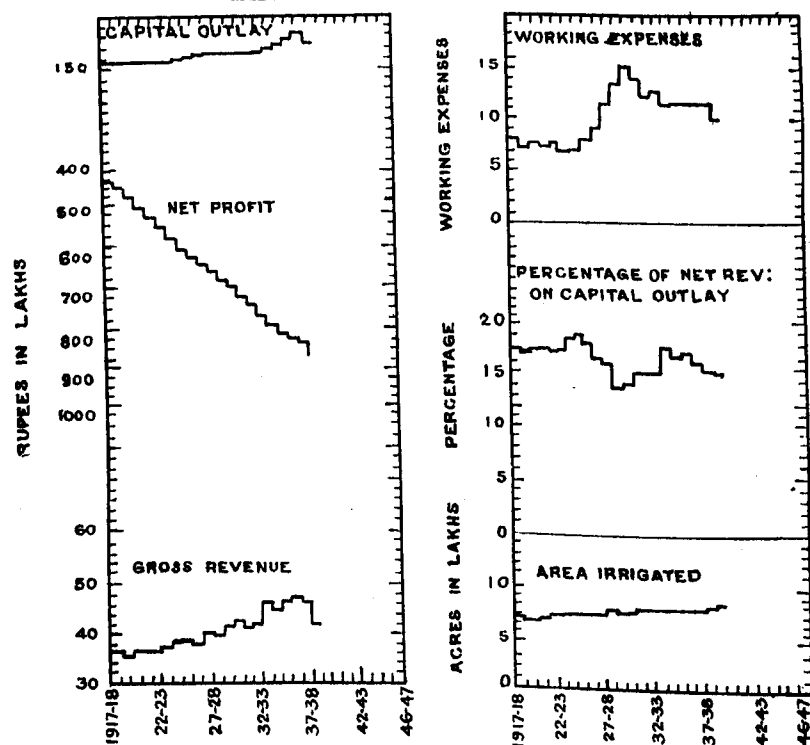
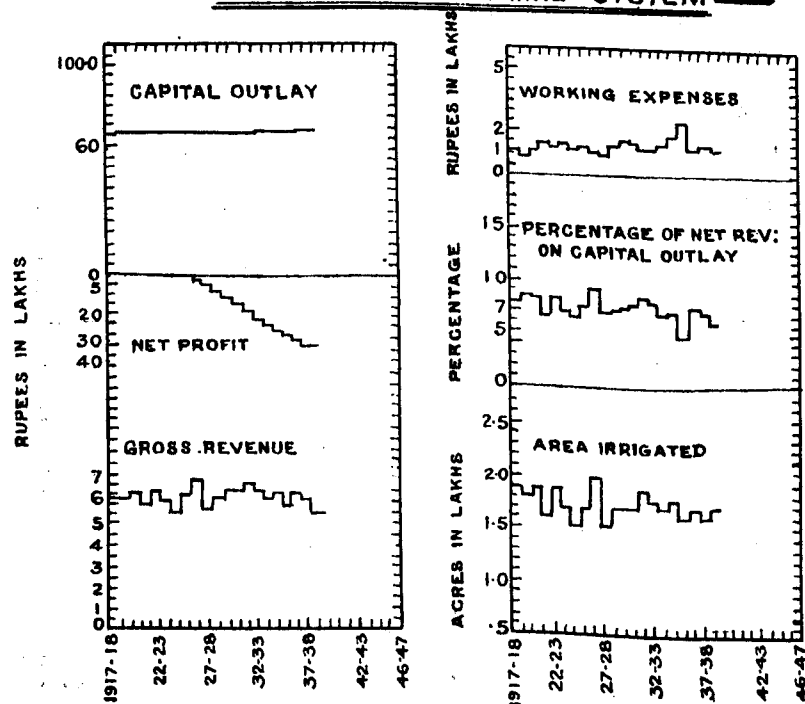
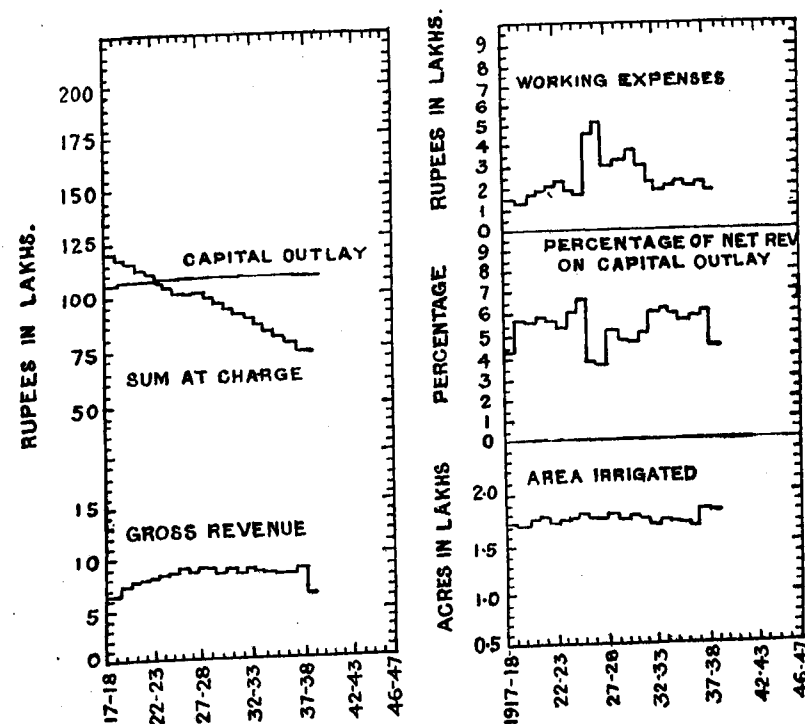
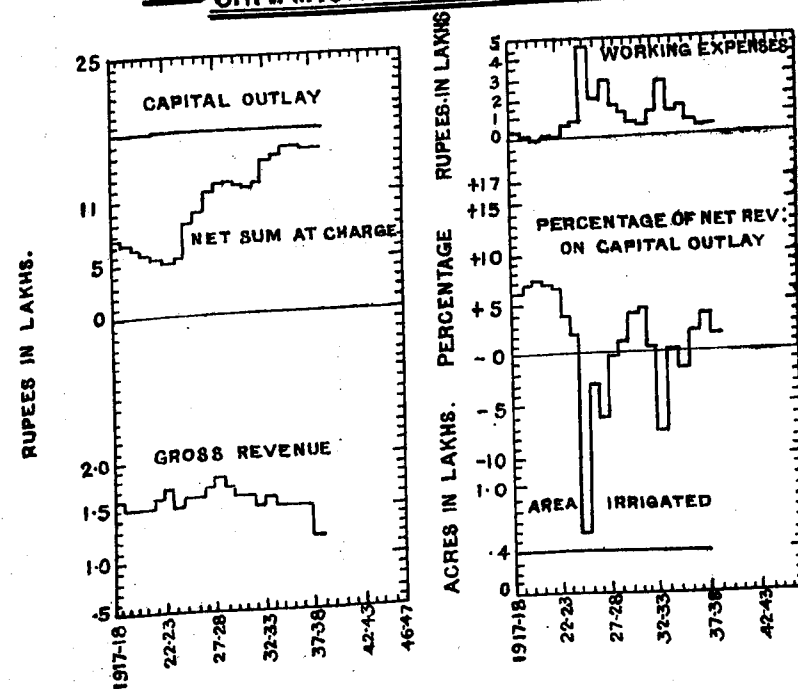
Mopad system.—The Mopad project consists of a reservoir with an earthen dam about seventy feet high at the deepest point and more than a mile long, built across the Manneru river in Nellore district. The reservoir has a capacity of about 2,100 million cubic feet and irrigates lands in a tract where famines are frequent. The tank was originally intended to irrigate a large area but owing to failure of supplies its present ayacut has been fixed at about 7,000 acres. Actual irrigation is about 4,800 acres. The system costs about Rs. 23 lakhs and returns 1.28 per cent on the outlay.

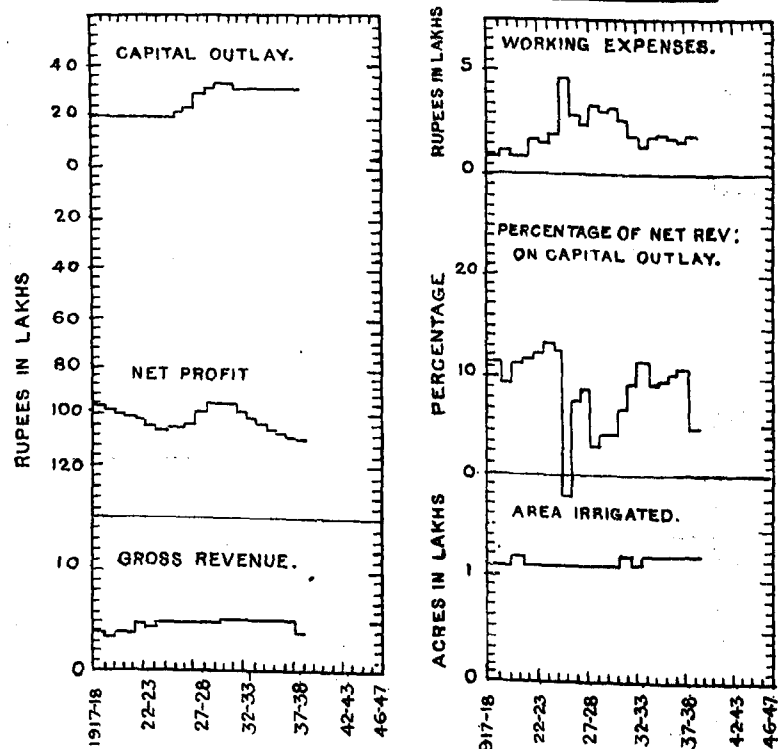
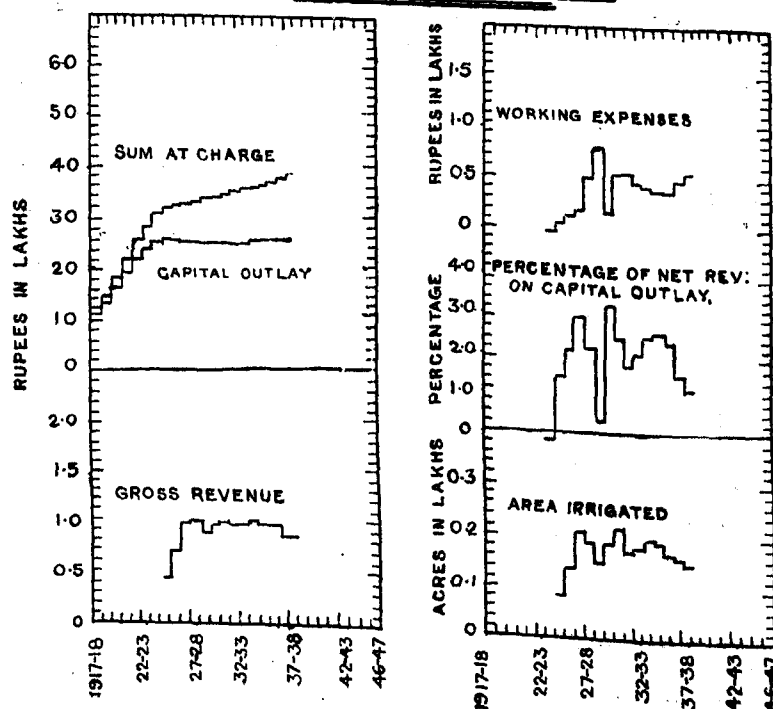
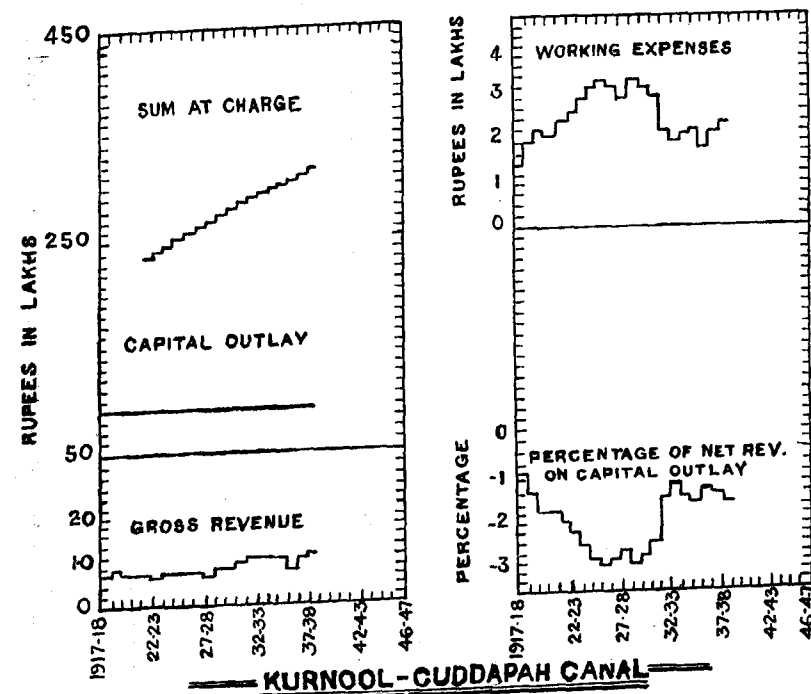
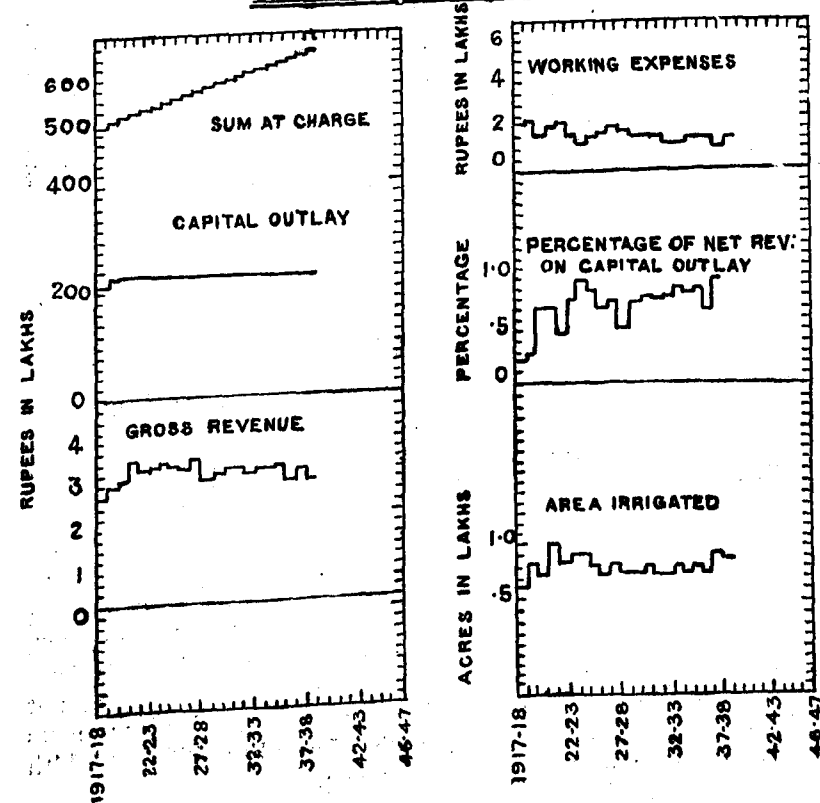
The Buckingham canal.—The Buckingham canal is a canal used entirely for navigation. It runs through Madras parallel and close to the Coromandel coast, joining up a series of natural backwaters and connects all the coastal districts with Guntur and South Arcot at the ends. The canal is 196 miles long 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 a 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 with an estimated value of about Rs. 98 lakhs and about 100,000 passengers every year. The canal costs about Rs. 91 lakhs and returns—1.61 per cent on the capital outlay.

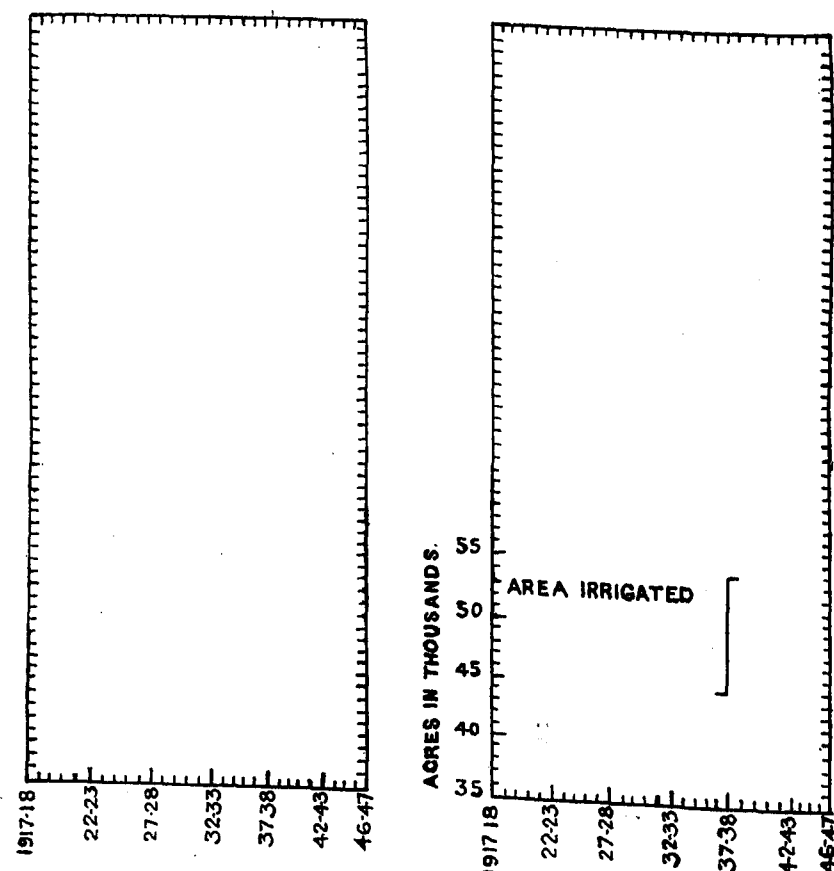


The diagrams on pages 16-22 show the financial record of important irrigation systems.

FINANCIAL RECORDCAUVERY DELTA SYSTEMCAUVERY METTUR PROJECTFINANCIAL RECORDGODAVARI DELTA SYSTEMPOLAVARAM ISLAND

FINANCIAL RECORD**KISTNA DELTA SYSTEM****PENNER RIVER CANAL SYSTEM****FINANCIAL RECORD****PERIYAR SYSTEM****SRIVAIKUNTAM ANICUT SYSTEM**

FINANCIAL RECORD**LOWER COLEROON ANICUT SYSTEM****TOLUDUR PROJECT****FINANCIAL RECORD****BUCKINGHAM CANAL****KURNOOL-GUDDAPAH CANAL**

FINANCIAL RECORD**EAST BANK CANAL****Chapter III.****SALIENT FEATURES OF THE ADMINISTRATION OF P.W.D. IRRIGATION FOR THE YEAR 1938.**

The summary in this chapter is as usual intended to bring the general information up to the end of the calendar year 1938.

Cauvery-Mettur system.—The reservoir was opened as usual for irrigation on 9th June 1938 with a level of 90.25. It rose to the maximum of 119.85 on 26th August 1938, and fell to 61.00 on 21st December 1938 against 103.75 on the corresponding date in 1937. The reservoir again proved its usefulness by saving Tanjore, Trichinopoly and Salem districts from severe drought on account of the complete failure of the north-east monsoon. Earth tremours were felt on 1st January 1938, 25th November 1938 and 14th December 1938, but there was no damage.

Industrial development.—Mettur Industries, Ltd., have started work and about 400 hands are employed in the mills.

Canal system.—Areas under first crop (to end of September) under Vadavar and Grand Anicut canals were 15,090 and 45,760 acres against the forecast of 37,670 and 132,730 acres respectively. Areas under second crop (to end of September) were 302 and 1,004 acres against the forecast of 20,000 and 25,000 acres respectively.

Godavari Delta system.—The year began as usual with good supplies for second crop but from March onwards there was scarcity and turns had to be arranged. The first-crop season began well with very early freshes and the season was good with every promise of a bumper harvest until a devastating cyclone occurred on 25th November 1938 which affected badly the standing crops.

The special staff investigating and fixing standards for all important drains in the Godavari delta, commenced work. The Anumunilanka Reservoir project and a pumping scheme to irrigate high lands at the head of the Godavari Western delta were under investigation.

Vizagapatam division.—A severe cyclone occurred on 10th October 1938 near Gopalpur, and though the rainfall was not very heavy, Vamsadara, Bahuda and Nagavalli rivers were in heavy floods and some of the irrigation works were damaged. Floods in the Nagavalli river rose to 19.5 feet (11th October 1938) over the Thotapalli regulator, but there was no damage. This flood was the second highest after construction of the headworks, the highest recorded being 20.7 feet in 1911. Owing to heavy floods in Swarnamukhi river, the Sekharapalli channel got badly sanded up for about 6 furlongs from its head. The channel was cleared in time to save a large area of standing crops.

Kistna Delta system.—Owing to heavy rains there were floods in the Budameru in August 1938 and in the region of the Collair and the Uppateru in September 1938. The floods in the Budameru damaged some lands adjoining the drain. The drains emptying into the Collair lake were held up by the rising lake and large areas were under submersion till about the middle of October 1938. Later in November came the cyclone which laid low a large area of standing crops and damaged them seriously. Early in October 1938 the Tammileru and Mondicodu drains were also in high floods which breached the banks in several places, submerged large areas and affected crops.

Owing to heavy rains in September 1938 in Kistna Western delta the upland drainage entering the Commamur canal breached the fifth reach of the canal and stopped navigation for twenty days. As the breaches were closed in time the standing crops did not suffer.

The curtain wall in front of the headsluice, Kistna Eastern delta, was completed. Improvements to Bezwada undersluices were in progress. The cyclone of November 1938 damaged the flood banks of the East Bank canal near the sea.

Penner river canals system.—The falling shutters fitted to the Sangam anicut were effective and improved the supplies to the Kanigiri reservoir. The reservoir surplussed thrice during the year due to heavy rains and frequent floods in the river.

Tungabhadra project.—There was a conference of Hyderabad and Madras Governments in Madras in November 1938 over the Tungabhadra question.

Lower Bhavani project.—Government have sanctioned the detailed investigation of this project and have also ordered a re-examination of the Upper Bhavani project.

Cauvery Delta system.—The Mettur reservoir was opened on 9th June. The date of opening was advanced by three days to enable rivers and tanks to fill before opening the sluices for irrigation. The irrigation season began well with an early monsoon and there were floods for about two days in August 1938. The north-east monsoon was almost a complete failure and the rainfall much below average. This necessitated heavy and continuous supplies from the reservoir. But for the reservoir, cultivation would have been delayed in June and later crops would have failed almost completely.

Periyar system.—The south-west monsoon was weak and the north-east was almost a complete failure. The lake was very low. The maximum level was 129.36 in November which was about 16 feet lower than the maximum for 1937 and 23 feet lower than the maximum for 1936. Many tanks in the Periyar delta and the Cumbum valley dried up and added considerably to the difficulty in the distribution of water.

Floods.—Owing to abnormally heavy rains in July and August in Salem district, almost all the tanks filled and a few tanks were also badly damaged. Repair works were in progress.

Cauvery gauging.—In accordance with the rules of regulation of Krishnarajsagara, cross-sections of the rivers at the three standard stations were taken during June and October, and gaugings were done jointly at Chunchinkatta on the Cauvery. In connexion with the Mysore proposals for a reservoir on the Hemavathi near Gorur, joint gaugings of the river at Gorur and at Sriramdevar dam were continued during the year. Sluice co-efficient observations were continued for higher reservoir levels, and the results are being worked out.

Chapter IV.

PERSONNEL, CLASSIFICATION OF WORKS—FINANCIAL RESULTS.

F. M. Dowley, Esq., continued as Chief Engineer for Irrigation and Sri Rao Bahadur A. R. Venkata Acharya 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. 1,03,78,516 against Rs. 1,15,15,985 in 1936-37. The total revenue realized was Rs. 2,86,05,732 against Rs. 3,23,94,323 in the previous year. The area charged as irrigated was 7,565,066 acres against 7,327,551 acres in the previous year. The net revenue after deducting working expenses was Rs. 1,41,44,012 against Rs. 1,70,62,466 in the previous year. The expenditure figures include indirect charges. If direct charges alone are considered, the expenditure during the year was Rs. 95.86 lakhs against the budget allotment of Rs. 119.12 lakhs. The total area in the Presidency during 1937-38 under the chief food-grains and industrial crops, both irrigated and dry, was 36,917,936 acres or 320,524 acres more than in the previous year. The area irrigated by Government irrigation works was 7,565,066 acres or 20.49 per cent of the total cropped area. This area was 237,515 acres more than in 1936-37. The increase was due to the favourable season and development of irrigation under new systems.

4. *Financial results*—(i) *Productive works.*—The capital outlay during the year was Rs. 7,26,779 and to the end of the year Rs. 15,48,62,224. The area charged as irrigated was 4,097,829 acres and the estimated value of crops raised was Rs. 20,73,02,968. The net revenue derived was Rs. 98,32,798 representing a return of 6.86 per cent on the capital outlay. The accumulated profits to the end of the year amounted to Rs. 81.15 crores.

(ii) *Unproductive works*.—The capital outlay during the year was Rs. 1,96,938 and to the end of the year Rs. 3,86,48,997. The area charged as irrigated was 306,000 acres and the estimated value of crops raised was Rs. 1,24,84,239. The net revenue derived was Rs. 4,65,805 representing a return of 1.21 per cent on the capital outlay.

(iii) *Minor works for which capital and revenue accounts are not kept*—(a) *Irrigation works*.—There are 34,346 works in this class against about 34,300 works in 1936-37. The outlay on them during the year was Rs. 34,83,874. The revenue realized was Rs. 81,60,678. The area charged as irrigated was 3,161,237 acres.

(b) *Navigation, etc., works*.—The outlay incurred was Rs. 8,81,069 and the revenue derived was Rs. 83,954.

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 the main and branch canals at the end of the year was 3,937 miles. Of this length, 911½ miles were for irrigation and navigation combined and the remainder for irrigation. The length of distributaries was 10,129½ miles.

(3) The capital outlay (direct and indirect) during the year was Rs. 7,26,779 against Rs. 18,63,264 in the previous year. The bulk of the expenditure was incurred on the Kistna East Bank Canal scheme, the Kistna and the Cauvery Delta systems. Details of works carried out are given in Chapter V.

(4) The total area charged as irrigated was 3,498,952 acres first crop and 598,877 acres second crop against 3,441,738 acres and 564,347 acres respectively, in 1936-37. The increase under both the crops occurred mainly in the Godavari, and the Cauvery Delta systems.

(5) The gross working expenses of the year was Rs. 54,33,787 against Rs. 54,44,680 in the previous year.

(6) The gross revenue of the year was Rs. 1,91,49,499 against Rs. 2,19,66,170 in 1936-37. The fall in revenue in the case of most of the systems was due to the grant of land revenue concessions during the year (cancellation of percentage enhancements, remission, etc., in fasli 1347). The maximum decrease occurred in the Godavari and Cauvery deltas.

(7) The net revenue derived and the net profits after deducting interest charges amounted to Rs. 98,32,798 and Rupees 34,19,226 against Rs. 1,19,54,740 and Rs. 57,53,006 respectively, in the previous year. The net profit works to 2.21 per cent on the total capital outlay of Rs. 15,46,62,224 against 7.05 per cent 25 years ago, i.e., in 1912-13. The fall in profits was due

chiefly to the large outlay on the Cauvery-Mettur Project which has recently commenced to function and to the land revenue concessions referred to in the previous paragraph.

(8) The estimated value of irrigated crops raised during the year amounted to Rs. 20,73,02,968 against Rs. 19,23,99,475 in the previous year.

(9) The average revenue per acre amounted to Rs. 4.67 on the gross area and Rs. 5.62 on new irrigation. The working expenses per acre were Rs. 1.33 on the gross area, and Rs. 1.75 on new irrigation.

(10) The remissions granted during the year amounted to Rs. 34,90,348 against Rs. 2,81,758 in the previous year. The areas affected were mainly in the Godavari, the Kistna and Cauvery deltas and Periyar system. Land revenue concessions were responsible for large remissions during the year.

6. *Irrigation works—Unproductive works*.—(1) There were 28 works of this class as in 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. 1,96,938 against Rs. 68,023 in 1936-37. The bulk of the expenditure was on the Thippayapalem Project and Nagavalli river system.

(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 675½ miles.

(4) The area irrigated during the year was 306,000 acres against 277,627 acres in 1936-37. The increase in area occurs mainly under the Palar Anicut system.

(5) The gross working expenses amounted to Rs. 4,11,080 against Rs. 3,85,912 in the previous year.

(6) The gross revenue amounted to Rs. 11,05,350 against Rs. 10,36,565 in 1936-37.

(7) The net revenue due to improvements was Rs. 4,65,805 against Rs. 4,21,170 in the previous year. This represents a return of 1.21 per cent on the capital outlay of Rs. 3,86,48,997 to the end of the year. The net revenue fell short of the interest charges by Rs. 11,71,889 of which Rs. 8,43,482 pertained to the Kurnool-Cuddapah canal. This deficit represents 3.03 per cent on the capital outlay.

(8) The estimated value of crops amounted to Rs. 1,24,84,239 against Rs. 1,08,14,606 in the previous year.

(9) The average revenue per acre amounted to Rs. 3.61 on the gross area and Rs. 4.49 on the new irrigation. The working expenses per acre were Rs. 1.34 on the gross area and Rs. 2.04 on new irrigation.

(10) The remissions granted during the year amounted to Rs. 1,34,729 against Rs. 1,01,802 in the previous year. The area affected was mainly under the Nagavalli river, Kurnool-Cuddapah canal and Palar Anicut systems.

7. *B. Navigation, Embankment and Drainage works—Unproductive.*—There were two works of this class, viz., the Buckingham canal and the Vedaranniyam canal, the total length being 297½ miles. The gross receipts amounted to Rs. 1,06,251 and the charges to Rs. 2,59,034 against Rs. 1,10,690 and Rs. 2,37,653 respectively in the previous year. There was thus a loss of Rupees 1,52,783 on the working of these canals, against a loss of Rupees 1,26,963 in 1936-37. The value of goods carried during the year was Rs. 1,15,27,329.

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 Vedaranniyam 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. 4.65 lakhs showing a decrease of Rs. 0.52 lakh over the figure of the previous year. The decrease was due mainly to less receipts from Government boats and steamers in Godavari canals and to fall of annual licence fees in 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 1936-37 and the average of the previous triennium :—

	Outlay incurred.	Area irrigated.	Gross revenue.
	RS.	ACS.	RS.
During 1937-38	34,83,874	3,161,237	81,60,678
During 1936-37	36,18,647	3,043,889	92,02,179
Average of the triennium ending 1936-37.	34,98,942	3,135,807	89,89,155

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

10. *Tank Restoration Scheme works.*—(1) The total area coming within the scope of Tank Restoration Scheme investigation is 102,500 square miles. The area of minor basins on which work had been commenced or completed at the beginning of the year was 94,660 square miles, of which 88,887 square miles had already been investigated. During the year under review,

there was no investigation. In the area investigated, works were completed in 85,496 square miles and in the remaining area of 3,391 square miles, they were in progress or still to be started.

About 86.72 per cent of the total area of 102,500 square miles affected by the scheme was investigated up to 31st March 1938, leaving on that date, a balance of 13,613 square miles. The estimates sanctioned during the year amounted to Rs. 13,866 against Rs. 20,275 in the previous year. The Tank Restoration divisions and subdivisions abolished as a measure of retrenchment in 1931 have not been revived.

(2) The total amount of estimates sanctioned from the commencement of Tank Restoration Scheme operations up to the end of the year was Rs. 2,02,70,866 nearly, against which the total expenditure incurred was Rs. 1,70,95,855 exclusive of charges for establishment and tools and plant. The expenditure during the year amounted to Rs. 18,338.

11. *Works for which capital and revenue accounts are not kept—Navigation, Embankment and Drainage works.*—The outlay incurred 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 1937-38	8,81,069	83,954
During 1936-37	9,47,902	78,719
Average of the triennium ending 1936-37.	9,11,899	82,523

12. *Projects under consideration.*—To relieve submersion due to floods in the Coringa river two alternative proposals, viz., to build a vented cross-bund and lock at Tallarevu and to build a lock and regulator at Yanam were under consideration. Particulars were being collected to decide on the most suitable scheme.

In November 1937, Government ordered re-examination of the Coringa Island Project. As the Collector was of opinion that only about 60 per cent of the area under the project would be brought under wet cultivation in ten years, a smaller scheme to irrigate 7,500 acres was under consideration.

A pumping scheme to irrigate about 3,750 acres of high level lands at the head of the Godavari Central delta was investigated. Report on the financial aspect of the scheme was awaited from the Collector. A scheme to irrigate about 4,000 acres in Kanur and the area lying between Nidadavole-Narasapur road, etc., by taking off a channel between Vizeswaram head sluice and under-sluices was recommended by the Collector. Plans and estimates were submitted to Government through Irrigation Development Board.

The Terrigedda draining 354 square miles, falls into the Godavari through a cut in the left bank, 11½ miles above Dowlaishwaram anicut. Through this cut, Godavari water backs up during

floods and submerges the crops. To prevent this, a drainage sluice was built about 1872. It was damaged by the floods of 1878. A new sluice was again built in 1886, and this work was also damaged in the floods of August 1886. The question of reconstructing the sluice was considered and finally dropped in 1922. On a representation made to the Hon'ble Minister for Public Works Department the scheme was again taken up for consideration. An estimate for Rs. 75,000 for reconstructing the outfall sluice was submitted to Government in December 1937. The proposal was put up for consideration as a Part II Scheme for 1939-40.

A pumping scheme to irrigate 7,500 acres of high level lands at head of Godavari Western delta was examined. Preliminary proposals were framed and were under consideration.

Localization of second-crop zones in the Godavari Eastern and Central deltas was completed and a report sent to the Board of Revenue.

For Gundlakamma Project the river was gauged with current meters at Tangirala and Jammalamadaka till the end of December 1937. The discharges were being computed.

Final report on the results of gauging the Pillaiperu to augment the supply in Mopad channel was awaited.

Preliminary investigation of the scheme to build a reservoir on the Manneru about twenty miles downstream of the Mopad reservoir to irrigate 11,000 acres between the Manneru and the Uputeru was completed and a report sent to Government through the Board of Revenue.

The question of sharing the Tungabhadra waters was under consideration.

All the buildings for the Experimental farm at Siruguppa were built. Experiments on cotton, cholam and some fodder crops were in progress. The idea was gradually to enlarge the scope of the experiments to determine the most suitable and paying crops for the soil.

Papagni (anicut) scheme was under consideration. Plans and estimates for a scheme to excavate a spring channel from the right bank of the Penner to irrigate lands in Gangavaram and other villages, Cuddapah district, were under revision. The scheme for excavating a supply channel to Gotur Malidevaroya cheruvu was under consideration. For Penner Kumudavathi Project, the river flow was gauged during the year. The gaugings were being continued. Plans and estimates for the project were under revision. The scheme has been put up for consideration as a Part II Scheme for 1939-40.

For Lower Bhavani Project, experiments on the duty of water for cambodia cotton and other crops in the second-crop zone were carried out at Kugalur from October 1937 to March 1938. An alternative proposal to grow cotton on the entire project area between October and February was put up to Government and

was being examined. The proposal to utilize the surplus water of the Siruvani river for irrigation was deferred pending a decision on the Lower Bhavani Project. Meanwhile, gauge readings were being taken to estimate the flow in the river. For Uduthorahalla scheme, gauge readings were taken during the year to estimate the river flow and to decide on the best of the alternative schemes, viz., storage scheme to irrigate 2,500 acres, and anicut scheme to irrigate 750 acres. Estimates were being prepared. The Hebbahalla scheme is to construct an anicut across the Hebbahalla and dig a channel from it to augment supply to Kottakarai and five other tanks. The channel was being excavated and the estimate for the anicut was under the consideration of Government.

The estimate for improvements to the Wyakondan channel was sanctioned in July 1937.

13. *Character of the season.*—The south-west monsoon set in about early in June. It was generally heavy in the West Coast though below normal. The rainfall in July was above normal except in South Arcot, Central districts and the South omitting Tinnevely district. In August the monsoon was weak and the rainfall below normal except in West Godavari, Kistna, Chingleput, South Arcot, the Central districts and the South. In September it was generally below normal except in Trichinopoly and the South omitting Tanjore. On the whole the south-west monsoon was below normal except in Nellore, Chingleput, Chittoor, North Arcot, Salem, Central districts omitting Coimbatore and the South omitting Tanjore.

The rainfall in October was generally above normal except in Bellary, Salem, Coimbatore, Ramnad and Tinnevely districts. The north-east monsoon was active in November and the rainfall was above normal except in the Circars and the Deccan. The rainfall in South Arcot and Chingleput districts was far above normal and consequently many tanks breached and the rivers overflowed endangering standing crops especially in South Arcot district. The monsoon weakened in December. The rainfall in October to March was normal; it was above normal in Cuddapah, the Central districts except Salem and Coimbatore and the South except Madurai. The extent cultivated up to December was above normal. The condition of standing crops was generally fair except in parts of Kurnool, Bellary, Anantapur and Tinnevely districts.

The average rainfall in the Presidency exclusive of the West Coast and the Nilgiris for the official year 1937-38 was 35.82 inches against 35.04 in the previous year and against the average of 34.05 inches for the five years ending 1936-37.

14. *Floods.*—The highest flood in the Godavari river on 30th July 1937 was 10.40 feet 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 Bezvada was 12.95 feet over the anicut on 31st July 1937 against a record flood of 23.50 feet in October 1903. The maximum flood level in Tungabhadra at Sunkesula was 3.94 feet on the crest of the anicut on August 5th, 1937, against the record of 10.40 feet on October 31st, 1916. The maximum flood at the Adinimayapalli anicut on the Pennar was 3.60 feet on October 3rd, 1937, the record being 13.90 feet on September 26th, 1874. The highest reading on the Cauvery dam was 7.72 feet on August 5th, 1937, against the record of 14.65 feet on the 20th July 1924.

13. *Breaches and accidents.*—Excepting slight damages to the eighth vent of the Thotapalli regulator during the floods of 1936 there were no other serious accidents. The heavy rains of November 1937 caused considerable damage to a number of irrigation works in Chingleput district. Portions of Ponneri taluk were badly affected by the overflow of the Kortaliyar and Araniar rivers. The low-lying portions of Madras City particularly in the north were flooded. A special investigation was made and measures to prevent a recurrence have been suggested and are being considered by Government. Heavy rains in Coimbatore and North Arcot districts in November 1937 caused floods and damages to certain channels in Coimbatore district and to the Palar, Poincy and Cheyyar Anicut systems. Repair estimates were sanctioned and the works were in good progress. Floods due to heavy rains on 29th September 1937 caused breaches in Kattalai High Level channel and the Kulittalai Kattuvvari in several places. The breaches were promptly closed and water let into the High Level channel on 8th October 1937.

16. *Irrigation Advisory Boards.*—There were no advisory boards in Vizagapatnam, Cuddapah, Anantapur, Chingleput, Chittoor, North Arcot, South Arcot, Rannad and Coimbatore districts, these districts being non-deltaic. Godavari delta boards functioned satisfactorily. Boards in Kistna delta improved. The Cauvery delta and Tambraparni boards did no useful work. The boards in Kurnool, Nellore, Bellary, Trichinopoly, Madura and Salem districts generally did not function as usefully as expected.

17. *Irrigation panchayats.*—During the year under review, ten new panchayats were formed, bringing the total number of panchayats working in the Presidency to 93. The work of sixteen panchayats was not satisfactory and there were no special features in the working of 31 other panchayats. The work of the remaining panchayats was satisfactory.

18. *General.*—The accelerated and widespread scheme of improvements to minor irrigation works continued during the year and work to the value of Rs. 15.02 lakhs was done during 1937-38. Total expenditure under the head to the end of the year was Rs. 47.97 lakhs.

Chapter V.

A. IMPORTANT WORKS CARRIED OUT DURING THE YEAR.

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

CAUVERY-METTUR PROJECT.

Stanley dam and supply channel—Constructing a bell mouth entrance and extending the piers of the bridge over the supply channel—(Estimate Rs. 21,479).—The work was completed with an outlay of about Rs. 15,000.

Constructing a stepped apron in rear of Ellis Saddle surplus bridge—Revised estimate Rs. 2,46,000.—To prevent scour and damage to the surplus course during heavy floods, it was decided to build a series of aprons with necessary retaining walls. The works were in progress. Expenditure of 1937-38 was roughly Rs. 81,400.

High and low level sluices.—Some of the roller cages on the high level sluices were replaced by new ones of improved design. Proposals for modifications of the roller cages, grooves, etc., were under consideration, with a view to prevent extensive wear in future.

Maintenance works.—Scour pits on the high and low level channels and in the surplus course were filled up. The park and dam were greatly improved. They attract a large number of visitors.

Sales.—The balance of the crushers was sold to Messrs. Sagar & Co. A large number of buildings including the whole of the Salem camp was sold to private industrial concerns. A number of buildings was also transferred to Electricity, Fisheries and other departments.

Mettur Township Committee.—The Committee was formed in February 1937 and the following items are attended to by the Committee:—

Revenue.—(i) Lease of lands in Mettur camp; and (ii) recoveries on account of water-supplies and scavenging charges.

Expenditure.—(i) Water-supply, (ii) Drainage, and (iii) Maintenance of roads in the camp area.

The initial accounting of expenditure is being done by the Public Works Department on behalf of the Committee.

Industrial development.—“The South Indian Dye Works, Limited” have begun to function.

“The Mettur Industries, Limited” and “The Mettur Chemical and Industrial Corporation, Limited” were putting up buildings for the machinery, etc.

Kattalai Scheme—Kattalai High Level channel.—Outlay was Rs. 14,664 during the year and Rs. 14,39,508 to end of the year.

The channel down to the tail-end was opened for irrigation during the year. The Thayanur tank fed by the channel was taken over by the Public Works Department. Further improvements to this channel were under consideration. The supply available at the tail-end was being watched.

Kattalai North Bank canal.—Outlay was Rs. 572 during the year and Rs. 3,41,495 to end of the year.

All the works were completed. Proposals for improving supply under Musiri Mettu voikal were being formulated.

Improvements to Basavannah channel.—The work was completed. The outlay during the year was Rs. 2,009 and the total expenditure up to date Rs. 4,66,561 against the sanctioned estimate of Rs. 5.93 lakhs.

Thippayapalem project.—Constructing a storage reservoir at Ballavagu near Thippayapalem (Estimate Rs. 4,67,600).—The work was nearly completed. The Special subdivision formed on 30th November 1936 was closed on 31st March 1938. Expenditure during the year was Rs. 1,14,693 and to end of the year Rs. 4,34,680.

Nagavalli River System.—Excavating the Palavalasa distributary (Work Slip Rs. 17,700).—Outlay during the year was Rs. 4,830 and to end of the year Rs. 15,381.

Godavari Delta System.—(1) Installation of three-feet shutters over the Godavari anicut (Estimate Rs. 4,48,000—Work Slip Rs. 3,63,000).—Outlay during the year was Rs. minus 1,60,430 and to end of the year Rs. 1,96,744. The work was finished.

(2) Constructing a lock and regulator across the Cocanada canal.—Outlay during the year was Rs. 6,809 and to end of the year Rs. 31,943. The work was finished.

(3) 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. 5,806 and to end of the year Rs. 69,094.

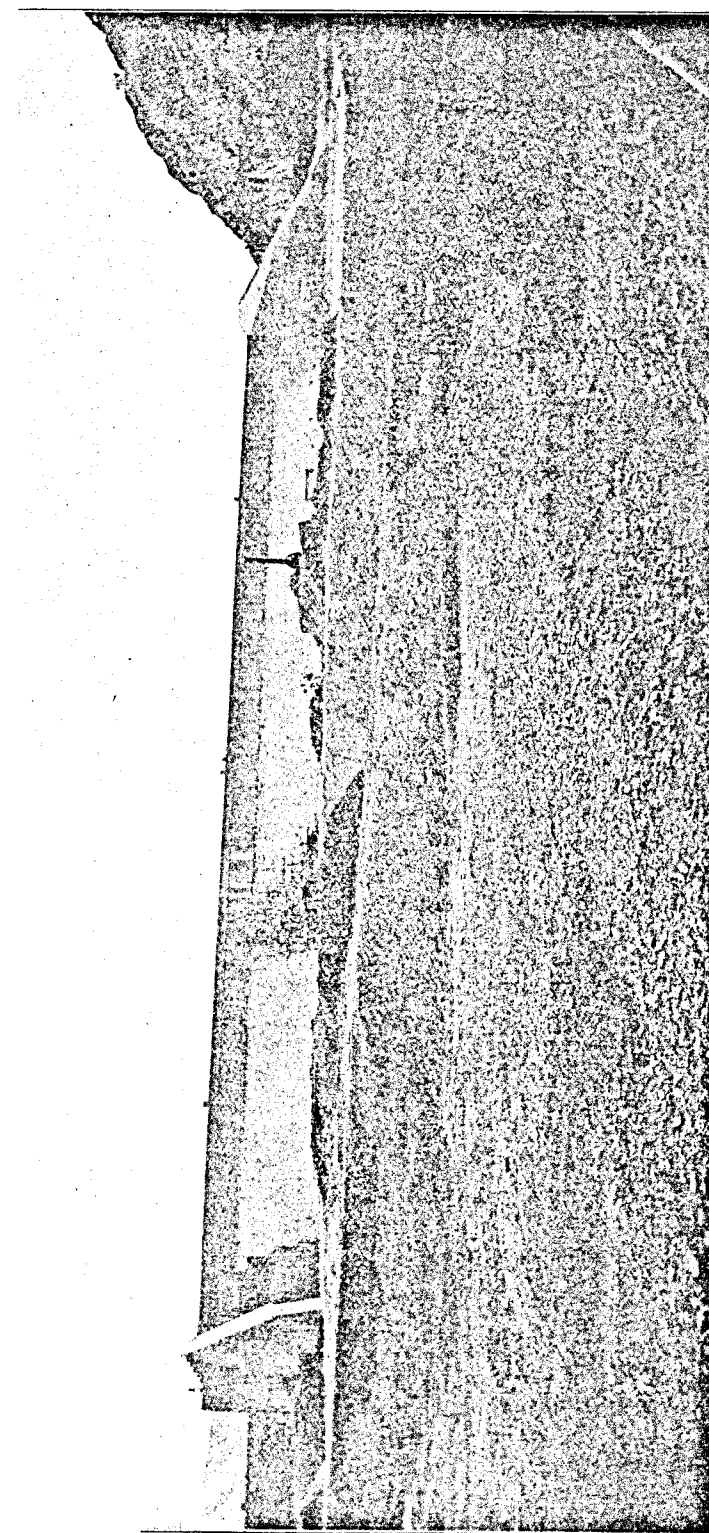
(4) Excavating a channel to Losarigutlapadu village (Estimate Rs. 1,01,000—Work Slip Rs. 98,400).—Outlay during the year was Rs. 23,942 and to end of the year Rs. 53,920.

(5) Excavating a channel to the Vemuladevi village (Estimate Rs. 1,10,000).—Expenditure during the year was Rs. 35,062 and to end of the year Rs. 66,852.

(6) Remodelling Pallamkurru Nos. I and II channels of Bank Canal (Estimate Rs. 31,700).—Outlay during the year was Rs. 4,019 and to end of the year Rs. 4,103.

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. 2,052 and to the end of the year Rs. 55,727. The work was almost complete except a few minor items.

Kistna Delta System.—(1) Kistna East Bank canal (Estimate Rs. 28,49,320).—Outlay during the year was Rs. 2,01,302 and to the end of the year Rs. 25,82,499. The main canal was formally



THIPPAYAPALEM DAM

opened on 15th May 1937. For the first time, supply was given to lands east of the Mopidevi-Masulipatam road. This was the second year of supply to the Divi Island and the ryots in the island had bumper crops.

(2) *Campbell canal* (Estimate Rs. 4,28,690).—Expenditure during the year was Rs. 30,933 and to the end of the year Rupees 3,71,223.

(3) *Excavating the Peddakondur channel—Kistna Western delta* (Estimate Rs. 47,286).—Outlay during the year was Rs. 1,892 and to the end of the year Rs. 49,321.

(4) *Excavating the Tumulur, Duvalur and Kollipara new channels* (Estimate Rs. 54,071).—The outlay during the year was Rs. 1,574 and to the end of the year Rs. 39,058.

(5) *Excavating the Kistna West High Level channel* (Estimate Rs. 7,11,431).—The expenditure during the year was Rs. 1,21,725 and to the end of the year Rs. 4,13,336.

(6) *Excavating the Appapuram channel* (Estimate Rupees 10,75,700).—The expenditure during the year was Rs. 1,81,917 and to the end of the year Rs. 2,11,618.

(7) *Excavating a straight cut to the Kollimerla drain* (Estimate Rs. 54,000).—Outlay during the year was Rs. 32,208 and to the end of the year Rs. 51,113.

Pennar River Canals System—*Fitting up falling shutters to the Sangam anicut*—(Estimate Rs. 1,36,500).—Outlay during the year was Rs. 27,613 and to the end of the year Rs. 41,618.

Cauvery Delta System—(1) *Improvements to Odambogiar* (Estimate Rs. 52,346).—Outlay during the year was Rs. 2,168. The work was completed.

(2) *Remodelling the third reach of the Pandavayar* (Estimate Rs. 38,090).—Expenditure during the year was Rs. 10,096. The work was completed.

(3) *Remodelling the Odambogiar from the New Regulator to the Kivalur dam* (Estimate Rs. 1,10,517).—Outlay during the year was Rs. 31,108 and to the end of the year Rs. 54,000.

General.—As a sequel to the remodelling of rivers and as a preliminary to remodelling all channels in the Cauvery Delta, a beginning was made this year by piping the open heads and cuts in eighteen selected channels and good progress was made. After watching the results, more channels would be taken up. This was the first time an attempt had been made to exert any control over the water after it enters the channels. The mirasidars realize the advantages of remodelling and so far are not opposed to it.

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

Kistna Central Division—*Formation of a new tank in Pydurpad village* (Estimate Rs. 25,360).—Outlay during the year was Rs. 12 and to the end of the year Rs. 20,012. The work is a part-contribution work, and it was completed in 1936-37.

Improvements to Yerracalca (Estimate Rs. 17,500).—Expenditure during the year was Rs. 5,808 and to end of the year Rs. 15,914.

Kurnool Division—(1) *Restoring the Kothapalli Spring channel* (Estimate Rs. 22,800).—The work was nearly completed. It was proposed to plant goat-foot creepers along the banks of the channel to prevent erosions. The outlay during the year was Rs. 138 and to the end of the year Rs. 16,355.

(2) *Restoration of Peddasettipalle spring channel* (Estimate Rs. 44,900).—Excepting for the excavation of the leading channel in front of the head sluice and a diversion drain along the left bank of the channel, balance of the work was completed.

Expenditure during the year was Rs. 7,613 and to the end of the year Rs. 28,696.

Trichinopoly Division—(1) *Improvements to the Musiri Nattu Voikal* (Estimate Rs. 46,460).—Outlay during the year was Rs. 3,562 and to the end of the year Rs. 40,211.

(2) *Excavation of the Puduvoithalai High Level channel for the irrigation of sanded areas of the Murungapettai block* (Estimate Rs. 73,000—Deviation slip Rs. 58,000).—Outlay during the year was Rs. 8,058 and to the end of the year Rs. 64,853.

B. SEASON, RAINFALL AND SUPPLY.

Godavari Delta.—The rainfall during the south-west monsoon was low and the freshes in the river were late. Hence transplantation was delayed. The season was good and there were bumper crops. The second-crop season was bad and there was difficulty in distribution of water. There was however no large failure of crops.

Nagavalli River system.—There was sufficient supply in the Nagavalli main channel throughout the season. Scarcity of water was not felt anywhere in the project area.

Kistna Delta system.—The first freshes arrived on 11th April 1937, i.e., much earlier than usual. The river was high till the 7th May when it started falling. As the next freshes did not arrive till 21st June, there was difficulty in supplying seed-beds and turns had to be resorted to. As the seasonal rains were poor, the low lands did not suffer from submersion and the yield was above normal.

Kistna East Bank Canal system.—Due to lack of seasonal rains, there were complaints about inadequate supplies to Divi Island during the transplantation season. This, however, soon abated, and the supply was on the whole very satisfactory. The Divi canal was closed for irrigation on 21st November 1937.

Pennar River Canals system.—There were occasional rains throughout the year and heavy rains in November 1937.

The supply to the Sangam delta was sufficient and satisfactory. The crops yielded well compared to previous years. As the Kani-giri reservoir read 19.7 feet in January 1938, it was possible to allow water for a large area of pillipesara and fodder crops and for second-crop on about 3,000 acres in the delta.

Grand Anicut canal.—There were heavy rains in November but crops were not damaged. The area brought under cultivation during the year was 114,353 acres against 102,476 acres in 1936-37. The season was on the whole normal.

Due to heavy rains in November 1937, several channels and tanks breached in the Shatiatope, Mehamattur, Tirukkoyilur and Vriddhachalam anicut systems. Repairs were carried out in time and there was no difficulty about supplying the standing crops.

Periyar system.—The south-west monsoon was very weak in the lake area. The lake level in December 1937 was considerably below the average level for the month in the previous years. Supply was, however, sufficient and the general condition of the crops good.

Tinnevelly Division.—The rainfall during the year was poor. It was 28.83 inches against 41.86 inches in the previous year. The year was unusually bad. The exceptionally low supplies in the Srivaikuntam and Marudur anicut systems, were distributed to the best advantage possible. Most of the tanks had scanty supplies or ran dry. To save withering crops turns had to be introduced.

C. CLOSURE OF CANALS.

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

Godavari Delta.

Canals.	Date of closure.	Date of re-opening.
Eastern delta canals	27th April 1937	1st June 1937.
Central delta canals	15th April 1937	20th May 1937.
Western delta canals	1st May 1937	1st June 1937.
Dummagudem canal	30th April 1937	10th June 1937.

Kistna Delta.

Canals.	Date of re-opening.	Date of closure.
Kistna Eastern delta—		
Main canal	15th May 1937	1st April 1938.
Bandar canal	Do.	Do.
Ryves canal	22nd May 1937	1st March 1938.
Ellore canal	1st June 1937	1st April 1938.
Kistna Western delta—		
All canals	1st June 1937	15th March 1938.

D. INDUSTRIAL CROPS.

The area under sugarcane in the various systems for which capital and revenue accounts are kept during the year was 21,791 acres (chiefly in Hospet taluk of Bellary district and in the Godavari delta) against 23,435 acres in the previous year. The area under indigo cultivation was 581 acres under the Pennar river canals system against 2,178 acres in the previous year.

The sugarcane area in the Kistna Eastern delta has been localized. A list of channels under which irrigation of cane is permitted was published in the District Gazette.

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

1. *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	484	2,532	..	3,016
In charge of Revenue Department	5,344	24,325	1,661	31,330
Total	5,828	26,857	1,661	34,346

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 1937-38 on works by minor heads.

Minor heads.	Public Works Department	Revenue Department Works in charge of Public Works officers.	Ordinary minor works.	Old maintenance charges.	Tank Restoration Scheme works.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Works	65,659	..	..	..	..	65,659
Extensions and improvements	45,634	3,084	63,133	..	..	1,11,851
Maintenance and repairs	9,48,074	24,406	5,10,088	18,338	..	15,00,906
Establishment	2,54,990	9,425	2,63,194	5,532	..	5,33,141
Tools and plant	2,389	61	1,401	85	..	3,936
Miscellaneous expenditure	95,506	..	..	..	..	..
Total	14,12,252	36,976	8,37,816	23,955	(a) 95,506	22,10,999
Add outlay by civil officers on minor irrigation works	..	..	..	..	(b) 11,72,875	..
Grand total	..	..	..	..	34,83,874	..

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

(b) Works	Rs.
Maintenance and repairs	13,989
Establishment	9,15,102
Tools and plant	2,43,840
Total	104
Total	11,72,875

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

	1936-37.	1937-38.
	Rs.	Rs.
Irrigation revenue	91,41,418	81,01,313
Receipts collected by the Public Works Department	60,761	59,365
Total	92,02,179	81,60,678

5. The net revenue of the year after deducting working expenses amounted to Rs. 47,64,536 against Rs. 56,53,312 in the previous year.

6. The progress made in the investigation and execution of Tank Restoration Scheme works is dealt with in paragraph 10 of Chapter IV. The following table shows by districts the work done during and up to the end of the year 1937-38 :—

Circ'e.	District.	Approximate area investigated.	Number of estimates sanctioned.	Amount of estimates sanctioned.
(1)	(2)	(3)	(4)	(5)
		During the year 1937-38.	To the end of the year 1937-38.	During the year 1937-38.
		SQ. MILES.	SQ. MILES.	Rs.
Dowlaiswaram.	Vizagapatam	1,314	..	466
	East Godavari	147	3	922
	West Godavari	..	..	..
Bezwada	Kistna	..	..	..
	Guntur	..	..	..
	Nellore	..	..	..
	Kurnool	7,648	..	340
	Cuddappah	4,650	..	1,319
Bellary	Bellary	10,518	..	251
	Anantapur	7,830	..	789
	Chittoor	5,093	..	2,050
	Chingleput	2,227	..	602
Madras	North Arcot	..	..	2,001
	North Arcot	4,659	..	..
	Coimbatore	8,097	..	149
	Salem	6,052	1	1,273
	South Arcot	850	Nil.	723
Tanjore	Tanjore	1,140	..	610
	Trichinopoly	4,564	..	601
	Madura	4,836	..	1,644
Trichinopoly	Tinnevely	1,969	..	969
	Ramnad	1,643	..	3

Particulars for West Godavari, Guntur and Nellore have not been received.
* Minus figures due to revision of sanctioned estimates.

8. The expenditure was Rs. 8,81,069 against Rs. 9,47,902 in the previous year as detailed below :—

MADRAS,
14th December 1938.

F. M. DOWLEY,
Chief Engineer for Irrigation.

APPENDIX I

STATISTICAL STATEMENTS (PRESCRIBED BY THE SECRETARY OF STATE).

A-1.—Statement of Canals in the Madras Presidency for the year 1937–38.

Source of supply of water	Cauvery delta system.	Srirangapatnam ancient system.	Godavari delta system.	Mohamattur ancient system.	Tadapalli channel.	Kalinga-rayan channel.	Vridha-chalam ancient system.	Marudur system.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	River	River	River	River	River	River	River	River
	Cauvery.	Tambraparni.	Godavari.	Manimukta-nadi.	Bhavani.	Bhavani.	Manimukta-nadi.	Tambraparni.
Minimum discharge of river	..	..	2,453	163	..	..	17	..
Maximum discharge of main canals, as designed	48,750	1,860	14,510	243	725	893	351	1,595
Maximum discharge during the year	25,342	1,933	14,072	176	957.09	894.0	353	1,325
Average rainfall for the year	52.86	28.33	33.07	50.87	24.59	35.70	54.27	28.83
Gross area commanded	17,04,093	85,690	12,96,000	13,782	20,693	18,875	19,993	35,840
Culturable area commanded	900,034	83,500	1,22,500	10,661	19,332	15,000	16,359	17,920
Area irrigable by complete project	908,375	93,500	8,40,000	5,200	19,332	15,000	15,559	17,920
Area irrigable at present	900,926	26,000	8,10,000	5,000	15,400	12,327	8,829	17,920
Sanctioned estimate—								
Direct charges	Rs. 16,92,925	13,81,530	1,10,89,332	70,761	1,70,830	1,78,780	84,191	50,541
Indirect charges	1,66,767	1,15,256	19,34,864	1,897	11,050	4,506	2,494	1,265
Interest during construction	..	7,49,577	1,11,85,052	..	..	..	..	..
Total, Estimate	Rs. 18,29,692	22,26,393	2,41,62,248	72,658	1,81,490	1,83,286	86,685	51,806
Expenditure to end of 1937-38—								
Direct charges	Rs. 77,49,768	16,67,459	1,65,70,789	81,924	1,66,383	1,75,980	1,04,144	58,721
Indirect charges	2,61,273	1,07,604	20,60,850	2,071	11,063	4,506	4,060	1,401
Interest during construction	13,37,765	8,67,827	99,82,397	..	..	..	..	..
Total, Expenditure	Rs. 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 1937-38—								
Main canals, irrigation	1,253½	28	509 5/8	7	48	57	17	29
Branch canals, irrigation	..	..	..	8	37	54	16	..
Distributaries	3,205	46	1,887	9.26	..	..	16	71
Of above—								
Navigable	..	..	491 3/8	..	..	..	..	..

A-1.—Statement of Canals in the Madras Presidency for the year 1937-38—*cont.*

Source of supply of water	Palar ancient system.	Muniyuru system.	Sagleru system.	Nagavalli river system.	Nagavaram ancient and supply channel.	Kaniyampalayam ancient.	Vedavaniyampalayam canal.	Buckingham canal.
	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
Minimum discharge of river	River Palar.	River Muniyuru.	River Sagleru.	River Nagavalli.	Gunjaneru.	River Bhavani.		
Maximum discharge of main canals as designed.	5,631	300	447	414	78	27-56		
Maximum discharge during the year	5,091	291	317	498	78	24-42		
Average rainfall for the year	43-90	31-46	42-62	42-35	34-63	24-42		
Gross area commanded	140,131	14,471	33,576	49,920	894	1,600		
Culturable area commanded	106,032	13,024	26,576	31,200	894	1,600		
Area irrigable by complete project	82,718	10,580	27,668	27,500	894	213		85,56,015
Area irrigable at present.	78,068	10,000	4,500	27,500	894	213		85,56,015
Sanctioned estimate—								
Direct charges	23,28,492	6,71,434	4,47,108	17,47,770	1,07,295	1,36,343	1,92,699	4,88,256
Indirect charges	1,16,762	28,000	1,76,619	68,580	2,595	3,757	3,738	
Interest during construction				2,98,217				
Total, Estimate	24,45,254	6,99,434	4,64,727	21,09,517	1,09,890	1,40,100	1,96,432	9,04,427
Expenditure to end of 1937-38—								
Direct charges	23,48,502	5,71,899	4,47,108	17,02,165	1,07,295	1,07,221	1,32,699	85,28,539
Indirect charges	1,17,804	29,761	17,619	42,606	2,595	3,853	3,733	4,89,464
Interest during construction				2,98,217				
Total, Expenditure	24,66,306	6,01,660	4,64,727	20,37,888	1,09,890	1,11,074	1,36,432	90,31,993
Works completed at end of 1937-38—								
Main canals, irrigation	156	26†	12	64†	2	10†	42 1/8	276†
Branch canals, irrigation		34						
Distributaries	139	64		47†				276†
Of above—								
Not navigable								
Navigable								

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1937-38.

A-11.—Statement of Reservoir Projects in the Madras Irrigation Department									
Source of supply of water	Chembram-bakkam tank.	Cumbum tank.	Periyar system.	Toludur (Willingdon) reservoir.	Canvey-Mettur Project.	Barur tank.	Madras water supply and irrigation system.		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)		
	Cocum river.	Gundakamma and Jamporu rivers.	Periyar and Vaigai rivers.	Vellar river and rain-fall.	Canvey.	Pondur river and local rivers.	Kortayar river.		
Area of catchment .. Sq. miles.	100	480	239	50	16,800	2,082	34		
supplied by } Average rainfall during the year .. Inches.	60.79	22.56	65.16	54.70	100.52 hilly portion. 28.77 plain portion.	31.92	61.19		
Contents of tank between levels of surface of full supply and sill of canal head sluice .. Mill. cft.	3,146	2,942.17	9,815	2,591.58	98,500	248.6	2,729,864		
Area of surface at full supply .. Acres.	5,729	5,697	16,720	3,946	59.25	605	5,361		
Grass area commanded .. "	32,554	7,860	768,000	38,400	4,97,200	6,887	16,129		
Culturable area commanded .. "	24,478	6,000	Not known.	28,000	4,97,200	6,887	10,155		
Area irrigable by complete project .. "	15,800	6,000	143,000	27,870	3,32,000	6,887	9,852		
Area irrigable at present .. "	13,000	5,980	143,000	26,000	3,32,000	3,750	9,852		
Sanctioned estimate—									
Direct charges .. Ra.	648,970	88,985	84,71,000	29,60,000	7,23,11,000	4,00,000	15,47,128		
Indirect charges .. "	1,12,547	2,888	2,79,000	2,50,000	19,97,000	25,800	2,38,945		
Interest during construction .. "	..	..	16,23,606	..	1,42,31,366	41,439	..		
Total, Estimate .. "	7,61,517	86,373	1,03,73,606	32,10,000	8,79,89,866	4,66,739	17,86,068		
Expenditure to end of 1937-38—									
Direct charges .. Ra.	9,51,348	83,985	1,04,64,627	23,48,337	6,47,71,888	4,19,375	16,28,864		
Indirect charges .. "	1,12,795	2,888	3,71,027	2,51,169	10,49,397	28,788	2,40,064		
Interest during construction .. "	..	..	16,06,402	..	2,41,45,932	30,175	..		
Total, Expenditure .. "	7,64,143	86,373	1,24,42,056	25,99,496	8,99,68,757	5,23,288	18,68,918		
Works completed to end of 1937-38 .. Feet.	25 (earth).	56 (earth).	173	50 (earth).	214 (masonry).	28 (earth).	30 (earth)		
Dam (height completed) .. "	107	118	152	31½	113½	11	11½		
Canals .. Miles.	14	23½	118	40	590½	26	..		
Distributaries .. "	..	..	..	..	..	..	..		

	Dondapad tank.	Your tank.	Atmakur tank.	Jangamaleswara-puran tank.	Anamasamudram-Berapur tank.	Hajipuram tank.	Ponnalur tank.
(8)	Rainfall ..	(9) Rainfall and surplus of upper tanks and spill from Chalakalva branch of Swarnamuki.	(10) Catchment of Chandravanka and Kolsaguntla vagus.	(11) Catchment of Dondi Vagu.	(12) Beraperu river.	(13) Domakuru diverted into the tank.	(14) Gundlacheru diverted into the tank.
Sq. miles.	56	60·50	105	60	23·62	100	32·14
Inches.	21·27	43·84	8·13	32·20	30·96	27·03	38·32
Contents of tank between levels of canal head sluices ..	288·38	317·69	164	70	90·57	309	180·512
Area of surface at full supply ..	705	3,285	575	618	474	1,600	719
Gross area commanded ..	3,240	3,176	1,700	940	1,000	2,900	1,973
Culturable area commanded ..	2,880	3,176	1,160	960	1,000	2,900	1,973
Area irrigable by complete project ..	280	1,500	460	290	1,000	700	1,000
Area irrigable at present ..	250	1,470	460	290	1,000	700	1,000
Sanctioned estimate—							
Direct charges ..	1,24,786	61,741	1,09,951	61,253	71,687	2,78,774	1,90,887
Indirect charges ..	16,218	1,612	13,428	10,411	1,886	33,109	25,011
Interest during construction ..	..	..	..	..	..	..	..
Total, Estimate ..	1,40,004	63,353	1,23,379	71,664	73,573	3,11,883	2,15,898
Expenditure to end of 1937-38—							
Direct charges ..	Ba.	61,741	1,11,959	61,253	71,687	2,78,774	1,92,975
Indirect charges ..	"	1,612	13,444	10,411	1,886	33,109	25,674
Interest durin.g construction ..	"	..	..	..	..	..	..
Total, Expenditure ..	"	63,353	1,25,403	71,664	73,573	3,11,883	2,18,649
Works completed to end of 1937-38—							
Dam (height completed) ..	Feet.	..	33	24	..	6 (masonry).	21½
Canals ..	Miles.	..	..	..	..	..	..
Distributaries ..	"	..	..	..	..	..	..

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1937-38—cont.

Source of supply of water	Markapur tank. (15)	Venkata- puram tank. (16)	Bhavanasi tank. (17)	Yellanur tank. (18)	Panjasatti reservoir. (19)	Siddapur tank. (20)	Mopad reservoir. (21)
Area of catchment .. Sq. miles.	270.25	51	43	20.50	108	45	250
Average rainfall during the year .. Inches.	29.42	15.12	24.46	28.79	37.31	49.58	25.28
Contents of tank between levels of surface of tank supply and all of canal head sluice .. Mili. cft.	124.62	237	174.94	342.5	225	936	3,007
Area of surface at full supply .. Acres.	811	448	650	2,617	608	1,125	3,100
Gross area commanded .. "	1,931	1,700	2,700	1,707	2,500	4,900	13,800
Quittable area commanded .. "	1,701	1,700	2,448	1,641	900	4,250	13,800
Area irrigable by complete project .. "	340	340	841	925	900	1,000	12,500
Area irrigable at present .. "	1,583	340	841	925	100	1,000	12,500
Sanctioned estimate—							
Direct charges .. Rs.	1,16,657	3,31,776	2,02,289	2,35,711	3,36,090	9,21,980	21,97,000
Indirect charges .. "	4,061	14,324	6,711	30,089	66,510	26,829	1,00,000
Interest during construction .. "	..	..	47,113	..	..	..	..
Total, Estimate .. "	1,20,658	3,46,600	2,56,173	2,65,800	4,04,600	9,48,800	22,97,000
Expenditure to end of 1937-38—							
Direct charges .. Rs.	1,24,481	3,72,250	2,54,895	2,39,192	3,27,781	7,91,038	21,88,275
Indirect charges .. "	4,859	12,671	11,086	36,515	11,495	13,448	96,422
Interest during construction .. "	..	71,315	29,806	..	..	..	..
Total, Expenditure .. "	1,29,340	4,56,236	2,95,297	2,69,707	3,39,276	8,04,486	22,89,697
Works completed to end of 1937-38—							
Dam (height completed) .. Feet.	22	31	20	15	40	27½	71½
Canals .. Miles.	(earth). 7½	3½	6½	..	(core wall). 1½	6 7/8	(earth). 16 7/8
Distributaries .. "	..	..	..	..	..	9	84

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 1937-38.

1951-52.

APPENDIX I

APPENDIX I

Direct charges (net expenditure).

Total
excluding
interest.

Simple
interest.

Works or systems.

(1)

A.—IRRIGATION WORKS.

1. PRODUCTIVE WORKS.

Cauvery delta system.

To end of previous year.

During the year.

To end of previous year.

During the year.

To end of previous year.

During the year.

To end of previous year.

During the year.

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To end of previous year.

During the year.

To end of previous year.

During the year.

(1)

A. IRRIGATION WORKS--*cont.*

2. UNPRODUCTIVE WORKS.

2. UNPRODUCTIVE WORKS.

[illegible]

51

Jangamabeesava- puram tank.	{To end of previous year.	52,564	8,689	..	..	61,253	10,411	71,064	69,614
Anasamudram- Beraperu tank.	{To end of previous year.	58,421	13,266	..	..	71,687	1,896	73,573	2,664
Hajipuram tank	{To end of previous year.	2,80,686	48,808	..	..	2,78,774	83,109	3,11,883	8,118
Ponnalur tank	{To end of previous year.	1,61,263	31,658	..	54	1,92,975	26,674	2,18,649	12,136
Markapur tank	{To end of previous year.	1,01,874	23,066	..	41	1,24,481	4,859	1,29,340	2,11,303
Nagavalli river system.	{To end of previous year.	13,39,472	2,79,217	98,405	5,808	17,06,786	42,542	17,49,328	8,394
Venkatapuram tank.	{To end of previous year.	3,03,934	64,539	4,236	..	3,72,250	12,671	3,84,921	1,18,317
Bhavanasi tank	{To end of previous year.	1,85,879	43,103	25,710	..	2,54,395	11,096	2,65,491	5,415
Yellanur tank	{To end of previous year.	1,91,292	41,156	7,087	..	2,35,192	30,515	2,69,707	16,183
Panjapatti reservoir project.	{To end of previous year.	2,24,993	43,411	60,075	..	3,27,781	11,495	3,39,276	2,09,502
Siddapur tank	{To end of previous year.	5,22,751	96,255	1,72,474	..	7,91,038	13,448	8,04,486	11,066
Nagavaram anicut and supply chan- nel.	{To end of previous year.	88,757	18,538	..	..	1,07,295	2,595	1,09,890	2,09,573
Mopad reservoir system.	{To end of previous year.	16,67,162	3,20,594	2,34,214	..	21,94,076	96,428	22,90,504	10,405
Kaniyampalayam anicut.	{To end of previous year.	97,391	27,085	495	..	1,07,221	3,853	1,11,074	2,62,892
Tippayal akem ani- cut.	{To end of previous year.	3,20,646	70,519	693	..	3,91,202	10,816	4,02,018	14,158
	{To end of previous year.	1,14,693	57,613	264	..	1,72,570	1,147	1,73,717	6,29,734
	{To end of previous year.	..	..	..	..	..	..	..	34,410
	{To end of previous year.	..	..	..	..	..	..	..	85,306
	{To end of previous year.	..	..	..	..	..	..	..	4,667
	{To end of previous year.	..	..	..	..	..	..	..	19,15,385
	{To end of previous year.	..	..	..	..	..	..	..	95,444
	{To end of previous year.	..	..	..	..	..	..	..	1,06,904
	{To end of previous year.	..	..	..	..	..	..	..	4,684
	{To end of previous year.	..	..	..	..	..	..	..	82,598
	{To end of previous year.	..	..	..	..	..	..	..	20,771

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 1937-38—cont.

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Direct charge (net expenditure).										
Works or systems.		Works.	Establishment.	Tools and plants.	Suspense.	Deduct receipts on capital account.	Total.	Indirect charges.	Total excluding interest.	Simple interest.
(1)	(2)	RS.	RS.	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS—cont.										
2. UNPRODUCTIVE WORKS—cont.										
Basavannah channel	{ To end of previous year.	4,64,553	1,09,698	2,190	..	..	5,76,441	6,535	5,82,976	2,37,136
	{ During the year ..	2,010	1,010	5	..	..	3,025	20	3,045	25,141
	{ To end of previous year.	56	15	..	..	71	71	1	72	2
Dunnaleru project.	{ During the year ..	1,936	972	4	..	..	2,912	19	2,931	66
Total A. Irrigation works—2. Unproductive works.	{ To end of previous year.	3,08,39,455	27,63,784	47,50,849	..	3,02,399	3,75,51,189	9,00,870	3,84,52,059	6,43,29,452
	{ During the year ..	1,30,283	63,273	351	..	..	1,93,907	3,031	1,96,938	16,37,894
Total A. Irrigation works.	{ To end of previous year.	15,46,30,615	2,33,57,284	88,72,177	1,46,716	23,58,646	18,46,48,246	77,39,258	19,23,87,504	20,85,24,200
	{ During the year ..	8,21,316	3,06,935	2,729	— 42,865	2,11,436	8,76,679	47,038	9,23,717	80,51,266
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.										
2. UNPRODUCTIVE WORKS.										
Vedaranniyam canal.	{ To end of previous year.	1,07,885	24,814	..	..	..	1,32,699	3,733	1,36,432	3,44,341
	{ During the year ..	68,21,308	16,14,546	1,81,040	..	24,365	85,92,529	4,89,464	90,81,993	5,772
Buckingham canal.	{ To end of previous year.	..	..	..	..	..	..	..	..	1,76,46,951
	{ During the year ..	..	..	..	..	..	..	..	..	3,73,775
Total B. Navigation etc. works—2. Unproductive works.	{ To end of previous year.	69,29,193	16,39,360	1,81,040	..	24,365	87,25,228	4,93,197	92,18,425	1,79,91,292
	{ During the year ..	..	..	..	..	..	..	..	..	3,79,547
Total B. Navigation etc., works.	{ To end of previous year.	69,29,193	16,39,360	1,81,040	..	24,365	87,25,228	4,93,197	92,18,425	1,79,91,292
	{ During the year ..	..	..	..	..	..	..	..	..	3,79,547
Total Construction of Irrigation etc., works.	{ To end of previous year.	16,15,59,808	2,49,96,644	90,53,217	1,46,716	23,82,911	19,33,73,474	82,37,455	20,16,05,929	22,65,15,492
	{ During the year ..	8,21,316	3,06,935	2,729	— 42,865	2,11,436	8,76,679	47,038	9,23,717	84,30,813

APPENDIX I

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 1937-38.

Works or systems.	Revenue (actual receipts).									
	Irrigation.		Share of land revenue.		Total.		Navigation.		Plantation.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS.										
1. PRODUCTIVE WORKS.										
1 Cauvery delta system	40,27,580	1,24,043	41,51,623	677	3,960	4,769	9,406	227	9,406	227
2 Srivalkuntam ancient system	1,90,164	2,30,168	4,20,332	1,86,101	6,708	47,793	2,40,602	127	9,233	127
3 Godavari delta system	44,37,286	2,30,168	46,67,454	..	57	1,016	1,073	346	1,073	346
4 Menastur ancient system	23,565	2,090	25,655	..	11	1,482	1,929	..	1,929	..
5 Tadapalli channel system	1,25,157	433	1,25,590	..	223	212	1,792	..	1,792	..
6 Rangarayan channel system	1,17,045	339	1,17,384	..	..	75	233	..	233	..
7 Pichachalam ancient system	34,431	957	35,388	..	..	866	1,561	..	1,561	..
8 Chembambakkam tank system	45,171	270	45,441	..	..	2,707	3,264	29	3,264	29
9 Parur ancient system	1,76,975	72,179	2,49,154	..	336	158	371	..	371	..
10 Pennar river canal system	7,29,934	3,399	7,33,333	..	..	210	372	..	372	..
11 Arakonada channel system	1,33,257	17,091	1,50,348	..	12	1,152	1,164	..	1,164	..
12 Tirukoyilur ancient system	1,13,385	17,091	1,30,476	..	..	..	..	..	..	..
13 Shadatope ancient system	1,23,536	4,795	1,28,331	..	..	..	..	..	..	..
14 Cheyyar ancient system	89,721	5,481	95,202	..	..	..	..	..	..	..
15 Cumbum tank system	33,942	5,488	39,430	..	..	..	..	..	..	..
16 Ponnaiy ancient system	77,331	94,841	1,72,172	..	538	1,529	6,688	1	8,755	1
17 Periyar project system	7,72,119	94,841	8,66,960	..	538	52,420	1,64,560	120	963	120
18 Kistna delta system	39,25,374	1,89,556	41,14,930	..	1,08,640	58	333	36	333	36
19 Nandiyar channel system	27,354	7,874	35,228	..	5	220	225	..	225	..
20 Chicacole minor rivers system	1,28,537	51,515	1,80,052	..	39	2,489	4,781	..	4,781	..
21 Lower Coleroon ancient system	4,15,253	87,205	4,82,458	..	516	2,338	2,872	..	2,872	..
22 Kistna East Bank canal scheme (old Divi pump ing system)	2,76,554	98,284	3,74,838	..	18	94	243	..	243	..
23 Toludur reservoir system	97,936	..	97,936	..	149	97	806	..	806	..
24 Polavaram island project	96,497	..	96,497	..	708	25,403	27,816	..	27,816	..
25 Cauvery-Mettur project	12,53,148	..	12,53,148	..	12	1,075	3,581	..	3,581	..
26 Kattalai scheme	3,37,953	121	3,38,074	..	62	1,57,826	4,86,135	..	4,86,135	..
Total, A. Irrigation works—(1) Productive works	1,77,70,031	8,96,368	1,86,66,399	2,06,932	31,427	1,57,826	4,86,135	3,085	4,86,135	3,085
2. UNPRODUCTIVE WORKS.										
1 Kurnool-Cuddapah canal	3,27,654	2,992	3,30,646	..	..	6,994	1,453	..	6,994	12
2 Barur tank	21,900	782	22,682	..	136	1,589	268	..	1,589	..
3 Vallur ancient system	5,812	1,074	6,886	..	..	68,464	68,464	..	68,464	..
4 Madras Water-supply and Irrigation system	21,640	46	22,106	..	369	253	922	..	922	..
5 Pelandora ancient system	46,040	86	46,126	..	542	1,225	1,767	..	1,767	..
6 Palur ancient system	3,11,688	16,852	3,28,540	..	..	1,164	1,164	..	1,164	..
7 Muniyeru system	43,264	62	43,326	..	..	..	..	..	..	..

APPENDIX

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C.I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as “Productive” and “Unproductive”) for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1937–38—*cont.*

Works or systems.	Revenue (actual receipts).								
	Irrigation.			Navigation.	Plantation.	Miscellaneous.	Total.	Less refund of revenue.	
	Irrigation revenue. (2) Rs.	Share of land revenue. (3) Rs.	Total. (4) Rs.						
A. IRRIGATION WORKS—cont.									
2. UNPRODUCTIVE WORKS—cont.									
8 Dondapad tank	1,376	10	1,386	..	..	..	..	..	..
9 Yerur tank	1,024	86	1,110	..	..	..	..	..	..
10 Sagdieru system	20,849	26	20,875	..	..	74	74	..	..
11 Atmakur tank	1,634	..	1,634	..	..	6	6	..	..
12 Jaganmohaswarapuram tank	3,833	..	3,833	..	..	..	..	..	..
13 Annaswami tank-Beraperu tank	3,607	1	3,608	..	..	..	..	..	..
14 Rajipuram tank	2,964	70	3,034	..	..	..	..	..	..
15 Ponnatur tank	4,839	..	4,839	..	..	..	..	..	..
16 Marajpur tank	3,660	..	3,660	..	..	..	..	..	..
17 Nagavalli river system	94,303	1	94,304	..	35	78	78	..	..
18 Vankasapuram tank	945	38	983	..	..	434	469	..	..
19 Bavanasi tank	4,967	..	4,967	..	..	36	36	..	..
20 Vellur tank	2,143	1,104	3,247	..	..	1	1	..	..
21 Panjapatu reservoir	..	..	..	..	..	..	..	..	..
22 Edappur tank	4,285	..	4,285	..	..	..	..	..	..
23 Nagavaram anicut and supply channel	3,641	1,017	4,658	..	..	2	2	..	..
24 Mopad reservoir system	37,039	5,170	42,209	..	3	120	123	..	..
25 K. anniyampalayam anicut	169	..	169	..	..	4,000	4,000	..	..
26 Tippavapalem project	..	..	..	..	..	..	..	..	..
27 Basavanah channel	..	..	..	..	..	269	269	..	..
Total, A. Irrigation works—(2) Unproductive works	9,68,371	51,336	10,19,707	72	1,085	84,541	85,698	55	..
Total A. Irrigation works	1,87,38,402	9,47,704	1,96,86,106	2,97,004	32,512	2,42,367	5,71,883	3,140	..
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.									
(2) UNPRODUCTIVE WORKS.									
1 Vedaranyam canal	..	..	..	688	7	3,836	695	5	..
2 Buckingham canal	..	..	..	1,01,706	38	..	1,05,530	19	..
Total, B. Navigation, etc., works—2. Unproductive works	..	..	..	1,02,394	45	3,836	1,06,275	24	..
Total, B. Navigation, etc., works	..	..	..	1,02,394	45	3,836	1,06,275	24	..
Total, Construction of Irrigation, etc., works..	1,87,38,402	9,47,704	1,96,86,106	3,99,398	32,557	2,46,203	6,78,158	3,164	..

APPENDIX I

C.I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as “Productive” and “Unproductive”) for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1937–38—*cont.*

Works or systems.	Revenue (actual receipts)— <i>cont.</i>					
	Revenue		Deduct share of old revenue.		Total revenue due to improvements.	
	(10) RS.	(11) RS.	(12) RS.	(13) Direction.	(14) Establishment. Execution.	(15) Civil officers. Rs.
A. IRRIGATION WORKS—<i>cont.</i>						
EL. PRODUCTIVE WORKS—<i>cont.</i>						
1 Cauvery delta system	41,60,802	29,74,685	11,86,117	..	..	2,07,561
2 Srivaikuntam anicut system	2,00,760	79,000	1,21,760	..	..	5,633
3 Godavari delta system	49,07,700	1,24,100	47,83,600	..	..	2,25,273
4 Mahamattur anicut system	24,837	4,000	20,837	..	..	984
5 Tho'spalli channel system	1,30,015	76,000	54,015	..	..	2,604
6 Kallurayam channel system	1,19,320	85,000	34,320	..	..	1,626
7 Vridhaiah channel system	36,003	8,500	26,503	..	..	1,313
8 Chembambakkam tank system	46,203	16,000	30,203	..	..	1,506
9 Marudur aicut system	1,78,549	1,15,000	63,549	..	..	3,113
10 Pennar river canals system	8,06,348	2,56,900	5,49,348	..	..	26,185
11 Ark. nkoia channel system	31,157	19,000	12,157	..	..	734
12 Trunkoyilur anicut system	1,17,105	60,000	57,105	..	..	2,812
13 Shattaloop anicut system	1,40,239	20,000	1,20,239	..	..	5,993
14 Cheyyar anicut system	95,620	39,000	56,620	..	..	2,701
15 Cumbum tank system	33,503	30,000	3,503	..	..	175
16 Polney anicut system	1,02,935	38,000	64,935	..	..	3,238
17 Peiyar project system	8,75,595	2,01,000	6,74,595	..	..	29,422
18 Kistna delta system	43,19,670	71,000	42,48,670	..	..	2,00,656
19 Nandivar channel system	27,894	17,000	10,894	..	..	522
20 Chitacole minor rivers system	1,26,516	95,000	31,516	..	..	2,061
21 Lower Coleroon anicut system	4,74,579	1,55,000	3,19,579	..	..	15,740
22 Kistna east bank canal extension scheme (old Divi pumping system)	3,66,297	20,300	3,45,997	..	..	13,630
23 Toludur reservoir system	9,527	10,500	1,973	..	..	4,395
24 Polavaram Island project	96,302	..	96,302	..	..	4,775
25 Cauvery-Mettur project	12,80,374	1,01,769	11,78,605	..	..	57,569
26 Kattalai scheme	3,41,599	2,54,000	87,599	..	..	4,199
Total, A. Irrigation Works—I. Productive works	1,91,49,499	48,73,844	1,42,75,655	..	..	8,24,490
2. UNPRODUCTIVE WORKS.						
1 Kurnool-Cuddapah canal	3,37,400	35,872	3,01,528	..	..	14,718
2 Barur tank	23,071	4,500	19,171	..	..	849
3 Valur anicut syste	7,154	5,000	2,154	..	..	94
4 Madras water-supply and Irrigation system	90,466	11,000	79,466	..	..	550
5 Pelandural anicut system	46,768	3,000	43,768	..	..	2,157
6 Palur anicut sys m	3,80,044	1,26,009	2,54,035	..	..	10,115
7 Muniyeri system	44,490	2,500	41,990	..	..	2,041
8 Dondapad tank	1,386	..	1,386	..	..	69

APPENDIX I

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 1937-38—cont.

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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.	
	(10) RS.	(11) RS.	(12) RS.	(13) RS.	(14) RS.	(15) RS.	(16) RS.	(17) RS.
A. IRRIGATION WORKS—cont.								
2. UNPRODUCTIVE WORKS—cont.								
9 Yerru tank ..	988	425	— 1,363	..	..	..	..	..
10 Agaluru system ..	20,949	17,800	3,149	..	..	..	..	..
11 Annakur tank ..	1,640	..	1,640	..	..	..	..	..
12 Jangamateswarapuram tank ..	838	500	338	..	..	..	..	..
13 Annasamudram-Beraperu tank ..	3,608	3,600	8	..	..	..	..	..
14 Rajipuram tank ..	3,034	..	3,034	..	..	..	..	..
15 Ponnalur tank ..	4,389	..	4,389	..	..	..	..	..
16 Markapur tank ..	8,729	2,130	6,599	..	..	..	..	..
17 Nagavalli river system ..	1,16,775	37,400	79,375	..	..	..	..	..
18 Venkatapuram tank ..	936	164	772	..	..	..	..	..
19 Bavanasi tank ..	5,003	..	5,003	..	..	..	..	..
20 Pellanur tank ..	3,248	..	3,248	..	..	..	..	..
21 Panjanatla reservoir ..	..	..	..	..	..	..	..	..
22 Siddapur tank ..	4,285	..	4,285	..	..	..	..	..
23 Nagavaram anicut and supply channel ..	4,660	2,256	2,404	..	..	..	..	..
24 Mopad reservoir system ..	42,332	433	41,899	..	..	..	..	..
25 Kauniyampalayam anicut ..	4,169	..	4,169	..	..	..	..	..
26 Tippayapalem project ..	..	..	..	..	..	..	..	..
27 Basavanna channel ..	269	..	269	..	..	..	..	..
Total, A. Irrigation Works—2. Unproductive Works ..	11,05,350	2,51,580	8,53,770	..	..	..	..	..
Total A. Irrigation Works ..	2,02,54,849	51,25,424	1,51,29,425	..	..	..	..	..
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.								
2. UNPRODUCTIVE WORKS.								
1 Vedaranyam canal ..	690	..	690	..	..	..	..	..
2 Buckingham canal ..	1,05,561	..	1,05,561	..	..	..	..	..
Total, B. Navigation, etc., works—2. Unproductive ..	1,06,251	..	1,06,251	..	..	..	..	..
Total, B. Navigation, etc. works ..	1,06,251	..	1,06,251	..	..	..	..	..
Total, construction of Irrigation, etc., works ..	2,03,61,100	51,25,424	1,52,35,676	..	..	..	..	..

APPENDIX I

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 1937-38—cont.

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Works or systems.	Revenue (actual receipts)—cont.				Working expenses.			
	Gross Revenue less refunds.		Deduct share of old irrigation revenue.		Total revenue due to improvements.		Establishment.	
	(10) RS.	(11) RS.	(12) RS.	(13) RS.	(14) RS.	(15) RS.	(16) RS.	(17) RS.
A. IRRIGATION WORKS—cont.								
1. PRODUCTIVE WORKS—cont.								
1 Cauvery delta system ..	61,191	2,44,762	3,05,953	31,803	5,06,864	1,251	..	8,45,671
2 Srivakulam ancient system ..	4,300	17,203	21,503	3,601	54,980	41	..	80,125
3 Gudavari delta system ..	81,180	3,24,721	4,05,901	2,39,803	6,66,827	8,232	..	18,10,770
4 Melamuri ancient system ..	1,048	4,192	5,240	..	10,512	53	..	15,477
5 Kodavari channel system ..	1,013	4,332	5,345	9,601	10,375	55	..	25,446
6 Vaidyanayana channel system ..	2,017	8,067	10,084	29,907	10,796	132	..	50,899
7 Vaidyanayana channel system ..	1,177	4,708	5,885	560	10,198	26	..	16,669
8 Chennambakam tank system ..	230	921	1,151	12,088	7,555	1	..	8,707
9 Marudur ancient system ..	1,939	7,754	9,693	6,188	16,135	26	..	37,936
10 I ennar rivet canal system ..	8,593	34,374	42,967	5,459	98,518	605	..	1,44,258
11 Arankota channel system ..	567	2,267	2,834	5,459	5,463	30	..	13,736
12 Sivakoyilur ancient system ..	3,967	15,370	19,337	10,379	29,314	36	..	59,625
13 Shatavasa ancient system ..	3,007	12,026	15,033	372	24,492	60	..	39,957
14 heyyar ancient system ..	1,375	5,498	6,873	2,603	23,053	69	..	39,598
15 Cumbar tank system ..	89	358	447	..	697	2	..	3,148
16 Ponnur tank system ..	1,503	6,011	7,514	1,534	27,093	79	..	36,220
17 Ponnur project system ..	10,944	43,778	54,722	15,995	1,17,881	04	..	1,83,692
18 Kistna delta system ..	57,592	2,30,367	2,87,959	66,494	5,01,085	3,280	..	8,58,318
19 Nandiyar channel system ..	377	1,509	1,886	282	4,256	8	..	6,457
20 Chikaroti minor river system ..	2,433	9,731	12,164	801	27,891	294	..	41,220
21 Lower Coleroon ancient system ..	12,494	49,076	62,470	10,372	1,06,937	279	..	1,70,058
22 Kistna East Bank Canal scheme (old Divi pumping system) ..	3,668	14,971	18,639	2,813	40,160	248	..	61,560
23 Coludur reservoir system ..	3,490	13,962	17,452	586	33,539	132	..	51,653
24 Tolayam Island project ..	1,191	4,763	5,954	2,717	3,513	132	..	18,397
25 Paavay-Mettur project ..	21,044	84,176	1,05,220	28,136	2,04,744	582	..	3,38,882
26 Kattal scheme ..	5,665	22,659	28,324	10,435	67,105	55	..	1,06,919
Total, A. Irrigation Works—1. Productive Works ..	2,92,104	11,68,656	14,60,820	4,92,309	26,04,907	15,710	..	45,73,746
2. UNPRODUCTIVE WORKS.								
1 Kurnool-Cuddapah canal ..	9,296	37,182	46,478	3,305	69,995	169	..	1,19,947
2 Barur tank ..	816	3,262	4,078	74	16,010	44	..	20,206
3 Vallur ancient system ..	83	330	413	..	14,735	..	..	2,705
4 Madras water-supply and irrigation system ..	401	1,602	2,003	283	12,448	30	..	16,787
5 Pelandur ancient system ..	1,468	5,832	7,290	808	62,406	121	..	29,051
6 Palar ancient system ..	3,180	12,640	15,800	..	..	..	..	79,135

APPENDIX I

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 1937-38—cont.

Works or systems.		Working expenses.								
		Maintenance and repairs.								
		Establishment.		Total. (19) RS.	Extensions and improve- ments. (20) RS.	Maintenance and repairs. (21) RS.	Tools and plant. (22) RS.	Deduct recoveries on revenue account. (23) RS.	Total cost of maintenance. (24) RS.	
Direction. (17) RS.	Execution. (18) RS.									
A. IRRIGATION WORKS—cont.										
2. UNPRODUCTIVE WORKS—cont.										
7 Muniyuru system		1,172	4,687	5,859	3,631	10,764	83	..	20,337	
8 Dondapad tank		27	107	134	314	..	2	..	450	
9 Yerur tank		65	259	324	..	592	4	..	920	
10 Sagluru system		301	1,214	1,515	..	2,916	7	..	4,432	
11 Annakur tank		71	286	357	503	387	5	..	1,252	
12 Jangamshewarapuram tank		7	30	37	..	23	..	..	60	
13 Annasandram-Berseru tank		42	169	211	..	611	4	..	826	
14 Halipura tank		45	182	227	..	400	2	..	629	
15 Ponnalur tank		184	734	918	..	2,437	14	..	3,419	
16 Markapur tank		195	780	975	15	1,728	4	..	2,692	
17 Nagavalli river system		2,666	10,667	13,333	520	30,758	287	..	44,898	
18 Venkatapuram tank		76	306	382	..	699	1	..	1,082	
19 Bhavanasi tank		87	346	433	..	1,183	7	..	1,573	
20 Yellanur tank		67	266	333	..	501	1	..	835	
21 Panlapatti reservoir		..	..	..	..	..	..	..	..	
22 Siddapur tank		91	367	458	160	600	2	..	1,210	
23 Nagavaram anicut and supply channel		85	340	425	..	804	2	..	1,231	
24 Mopad reservoir system		600	2,402	3,002	1,430	6,224	44	..	10,700	
25 Kanniyampalayam anicut		36	144	180	..	648	2	..	830	
26 Tippayapalem project		..	..	..	..	..	..	..	..	
27 Basavanna channel		1,005	4,021	5,026	..	10,005	28	..	15,054	
Total, A. Irrigation Works—2. Unproductive Works		22,036	88,145	1,10,181	11,017	2,49,206	857	..	3,71,261	
Total A. Irrigation Works		3,14,200	12,56,801	15,71,001	5,03,326	28,54,113	16,567	..	49,45,007	
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.										
2. UNPRODUCTIVE WORKS.										
1 Vedaranniyam canal	462		1,848	2,310	..	5,016	12	..	7,338	
2 Buckingham canal	6,887		27,548	34,435	2,050	2,12,778	235	..	2,49,498	
Total, B. Navigation, etc., works—2. Unproductive Works	7,349		29,396	36,745	2,050	2,17,794	247	..	2,56,836	
Total, B. Navigation, etc., works	7,349		29,396	36,745	2,050	2,17,794	247	..	2,56,836	
Total, construction of irrigation, etc., works	8,21,549		12,86,197	16,07,746	5,05,376	30,71,907	16,814	..	52,01,843	

APPENDIX I

C-II.—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 1937-38—cont.

Works or systems.		Working expenses—cont.				Net revenue.			
		Deduct old maintenance charges.		Total working expenses on improvements.		Total.		Due to improvements.	
		Indirect charges. (25)	Direct charges. (26)	Indirect charges. (27)	Total. (28)	Total. (29)	Total. (30)	Total. (31)	Total. (32)
A. IRRIGATION WORKS—cont.		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS—cont.									
1 Cauvery delta system		7,689	10,60,921	7,57,052	5,511	7,02,563	2,98,358	30,99,881	8,86,759
2 Srivalkuntam anicut system		622	86,380	7,462	56	7,518	78,862	1,14,380	42,898
3 Godavari delta system		9,726	15,45,769	..	..	..	15,45,769	33,61,931	32,37,931
4 M. Hanattur anicut system		102	16,563	930	6	936	15,627	8,274	5,210
5 Thedapalli channel system		200	28,260	4,414	36	4,450	23,800	1,01,765	30,215
6 Kalligayam anicut system		407	52,932	4,937	40	4,977	47,555	66,388	13,635
7 Vridhachalam anicut system		108	18,090	..	..	..	18,090	16,913	8,413
8 Chembambakkam tank system		76	10,289	6,022	54	6,076	4,213	35,914	26,990
9 Marudur anicut system		282	41,331	6,308	47	6,355	34,976	1,37,218	28,573
10 Pennar river canal system		1,047	17,5490	39,493	297	39,710	1,35,700	6,29,858	4,13,648
11 Arunkota chann l system		109	14,429	1,103	9	1,112	13,517	19,528	1,640
12 Thrakkovilur anicut system		410	62,847	7,214	49	7,263	55,584	54,258	1,521
13 Shakkotape anicut system		248	46,198	2,404	16	2,420	43,778	94,041	76,481
14 Cheyyar anicut system		257	35,556	3,965	32	3,997	31,559	60,064	25,061
15 Cumbum tank system		..	1,328	1,194	8	1,202	126	32,175	3,377
16 Policy anicut system		286	39,744	3,892	31	3,923	35,851	63,241	29,134
17 Periyar project system		1,954	2,20,068	34,752	259	35,011	1,85,057	6,55,527	4,86,538
18 Karna delta system		5,676	10,65,150	..	..	..	10,65,150	32,54,520	31,83,520
19 Nandiyar channel system		46	7,025	4,304	32	4,336	2,689	20,869	8,205
20 Chicaole minor rivers system		258	6,348	6,348	46	6,394	37,175	92,947	4,341
21 Lower Coleroon anicut system		1,486	1,96,234	10,648	73	10,721	1,85,563	2,78,295	1,34,016
22 Karna East Bank Canal scheme (old Divl pumling system)		430	75,670	16,222	122	16,344	59,326	2,90,627	2,86,671
23 Toludur reservoir system		898	56,936	..	..	..	56,936	41,591	1,31,001
24 Polavarani island project		123	23,295	..	..	..	23,295	73,007	73,007
25 Cauvery-Mettur project		2,329	3,98,580	..	..	..	3,98,580	8,51,794	7,80,025
26 Kattalai scheme		775	1,10,893	65,087	485	65,572	45,321	2,31,706	42,278
Total, A. Irrigation Works—1. Productive Works		35,581	54,33,787	9,83,721	7,209	9,90,930	44,42,857	1,37,15,712	98,32,798
2. UNPRODUCTIVE WORKS—cont.									
1 Kurnool-Cuddapah canal		733	1,35,398	4,498	30	4,528	1,30,370	2,02,002	1,70,658
2 Raur tank		161	21,216	..	..	..	21,216	2,456	2,045
3 Vellur anicut system		23	2,822	1,458	13	1,471	1,351	4,332	803
4 Madras water-supply and Irrigation system		148	17,485	4,252	38	4,290	13,195	172,981	66,271
5 Polandurai anicut system		127	22,335	170	1	171	22,164	24,433	21,604

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 1937-38—*cont.*

Works or systems.	Grand total of working expenses.			Deduct old maintenance charges.			Net revenue.		
	Indirect charges. (25) RS.	(26) RS.		Direct charges. (27) RS.	Indirect charges. (28) RS.	Total. (29) RS.	Total work- ing expenses on improve- ments. (30) RS.	Total. (31) RS.	Due to improvements. (32) RS.
A. IRRIGATION WORKS—cont.									
2. UNPRODUCTIVE WORKS—cont.									
6 Palar anicut system	632	89,832		3,818	31	3,849	86,033	2,40,162	1,19,011
7 Muniyeru system	144	22,522		295	2	297	22,225	21,968	19,765
8 Dondapad tank	3	522		..	..	..	522	864	864
9 Yerur tank	6	868		..	..	..	868	1,796	—
10 Segluru system	29	4,015		3,288	22	3,310	1,305	16,334	1,814
11 Atmakur tank	9	1,343		..	..	..	1,343	297	297
12 Jangamaheva rapuram tank	..	77		..	..	..	77	756	256
13 Annamasudram-Beraperu tank	6	852		853	6	859	27	2,776	35
14 Hallipuram tank	4	784		..	..	..	784	2,250	2,250
15 Ponnalur tank	25	3,664		..	..	..	3,664	725	725
16 Markapur tank	17	3,035		363	2	365	2,670	5,694	3,929
17 Nagavalli river system	313	48,363		3,946	29	3,975	44,388	34,987	34,987
18 Venkatapuram tank	7	1,130		..	..	..	1,130	144	308
19 Bavanasai tank	11	1,832		..	..	..	1,832	3,171	3,171
20 Yellanur tank	5	978		..	..	..	978	2,270	2,270
21 Panjapati reservoir	..	..		..	..	..	..	2,853	2,853
22 Siddapur tank	8	1,432		..	..	..	1,432	1,088	1,088
23 Nagavaram anicut and supply channel	8	1,316		..	..	..	1,316	29,692	29,692
24 Mopad reservoir system	77	12,610		..	..	..	12,610	3,324	3,324
25 Kanniyamalaiyan anicut	6	845		..	..	..	845	..	..
26 Tippiyapalem project	..	..		..	..	..	..	..	..
27 Beasavanna channel	100	15,154		..	..	..	15,154	—	—
Total, A. Irrigation Works—2. Unproductive Works	2,602	4,11,080		22,941	174	23,115	3,87,965	6,94,270	4,65,805
Total, A. Irrigation Works	38,183	58,44,867		10,06,662	7,383	10,14,045	48,30,822	1,44,09,982	1,02,98,603
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS—cont.									
2. UNPRODUCTIVE WORKS—cont.									
1 Vedranimayam canal	50	7,388		..	..	..	7,388	—	—
2 Buckingham canal	2,148	2,51,646		..	..	..	2,51,646	1,46,085	1,46,085
Total, B. Navigation, etc., works—2. Unproductive Works	2,198	2,59,034		..	..	..	2,59,034	1,52,783	1,52,783
Total, B. Navigation, etc., works	2,198	2,59,034		..	..	..	2,59,034	1,52,783	1,52,783
Total, construction of Irrigation, etc., works	40,381	61,03,901		10,06,662	7,383	10,14,045	50,89,856	1,42,57,199	1,01,45,820

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1937-38.

General Financial results to end of 1937-38.										
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 amount of interest.	Accumulated surplus revenues.	Total sum-at-charge (column (7) plus column (8)).	
	Main canals and branches.	Distributaries.								
(1)	(2)	(3)	(4)	(5)	(6-a)	(6-b)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS.										
I. PRODUCTIVE WORKS.										
1	Cauvery delta system ..	1,253½	3,205	82,41,619	31-3-1899	..	31,73,554	4,81,29,433	81,73,554	81,73,554
2	Sivakuntam anicut ..	28	46	17,75,083	31-3-1899	..	17,75,083	1,79,996	17,75,083	17,75,083
3	Godavari delta system ..	504-5/8	1,887	1,91,09,310	31-3-1899	1877-78	1,86,70,927	13,84,07,406	1,86,70,927	1,86,70,927
4	Mehamatur anicut ..	15	9½	89,053	March 1891	..	86,738	3,68,063	86,738	86,738
5	Thadapalli channel ..	86	..	1,77,446	1893	..	1,77,446	17,42,004	1,77,446	1,77,446
6	Kallagarayan channel ..	62½	..	1,80,486	1893	..	1,80,486	6,88,903	1,80,486	1,80,486
7	Vridhachalam anicut ..	38	16	1,08,204	31-3-1893	..	1,08,204	6,90,069	1,08,204	1,08,204
8	Chembarambakkam tank ..	10-7/8	1-5/8	7,64,143	31-3-1893	..	7,64,143	5,07,251	7,64,143	7,64,143
9	Marudur anicut system ..	29	7½	60,122	1893	..	60,122	39,59,585	60,122	60,122
10	Pennar river canals ..	304	477	70,67,128	31-3-1894	1860-61	69,34,703	1,09,36,552	69,34,703	69,34,703
11	Arkunkota channel ..	24	..	1,44,445	31-3-1894	..	1,44,445	85,306	1,44,445	1,44,445
12	Tirukkoyilur anicut ..	187	28½	3,99,190	31-3-1895	..	3,99,190	9,47,869	3,99,190	3,99,190
13	Shattatope anicut ..	41	149	10,89,561	31-3-1895	..	10,89,561	46,49,835	10,89,561	10,89,561
14	Cheyyar anicut system ..	61	120	5,89,990	31-3-1896	..	5,89,990	1,32,033	5,89,990	5,89,990
15	Cumbum tank ..	23½	23½	86,373	31-3-1896	..	86,373	36,014	86,373	86,373
16	Poiley anicut system ..	104	178	3,03,918	1897	..	3,03,918	13,92,132	3,03,918	3,03,918
17	Petiyar system ..	152	118	1,08,35,654	31-3-1897	1896-97	1,08,35,654	34,00,862	1,08,35,654	1,08,35,654
18	Kistna delta system ..	407½	2,285	2,26,68,524	31-3-1898	..	2,10,56,797	10,79,27,886	2,10,56,797	2,10,56,797
19	Nandiyar channel ..	31	..	65,715	1899	1895-96	65,715	9,747	75,462	75,462
20	Chinnale Minor river ..	279-3/8	78-3/8	2,89,226	31-3-1900	..	2,89,226	8,32,395	2,89,226	2,89,226
21	Lower Coleroon anicut ..	383	620	30,01,669	30-6-1903	..	30,01,669	1,38,39,296	30,01,669	30,01,669
22	Kistna East Bank canal ..	35-3/8	280½	58,83,218	31-10-1913	1917-18	56,29,456	49,051	56,78,537	56,78,537
23	Teludur Reservoir ..	31½	40	26,45,674	31-10-1925	1924-25	26,08,175	13,22,472	39,30,647	39,30,647
24	Polavaram ..	..	..	..	..	..	..	..	..	..
25	Caucery-Mettur project ..	113-5/8	44-5/8	17,08,892	28-2-1934	1929-30	16,94,936	26,596	17,21,532	17,21,532
26	Kattalai scheme ..	74-3/8	44	6,79,00,000	30-9-1934	1932-33	6,58,18,225	2,41,45,552	8,99,63,767	8,99,63,767
				44,54,432	In progress.	1929-30	39,68,419	12,91,508	52,59,927	52,59,927
Total, A. Irrigation, I										

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1937-38—cont.

Financial results of the year 1937-38.

Name of works.	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 column (11)].
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
RS.	RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	ACRES.	PER CENT.
A. IRRIGATION WORKS.										
1. PRODUCTIVE WORKS—cont.										
1. Quarry delta system ..	11,86,117	2,98,358	8,86,759	10.85	10.85	3,42,321	5,44,438	29,637	2,25,786	25.18
2. Sriyalkuntan anicut ..	1,21,760	78,862	42,898	2.42	2.42	7,32,659	25,05,272	..	16,528	64.77
3. Godavari delta system ..	47,88,700	15,45,769	32,37,931	17.16	17.16	..	..	..	9,27,536	32.31
4. Mahamattur system ..	20,837	15,627	5,210	6.01	6.01	3,632	1,528	..	4,869	75.00
5. Thadapalli channel ..	54,016	23,800	30,215	17.03	17.03	7,238	22,977	..	9,004	44.06
6. Kalagarayan channel ..	34,320	47,955	—13,635	—7.55	—7.55	7,655	..	..	7,855	139.72
7. Vridhachalam anicut ..	26,503	18,090	8,413	7.78	7.78	4,530	3,883	..	7,792	68.19
8. Chembarambakkam tank ..	30,203	4,213	25,990	3.40	3.40	28,334	26,019	2,314	3,431	13.95
9. Marudur anicut system ..	63,549	34,976	28,573	47.53	47.53	2,554	..	..	9,715	55.04
10. Pennar river canals ..	5,49,348	1,95,700	4,13,648	5.98	5.98	2,56,657	1,56,991	4,484	77,992	24.70
11. Arunkola channel ..	15,157	13,517	1,640	1.14	1.14	6,124	..	..	2,546	89.18
12. Tirukoyilur anicut ..	57,105	55,564	1,521	0.38	0.38	16,930	..	15,409	15,236	97.34
13. Shattloope .. anicut ..	1,20,239	43,778	76,461	7.02	7.02	44,795	31,666	..	35,036	36.41
14. Cheyyar anicut system ..	56,620	31,559	25,061	4.64	4.64	22,829	2,332	..	22,569	55.74
15. Cumbum tank ..	3,503	126	3,377	3.91	3.91	3,653	..	276	846	3.60
16. Polney anicut system ..	64,955	35,851	29,104	9.59	9.59	12,836	16,298	..	12,609	55.17
17. Periyar system ..	6,71,595	1,85,047	4,86,538	4.49	4.49	4,65,211	31,327	..	1,02,343	27.56
18. Krishna delta system ..	42,48,670	10,65,150	31,83,520	15.12	15.12	8,53,969	23,29,551	..	7,67,200	25.07
19. Nandiyar channel ..	10,894	2,689	8,205	12.49	10.37	2,751	5,454	..	4,007	24.68
20. Cholesole Minor river system ..	41,516	37,175	4,341	1.50	1.50	12,102	..	7,761	19,487	89.54
21. Lower Coleroon anicut ..	3,19,579	1,85,568	1,34,016	4.46	4.46	1,26,734	7,282	..	79,491	58.06
22. Kistna East Bank canal scheme ..	3,45,997	59,326	2,86,671	5.09	5.09	2,35,222	51,449	..	44,095	17.15
23. Toludur Reservoir ..	87,937	56,936	31,001	1.19	0.78	1,02,404	..	71,403	12,396	64.75
24. Polavaram .. island project ..	98,302	28,205	73,097	4.31	4.24	72,479	528	..	21,502	24.19
25. Canveyr-Mattur project ..	11,78,605	3,98,580	7,80,025	0.87	0.87	28,19,369	..	20,39,344	81,867	33.82
26. Kattalai scheme ..	87,599	45,321	42,278	1.07	0.80	1,67,969	..	1,25,721	28,575	51.74
Total, A. Irrigation, Productive Works.	1,42,75,655	44,42,857	98,32,798	6.36	5.42	64,13,572	34,19,226	..	25,40,316	31.12

C-III.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1937-38—cont.

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 arrears of interest.	Accumulated surplus revenues.	Total sum-at-charge [column (7) plus column (8)].
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
RS.	RS.	RS.	DATE.	DATE.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS								
1. UNPRODUCTIVE WORKS.								
1. Kurnool-Cuddapah canal.	417-5/8	294-7/8	Not known.	1882-83	2,33,87,114	4,09,95,455	..	6,43,82,569
2. Barur tank ..	11	26	31-3-1891	1887-88	4,51,444	4,23,147	..	8,75,158
3. Vallur anicut ..	5-5/8	8	31-3-1893	..	76,282	24,572	..	1,00,854
4. Madras Water-supply and Irrigation system.	11 1/2	..	1883	..	18,68,918	27,81,143	..	46,50,061
5. Peddural anicut ..	39	25	1883	..	6,92,074	4,15,443	..	11,07,517
6. Pakar anicut system ..	156	139	1901-02	..	24,45,906	4,86,211	..	29,32,117
7. Muniguru system ..	60 1/2	6 7/8	31-3-1903	1898-99	6,08,167	2,83,366	..	8,91,533
8. Dondapad tank ..	..	..	31-3-1907	1898-99	1,40,004	1,83,706	..	3,23,710
9. Yerur tank ..	..	..	31-3-1907	1912-13	63,353	37,188	..	1,00,541
10. Sadiyuru tank ..	12	4 1/2	31-3-1907	1898-99	4,64,727	7,05,558	..	11,70,285
11. Attankur tank ..	..	..	31-3-1907	1912-13	1,25,403	97,175	..	2,22,578
12. Jagannaheswarapuram tank ..	..	..	31-3-1908	1912-13	71,664	61,046	..	1,32,710
13. Anamasanuram Bersa-peru tank ..	..	5-1/8	31-3-1910	1911-12	73,573	74,780	..	1,48,353
14. H. Jipuram tank ..	..	2-7/8	31-3-1911	1910-11	3,11,883	2,47,579	..	5,59,462
15. Pottur tank ..	..	4 1/2	31-3-1911	1910-11	2,18,649	2,36,722	..	4,55,371
16. Markapur tank ..	..	7	31-3-1911	1909-10	1,29,340	98,835	..	2,28,175
17. Nagavalli river system.	64 1/2	47 1/2	31-12-1913	1909-10	17,59,850	4,02,152	..	21,62,002
18. Saketapuram tank ..	31	..	31-3-1918	1921-22	3,84,921	3,84,120	..	7,69,041
19. Bhatapur tank ..	6-3/8	..	31-3-1919	1920-21	2,65,491	2,65,491	..	4,79,340
20. Vallanur tank ..	..	3-7/8	31-3-1919	1920-21	2,69,707	2,69,707	..	4,46,708
21. Panjapatti Reservoir ..	..	1 1/2	31-3-1919	1924-25	3,39,276	1,77,001	..	6,11,429
22. Siddapur tank ..	..	9	31-10-1919	1921-22	3,04,486	6,47,897	..	14,52,383
23. Nagavaram anicut and supply channel ..	2	..	31-12-1919	1920-21	1,09,890	65,430	..	1,75,320
24. Moyad Reservoir ..	16-7/8	84	30-4-1921	1921-22	22,90,575	17,12,791	..	40,03,366
25. Kanniyampalayam ..	..	..	31-3-1922	1924-25	1,11,074	1,10,792	..	2,21,866
26. Tippayampalayam project ..	..	..	In progress.	Do.	5,75,735	1,03,389	..	6,79,104
27. Basavanah channel ..	..	..	Do.	Do.	5,86,021	3,23,156	..	9,14,177
28. Duvvaleru project ..	..	..	Do.	Do.	3,003	..	..	3,071
Total, A. Irrigation, Unproductive Works.	831	675-5/8	..	..	3,86,48,997	5,15,19,713	..	9,01,68,710
Total, A. Irrigation Works.	4,768	10,804 1/2	..	..	19,33,11,221	7,83,64,619	38,88,02,390	27,16,75,840

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1937-38—cont.

Financial results of the year 1937-38.

Number of works.	Name of works.	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)]
		(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20).
		RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	ACS.	PER CENT.
A. IRRIGATION WORKS.											
2. UNPRODUCTIVE WORKS.											
1	Kurnool Cuddapah canal	3,01,528	1,30,870	1,70,658	0.73	0.27	10,14,140	..	8,43,482	87,707	43.40
2	Borur tank	19,171	21,216	2,045	-0.45	-0.23	18,539	..	20,584	4,864	110.67
3	Vallur anicut	2,154	1,351	803	1.05	0.80	3,235	..	2,432	1,209	62.72
4	Madras water-supply and irrigation system.	79,466	13,195	66,271	3.55	1.43	70,855	..	4,584	4,186	16.90
5	Pelandurai system	43,768	22,164	21,604	3.12	1.95	27,983	..	6,379	10,903	50.64
6	Palar anicut system	2,05,044	86,033	1,19,011	4.83	4.03	1,02,160	16,851	..	48,155	41.96
7	Muniyuru system	41,990	22,225	19,765	3.25	2.22	25,102	..	5,337	3,779	52.93
8	Dondapah tank	1,386	522	864	0.62	0.27	5,440	..	4,576	351	37.86
9	Yerru tank	1,863	858	2,221	-3.51	-2.21	2,685	..	4,906	3	-62.59
10	Sagileru tank	3,149	1,305	1,844	0.40	0.16	19,449	..	17,605	1,001	41.44
11	Almakur tank	1,640	1,343	297	0.24	0.13	4,870	..	4,573	493	81.89
12	Jangamaheswarapuram tank	333	77	256	0.36	0.19	2,664	..	2,408	101	23.12
13	Anamasamudram	..	..	..	..	..	..	..	..	..	..
14	Beraperur tank	3,034	27	35	0.05	0.02	3,118	..	3,083	31	337.50
15	Halipuram tank	4,889	784	2,250	0.72	0.40	12,126	..	9,876	759	25.84
16	Ponnalur tank	6,599	3,664	725	0.33	0.16	8,394	..	7,669	793	83.48
17	Magavalli river system.	79,375	2,670	3,929	3.04	1.72	5,415	..	1,486	1,888	40.46
18	Venkatapuram tank	822	1,130	34,937	1.99	1.62	74,434	..	39,447	11,808	55.92
19	Bhavanasi tank	5,003	1,832	3,171	0.84	0.66	16,193	..	16,501	160	187.47
20	Yellapur tank	3,248	978	2,270	0.51	0.31	11,066	..	7,895	540	38.62
21	Pandipatti Reservoir	..	..	..	..	..	10,405	..	8,135	648	30.11
22	Siddapur tank	4,285	1,432	2,853	0.35	0.20	14,258	..	14,258	..	..
23	Nagavaram anicut and supply channel	2,404	1,316	1,088	0.99	0.62	4,667	..	3,579	273	54.74
24	Mopad Reservoir	41,899	12,640	29,259	1.28	0.73	95,444	..	66,185	4,950	80.17
25	Kanthyampalayam anicut	4,169	845	3,324	2.99	1.50	4,664	..	1,340	212	20.27
26	Tippayapalem project.	..	15,154	14,865	..	1.63	20,771	..	20,771	..	..
27	Basavanah channel	..	..	..	..	..	25,141	..	40,026	..	..
28	Duvvaleru project	..	..	..	..	..	66	..	66	..	..
Total, A. Irrigation—		8,53,770	3,87,965	4,65,805	1.21	0.52	16,37,694	..	11,71,389	1,90,045	45.44
2. Unproductive works..		1,51,29,425	43,80,822	1,02,98,693	5.33	3.80	80,51,266	22,47,337	..	27,30,361	31.93

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1937-38—cont.

General financial results to end of 1937-38.

Number of works.	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 arrears of interest.	Accumulated surplus revenues.	Total sum-at-charge [column (7) plus column (8)].
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		MILES.	MILES.	RS.	DATE.	DATE.	RS.	RS.	RS.	RS.
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.										
2 UNPRODUCTIVE WORK.										
1	Vedaranyam canal	31½	..	1,36,432	31-3-1893	..	1,36,432	7,32,309	..	8,68,732
2	Buckingham canal	262	..	90,81,993	March 1897	..	90,81,993	2,24,16,627	..	3,14,98,620
Total, 2. Unproductive works		293½	..	92,18,425	..	..	92,18,425	2,31,48,927	..	23,67,352
Total, B. Navigation, etc. works		293½	..	92,18,425	..	..	92,18,425	2,31,48,927	..	3,23,67,352
Total, Construction of Irrigation, etc., works		5,061½	10,804½	20,76,36,162	..	..	20,25,29,646	10,15,13,546	33,83,02,890	30,40,43,192

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1937-38—cont.

Number of works.	Name of works.	Financial results of the year 1937-38.									
		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 receipt to column (12) to column (11).
		(11) RS.	(12) RS.	(13) RS.	(14) PER CENT.	(15) PER CENT.	(16) RS.	(17) RS.	(18) RS.	(19) ACS.	(20) PER CENT.
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.											
2. UNPRODUCTIVE WORKS.											
1	Vedaranyam canal ..	690	7,388	— 6,698	— 4.91	— 0.77	5,772	..	12,470	..	1,070.73
2	Buckingham canal ..	1,05,561	2,51,646	— 1,46,085	— 1.61	— 0.46	3,73,775	..	5,19,860	..	238.59
	Total, 2. Unproductive works ..	1,06,251	2,59,034	— 1,52,783	— 1.66	— 0.47	3,79,547	..	5,32,330	..	243.80
	Total, B. Navigation etc., works ..	1,06,251	2,59,034	— 1,52,783	— 1.66	— 0.47	3,79,547	..	5,32,330	..	243.80
	Total, Construction of Irrigation, etc., Works.	1,52,95,676	50,89,856	1,01,45,820	5.01	3.94	84,30,813	17,15,007	..	2,730,361	33.41

C-III.—Demands and Realizations during the year 1937-38 in the Madras Presidency.
Irrigation, Navigation, Embankment and Drainage Works (classed 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)
		Balance demands 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.	Rs.
A IRRIGATION WORKS.										
1. PRODUCTIVE WORKS.										
1	Cauvery delta system ..	..	52,50,148	52,50,148	10,89,846	41,60,302	..	41,60,302	29,75,685	11,85,117
2	Sivakuntam ancient system ..	..	2,32,733	2,32,733	31,972	2,00,760	..	2,00,760	79,000	1,21,760
3	Godavari delta ..	..	57,22,065	57,22,065	8,15,265	49,07,700	..	49,07,700	1,24,000	47,83,700
4	Mehamattur ancient do.	..	1,38,438	1,38,438	5,199	24,837	..	24,837	4,000	20,837
5	Thadapalli channel do.	..	1,48,433	1,48,433	18,438	1,30,015	..	1,30,015	76,000	54,015
6	Kallangirayan channel do.	..	1,37,000	1,37,000	14,720	1,22,280	..	1,22,280	86,000	34,320
7	Vridhdachalam ancient do.	..	46,004	46,004	10,901	35,003	..	35,003	16,000	20,003
8	Chembaramba kam tank do.	..	5,821	5,821	8,618	46,208	..	46,208	16,000	30,208
9	Marudur ancient do.	..	2,05,301	2,05,301	30,752	1,74,549	..	1,74,549	2,56,000	5,49,348
10	Pennar river canals do.	..	9,11,987	9,11,987	1,06,619	8,05,368	..	8,05,368	19,000	15,157
11	Arkenkoia channel do.	..	39,781	39,781	4,984	34,797	..	34,797	60,000	1,20,239
12	Trunkoillur ancient do.	..	1,42,781	1,42,781	25,876	1,17,105	..	1,17,105	20,000	1,20,239
13	Shadiatope ancient do.	..	1,30,056	1,30,056	49,817	80,239	..	80,239	38,000	56,220
14	Cumbam tank do.	..	1,27,951	1,27,951	28,392	99,559	..	99,559	38,000	33,503
15	Pokey project do.	..	1,21,925	1,21,925	18,940	1,02,985	..	1,02,985	38,000	64,985
16	Kistna delta do.	..	10,40,265	10,40,265	2,14,670	8,25,595	..	8,25,595	2,04,000	6,21,595
17	Nandiyur channel do.	..	48,98,111	48,98,111	6,48,441	43,19,670	..	43,19,670	71,000	42,48,670
18	Chicacole minor rivers do.	..	38,291	38,291	5,397	27,894	..	27,894	17,000	10,894
19	Lower Coleroon ancient do.	..	1,83,114	1,83,114	26,598	1,56,516	..	1,56,516	95,000	41,516
20	Kistna East Bank canal scheme (old Divi pumping system) ..	..	6,55,771	6,55,771	1,81,192	4,74,579	..	4,74,579	1,55,000	3,19,579
21	Toludur reservoir system ..	..	4,20,259	4,20,259	53,962	3,66,297	..	3,66,297	20,300	3,45,997
22	Polavaram island project ..	..	1,00,502	1,00,502	1,975	98,527	..	98,527	10,590	87,937
	Cauvery Mettur do.	..	13,15,497	13,15,497	39,006	12,80,374	..	12,80,374	1,01,769	11,78,605
	Kattalai scheme ..	..	3,99,680	3,99,680	58,081	3,41,599	..	3,41,599	2,54,000	87,599
Total, A. Irrigation works—		..	2,26,42,932	2,26,42,932	34,98,433	1,91,49,499	..	1,91,49,499	48,73,844	1,42,75,655
1. Productive Works ..		..	2,26,42,932	2,26,42,932	34,98,433	1,91,49,499	..	1,91,49,499	48,73,844	1,42,75,655

C-III.—Demands and Realizations during the year 1937-38 in the Madras Presidency—*cont.*

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

Works or systems.	(1) Balance at the close of the year.	(2) Demand for the year.	(3) Total.	(4) Deduct remissions including cash refunds.	(5) Net total.	(6) Deduct amount realized at the close of the year.	(7) Actual total receipts of the year.	(8) Deduct share due to old improvements.	(9) Net revenue due to improvements.	(10)
A. IRRIGATION WORKS—<i>cont.</i>										
2. UNPRODUCTIVE WORKS.										
1 Kurnool-Uddappah canal ..	..	Rs. 3,58,753	Rs. 3,58,753	Rs. 21,353	Rs. 3,37,400	..	Rs. 3,37,400	Rs. 35,572	Rs. 3,01,828	
2 Barur tank ..	..	27,367	27,367	3,696	23,671	..	23,671	4,500	19,171	
3 Vallur ancient system ..	..	8,714	8,714	1,569	7,154	..	7,154	5,000	2,154	
4 Madras water-supply and irrigation system ..	..	94,391	94,391	3,925	90,466	..	90,466	11,000	79,466	
5 Peilandora ancient system ..	..	38,526	38,526	1,758	36,768	..	36,768	3,000	33,768	
6 Palur ..	..	3,88,085	3,88,085	58,041	3,30,044	..	3,30,044	1,25,000	2,05,044	
7 Mudiyeru system ..	..	52,273	52,273	7,733	44,540	..	44,540	2,500	41,990	
8 Doddapad tank ..	..	1,524	1,524	1,386	188	..	188	..	188	
9 Yarrur tank ..	..	3,238	3,238	4,178	..	..	..	425	..	
10 Sagluru system ..	..	22,979	22,979	2,040	20,949	..	20,949	17,800	3,149	
11 Alinakur tank ..	..	2,604	2,604	364	1,640	..	1,640	..	1,640	
12 Jangamaheewarapuram tank ..	..	1,018	1,018	185	833	..	833	500	333	
13 Anamasamudram—Bera-peru tank ..	..	4,136	4,136	328	3,808	..	3,808	3,600	208	
14 Halpuram tank ..	..	3,382	3,382	348	3,034	..	3,034	..	3,034	
15 Ponnalur do. ..	..	5,064	5,064	672	4,392	..	4,392	..	4,392	
16 Markapur do. ..	..	9,214	9,214	485	8,729	..	8,729	2,130	6,599	
17 Nagavalli river system ..	..	1,33,022	1,33,022	16,247	1,16,775	..	1,16,775	37,400	79,375	
18 Venkatapuram tank ..	..	1,061	1,061	75	986	..	986	164	822	
19 Bhavanad do. ..	..	5,060	5,060	57	5,003	..	5,003	..	5,003	
20 Yellanur do. ..	..	4,071	4,071	823	3,248	..	3,248	..	3,248	
21 Panjapatti reservoir ..	..	4,285	4,285	..	4,285	..	4,285	..	4,285	
22 Siddapur tank ..	..	5,017	5,017	357	4,660	..	4,660	2,256	2,404	
23 Nagavaram ancient and supply channel ..	..	42,512	42,512	180	42,332	..	42,332	483	41,849	
24 Mopad reservoir system ..	..	4,169	4,169	..	4,169	..	4,169	..	4,169	
25 Kanliyampalayam ancient ..	..	269	269	..	269	..	269	..	269	
26 Tipparapalem project ..	..	..	..	..	..	..	..	..	..	
27 Basavanna channel ..	..	..	..	..	..	..	..	..	..	
28 Duvvaluru project ..	..	..	..	..	..	..	..	..	..	
Total A. Irrigation Works—	..	12,40,134	12,40,134	1,34,784	11,05,350	..	11,05,350	2,51,580	8,53,770	
2. Unproductive Works	..	2,38,83,066	2,38,83,066	36,28,217	2,02,54,849	..	2,02,54,849	51,25,424	1,51,29,425	
Total, A. Irrigation Works	..									

B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.

2. UNPRODUCTIVE WORKS.										
1 Vedaranniyam canal ..	..	695	695	5	690	..	690	..	690	
2 Buckingham canal ..	..	1,05,580	1,05,580	19	1,05,561	..	1,05,561	..	1,05,561	
Total, B. Navigation, etc. Works—	..	1,06,275	1,06,275	24	1,06,251	..	1,06,251	..	1,06,251	
2. Unproductive Works..	..	1,06,275	1,06,275	24	1,06,251	..	1,06,251	..	1,06,251	
Total, B. Navigation, etc. Works	..	1,06,275	1,06,275	24	1,06,251	..	1,06,251	..	1,06,251	
Total, Construction of Irrigation, etc., Works	..	2,39,89,341	2,39,89,341	36,28,241	2,03,61,100	..	2,03,61,100	51,25,424	1,52,35,676	

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 1937-38 based on the assessment for the year.

Works or systems.	Revenue assessed during the year.									
	Direct revenue.					Indirect revenue and land revenue due to operations of canal.				
	Owner's rate.	Planta-tions.	Naviga-tion.	Miscel-laneous.	Total.	RS.	Less refunds of revenue.	Grand total.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
A. IRRIGATION WORKS.										
I. PRODUCTIVE WORKS.										
1 Cauvery delta system	RS. 81,73,554	..	3,960	677	4,769	9,406	41,51,623	227	41,60,802	
2 Srivalkuntam ancient system	17,75,063	..	1,911	..	7,322	9,233	1,91,654	127	2,00,760	
3 Godavari delta	1,88,70,927	..	6,708	1,86,101	47,793	2,40,602	46,67,444	346	49,07,700	
4 Mahamattur ancient	86,738	..	57	..	1,016	1,073	23,764	..	24,837	
5 Thadapalli channel	1,77,446	..	1,482	..	447	1,929	1,28,086	..	1,30,015	
6 Kaligirayan channel	1,80,486	..	1,569	11	212	1,792	1,17,528	..	1,30,015	
7 Vriddhachalam ancient	1,08,204	..	223	..	10	233	34,770	..	1,19,320	
8 Chembrambakkam tank	7,64,143	..	..	..	75	75	46,128	..	36,003	
9 Marudur ancient	60,122	..	695	..	866	1,561	1,77,254	266	46,203	
10 Pennar river canals	69,34,708	..	221	386	2,707	3,264	8,02,113	29	1,78,549	
11 Arkenkota channel	1,44,445	..	376	..	96	472	33,685	..	8,05,348	
12 Tirukkoyilur ancient	3,99,190	..	713	..	158	871	1,16,234	..	34,157	
13 Shatticope	10,89,561	..	162	..	210	372	1,39,867	..	1,17,105	
14 Cheyyar	5,39,999	..	12	..	1,152	1,164	94,456	..	1,40,239	
15 Gumbum tank	86,373	..	..	..	..	..	33,503	..	95,620	
16 Polney ancient	3,03,918	..	56	..	111	167	1,02,819	1	33,503	
17 Peryar project	1,08,35,554	..	1,529	538	6,688	8,755	8,66,960	120	1,02,986	
18 Kistna delta	2,10,55,797	..	3,500	1,08,640	52,420	1,64,560	41,56,063	953	8,75,595	
19 Nandiyar channel	65,715	..	275	..	58	333	27,597	36	27,894	
20 Chitacole minor rivers	2,89,226	..	5	..	220	225	1,36,291	..	1,36,516	
21 Lower Coleroon ancient	30,01,669	..	2,253	39	2,489	4,781	4,69,798	..	4,74,579	
22 Kistna East Bank canal extension scheme (old Divi pumping system)	56,29,486	..	18	516	2,338	2,872	3,63,759	334	3,66,297	
23 Toludur reservoir project	26,08,175	..	149	..	94	243	98,254	..	98,527	
24 Polavaram island	16,94,998	..	708	..	97	805	96,497	..	96,302	
25 Cauvery Mettur	6,58,18,225	..	2,401	12	25,403	27,816	12,58,148	590	12,80,374	
26 Kattalai scheme	39,68,419	..	2,444	62	1,075	3,581	3,38,074	56	3,41,599	
Total, A. Irrigation Works—1. Productive Works	15,46,62,224	..	31,427	2,96,932	1,57,826	4,86,185	1,86,66,399	3,085	1,91,49,499	

APPENDIX I

APPENDIX 1

2. UNPRODUCTIVE WORKS.										
1 Kurnool-Cuddapah canal	2,39,87,114	..	..	..	6,694	6,766	3,30,646	..	3,37,400	
2 Barur tank	4,52,011	..	..	..	1,453	1,589	22,082	..	23,671	
3 Vallur ancient system	76,282	..	..	..	..	268	6,886	..	7,154	
4 Madras water-supply and irrigation system	18,68,918	..	..	..	68,404	68,464	22,002	..	90,466	
5 Pelandora ancient system	6,92,074	..	..	..	253	682	46,146	..	46,768	
6 Palar ancient system	24,65,806	..	..	..	1,225	1,767	3,28,330	..	3,30,044	
7 Muniyeru system	6,08,167	..	..	..	1,164	1,164	43,326	..	44,490	
8 Cuddapah tank	1,40,004	..	..	..	..	..	1,386	..	1,386	
9 Yerur tank	63,353	..	..	..	..	..	938	..	938	
10 Sagileru system	4,64,727	..	..	..	74	74	20,949	..	20,949	
11 Atmakur tank	1,25,403	..	..	..	6	6	1,640	..	1,640	
12 Jangamaheswarapuram tank	71,964	..	..	..	..	..	833	..	833	
13 Anamasandram-Beraperu tank	73,573	..	..	..	..	..	3,608	..	3,608	
14 Hajipuram tank	3,11,863	..	..	..	..	..	3,034	..	3,034	
15 Ponnalur	2,18,649	..	..	..	..	..	4,389	..	4,389	
16 Markapur do.	1,28,840	..	..	..	78	78	8,651	..	8,729	
17 Nagavalli river system	17,59,580	..	..	..	434	469	1,16,306	..	1,16,775	
18 Venkatapuram tank	3,64,921	..	..	..	..	..	986	..	986	
19 Bhavanasi tank	2,65,491	..	..	..	..	..	4,967	..	5,003	
20 Yellanur tank	3,89,707	..	..	..	..	..	3,247	..	3,247	
21 Panjapatli reservoir	8,04,486	..	..	..	..	..	..	..	..	
22 Siddapur tank	1,09,890	..	..	..	..	..	4,285	..	4,285	
23 Nagavaram ancient and supply channel	22,97,575	..	..	..	..	..	4,658	..	4,660	
24 Mopad reservoir system	1,11,074	..	..	..	..	..	123	..	123	
25 Kanniyampalayam ancient	5,76,735	..	..	..	4,000	4,000	12,209	..	42,832	
26 Tippayapalem project	5,86,021	..	..	..	..	..	169	..	169	
27 Basavannah channel	3,003	..	..	..	..	..	..	..	..	
28 Duvvalent project	..	..	..	..	..	..	..	..	..	
Total, A. Irrigation Works—2. Unproductive Works	3,86,48,997	1,085	72	84,541	85,698	10,19,707	1,06,86,106	3,140	2,02,54,849	
Total, A. Irrigation Works	19,33,11,221	32,512	2,97,004	2,42,367	5,71,883	1,96,86,106	3,140	3,140	2,02,54,849	
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.										
2. UNPRODUCTIVE WORKS.										
1 Vedaranniyam canal	1,36,432	..	..	..	..	..	..	..	..	
2 Buckingham canal	90,81,993	..	..	..	..	..	..	..	..	
Total, B. Navigation, etc., Works—2. Unproductive Works	92,18,425	45	1,02,394	3,836	1,06,275	1,06,275	1,06,275	24	1,06,251	
Total, B. Navigation, etc., Works	92,18,425	45	1,02,394	3,836	1,06,275	1,06,275	1,06,275	24	1,06,251	
Total, Construction of Irrigation, etc., Works.	20,25,29,646	32,557	3,99,398	2,46,207	6,78,158	1,96,86,106	3,140	3,140	2,03,61,100	

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 1937-38 based on the assessment for the year—*cont.*

Works or systems.	Revenue assessed during the year— <i>cont.</i>					Net revenue of the year.		Percentage on capital outlay to end of the year (improvements only), RS.
	Working expenses.					Total.	Due to improvements.	
	Deduct share due to old irrigation.	Total revenue due to improvements.	Total charges (direct and indirect).	Deduct old maintenance charges.	Total working expenses on improvements.			
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS—<i>cont.</i>								
1. PRODUCTIVE WORKS.								
1 Gully delta system	29,75,685	11,85,117	10,60,921	7,62,568	2,98,358	30,99,881	8,86,759	10.85
2 Srivalkuntam anicut system ..	78,000	1,21,760	86,380	7,518	15,45,769	1,14,380	42,898	17.16
3 Godavari delta	1,24,000	47,88,700	15,45,769	..	16,627	38,61,931	32,57,931	6.01
4 Mahamathur anicut do. .. .	4,000	20,837	16,563	986	15,627	8,274	5,210	17.08
5 Thadapalli channel do. .. .	76,000	54,015	28,250	4,450	23,800	1,01,765	30,215	7.55
6 Kallagarayam channel do. .. .	85,000	34,320	52,932	4,977	47,955	66,888	18,635	7.78
7 Vridhachalam anicut do. .. .	16,000	30,203	18,090	..	18,090	16,913	8,413	3.40
8 Chembambakkam tank do. .. .	1,15,000	63,549	41,331	6,076	34,976	1,37,218	25,990	47.53
9 Marudur anicut do. .. .	2,56,000	5,49,348	1,75,490	38,790	1,35,700	6,29,858	4,13,648	5.98
10 Pennar river canals do. .. .	19,000	15,157	14,629	1,112	13,517	19,528	1,640	1.14
11 Arunkota channel do. .. .	60,000	57,105	62,847	7,263	55,584	54,258	1,521	0.38
12 Tirukkoyilur anicut do. .. .	20,000	1,20,239	46,198	2,420	48,778	94,041	76,461	7.02
13 Shaktiapo do. .. .	39,000	56,620	35,556	3,997	31,559	60,064	25,061	4.64
14 Chettyar do. .. .	30,000	8,503	1,328	1,202	126	32,175	3,377	3.91
15 Cumbum tank do. .. .	88,000	64,985	39,744	3,893	35,851	63,241	29,184	9.69
16 Polney anicut do. .. .	2,04,000	6,71,595	2,20,068	35,011	1,85,057	6,55,527	4,86,538	4.49
17 Periyar project do. .. .	17,000	2,48,670	7,025	4,336	10,65,150	32,54,520	31,83,520	15.12
18 Nandiyar channel do. .. .	96,000	41,516	43,569	6,394	37,175	20,869	8,401	12.49
19 Chisacole minor rivers do. ..	1,55,000	3,19,579	1,96,284	10,721	1,85,563	2,78,295	1,34,016	1.50
20 Lower Coleroon anicut do. ..	20,300	3,45,997	75,670	16,344	59,326	2,90,927	2,86,671	5.09
21 Krishna East Bank canal extension scheme (old Divi pumping system) ..	10,500	87,937	56,936	..	56,936	41,591	31,001	1.19
22 Toludur reservoir project .. .	..	96,302	23,295	..	23,295	73,007	73,007	4.31
23 Polavarani island do. .. .	1,01,769	11,78,605	3,98,580	..	3,98,580	8,81,794	7,80,025	1.19
24 Guntur-Mettur do. .. .	2,54,000	87,599	1,10,893	65,572	45,321	2,30,706	42,278	1.07
25 Kattalai scheme	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..
Total, A. Irrigation Works—1. Productive Works	48,73,844	1,42,75,655	54,33,767	9,90,930	44,42,857	1,37,15,712	98,32,798	6.36

2. UNPRODUCTIVE WORKS.									
	35,872	3,01,528	11,35,398	4,528	1,30,870	2,02,002	11,70,688	0.73	
1 Kurnool-Cuddapah canal	4,500	19,171	21,216		21,216	2,455	2,045	0.45	
2 Beacur tank	5,000	2,154	2,822	1,471	1,351	4,332	808	1.05	
3 Vallur anicut system									
4 Madras water-supply and irrigation system	11,000	79,466	17,435	4,290	18,195	72,981	66,271	3.55	
5 Pelandorai anicut system	3,000	43,768	22,335	171	22,164	24,433	21,604	3.12	
6 Palar anicut system	1,25,000	2,05,044	89,882	8,849	86,033	2,40,162	1,19,011	4.83	
7 Muniyeri system	2,500	41,990	22,522	297	22,225	21,968	19,765	3.25	
8 Dondapad tank		1,386	522		522	864	804	0.62	
9 Yerur tank	425	1,363	858		858	1,796	2,221	0.51	
10 Sagileru system	17,800	3,149	4,615	3,310	1,305	16,334	1,844	0.40	
11 Almakur tank		1,640	1,343		297	297	297	0.24	
12 Anamasamudram-Berapur tank	500	333	77		77	756	256	0.06	
13 Jangamaleswarapuram tank	3,900	8	832	859		2,776	35	0.05	
14 Haliapuram tank		3,034	784		784	2,250	2,250	0.72	
15 Ponnalur tank		4,399	3,664		3,664	725	725	0.33	
16 Markapur tank	2,130	6,599	3,035	365	2,970	5,694	3,929	3.04	
17 Nagavalli river system	37,400	79,375	48,363	3,975	44,388	68,412	34,987	1.99	
18 Venkatapuram tank	164	822	1,130		1,130	144	308	0.08	
19 Bhavanasi tank		5,003	1,832		1,832	3,171	3,171	1.19	
20 Yellanur tank		3,248	978		978	2,270	2,270	0.84	
21 Panjapatti reservoir		4,285	1,432		1,432	2,853	2,853	0.35	
22 Siddapur tank		2,404	1,316		1,316	3,344	1,088	0.99	
23 Nagavaram anicut and supply channel	2,256	41,809	12,640		12,640	29,692	29,259	1.28	
24 Mopad reservoir system	433		845			3,324	3,324	2.99	
25 Kanlayampalayam anicut									
26 Tipparalam project									
27 Basavanah channel									
28 Duvvaleru project									
Total, A. Irrigation works—2. Unproductive works	2,51,580	8,53,770	4,11,080	23,115	3,87,965	6,94,270	4,65,805	1.21	
Total, A. Irrigation works	51,25,424	1,51,29,425	58,44,867	10,14,045	48,30,822	1,44,09,982	1,02,98,603	5.33	
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.									
2. UNPRODUCTIVE WORKS.									
1 Vedaranyam canal		690	7,388		7,388		6,698	4.91	
2 Buckingham canal		1,06,561	2,51,646		2,51,646		1,46,085	1.61	
Total, B. Navigation, etc., works—2. Unproductive, works		1,06,251	2,59,034		2,59,034		1,52,783	1.66	
Total, B. Navigation, etc., works		1,06,251	2,59,034		2,59,034		1,52,783	1.66	
Total construction of Irrigation, etc., works	51,25,424	1,62,35,676	61,03,901	10,14,045	50,89,856	1,42,57,199	1,01,45,820	5.01	

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D-I.—Statement of traffic on the principal navigable canals in the Madras Presidency during the year 1937-38.

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(1) Length of canal open for navigation	(2) Miles.	(3) Godavari canals.	(4) Kistna east bank canal.	(5) Kurnool- Cuddapah canal.	(6) Buckin- gham canal.	(7) West coast canals.	(8) Dumma- gudem canals.	(9) Vedaran- niyam canal.	(10) Total.
Receipts—									
Tests ..	492 1/8	384 1/2	35 1/2	75	276 1/2	121	2	42 1/8	1,428 1/2
Annual licence fees ..	119	49	..	..	27	12,144	..	..	..
Annual licence fees ..	53,923	20,527	..	..	56,373	6,549	..	605	646
Registration fees ..	49,437	36,248	155	..	20,273	..	..	..	7
Wharfage fees ..	13,626	23,326	332	..	19,679	..	..	..	..
Debarment fees ..	14,177	184	4	..	419	..	..	..	..
Raft fees ..	132	..	..	..	496	..	..	..	36
Numbering fees ..	12,722	23,529	33	72	964	..	97	..	..
Ground rents ..	11,313	..	..	..	6,891	785	297	..	6
Miscellaneous ..	103	46	8	..	..	..	..	..	5
Refunds ..	61,900	..	..	..	..	..	..	..	..
Government boats and steamers ..	2,002	341	..	..	208	..	..	..	..
Boat rent ..	2,07,999	1,19,599	516	72	1,05,332	19,478	11,143	690	4,64,829
Total, Receipts ..	1,69,053	1,30,099	2,623	..	2,12,778	..	8,697	5,616	5,28,266
Maintenance charges including special navigation establishment ..	38,946	10,500	2,107	72	1,07,446	19,478	2,446	4,326	63,437
Net revenue ..	64,765	10,113	289	..	8,758	..	106	137	83,221
Total number of boats plying cargo ..	6,860	2,165	25	..	7,884	..	2,040	7,884	18,86,590
Total number of boats plying passengers ..	8,49,167	8,00,684	27,369	..	1,99,446	..	..	..	4,19,02,407
Total tonnage, cargo boats ..	89,06,539	97,32,187	57,473	..	37,67,860	..	867	55,549	1,03,301
Total tonnage, passenger boats ..	66,52,559	1,15,86,948	9,96,546	..	..	..	42,278	1,03,301	4,19,02,407
Ton mileage, up ..	1,55,59,098	2,13,19,185	10,54,319	..	37,67,860	..	43,145	1,58,850	4,19,02,407
Ton mileage, down ..	7,96,35,428	5,03,90,428	6,13,630	..	1,07,68,933	24,25,284	96,762	6,00,086	14,51,05,083
Estimated value of cargoes up ..	7,96,35,428	5,03,90,428	6,13,630	..	1,07,68,933	24,25,284	4,16,222	1,58,310	14,51,05,083
Estimated value of cargoes down ..	7,96,35,428	5,03,90,428	6,13,630	..	1,07,68,933	24,25,284	5,12,984	7,58,396	14,51,05,083
Total ..	9,86,763	1,63,385	60,120	..	1,28,561	..	155	540	13,39,474
Number of passengers ..	160	186	..	..	2	..	41,078	..	1,18,930
Rafts, tons, up ..	75,698	1,780	..	..	26	..	41,078	..	1,18,930
Rafts, tons, down ..	75,698	1,780	..	..	26	..	41,078	..	1,18,930
Total ..	75,698	1,966	..	..	28	..	41,078	..	1,18,930
Estimated value of rafts ..	86,64,397	2,10,092	..	..	4,308	..	63,96,071	..	1,46,73,868

RS. A. P.

Tollage on boats per ton per mile .. Timber.
Tollage on rafts per 100 square feet.. Bamboo.

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D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1937-38.

Description.	Godavari canals.				Kistna canals.			
	Total, Government and private.		Private.		Total, Government and private.		Private.	
	Up. (2) TONS.	Down. (3) TONS.	Total. (4) TONS.	Value. (5) RS.	Up. (8) TONS.	Down. (9) TONS.	Total. (10) TONS.	Value. (11) RS.
(1) Boat traffic.								
Cotton, raw and manufactured.	684	1,014	1,698	13,94,959	49	45	94	63,280
Woolen goods ..	4	..	4	15,290	..	..	..	2,09,541
Dyes and tans ..	983	1,381	2,374	35,24,478	3	190	193	1,95,96,594
Rice and paddy ..	101,482	40,896	142,378	1,30,68,967	85,259	80,062	165,321	28,01,318
Other food-grains ..	4,159	27,720	31,879	51,96,576	9,586	7,600	17,186	5,15,108
Hides and skins ..	26	6	32	35,568	23	768	791	2,72,640
Liquors ..	39	594	633	6,07,680	284	680	964	5,38,470
Meat ..	796	1,009	1,805	9,51,118	444	5,392	5,836	29,32,704
Meat ..	6,121	11,416	17,537	53,66,322	4,192	44,602	48,794	90,04,966
Oil-seeds ..	1,198	9,214	10,412	17,59,028	1,412	17,59,625	19,007	85,67,145
Provisions ..	51,628	41,752	93,380	2,85,41,500	18,896	9,193	28,089	3,09,267
Salt ..	6,017	3,404	9,421	8,83,523	2,765	2,144	4,909	15,370
Sugar ..	1,100	1,374	2,474	38,02,585	38	1,178	1,216	3,65,131
Sugar and jaggery ..	4,623	10,853	15,476	19,15,499	1,826	3,279	5,105	16,24,777
Tobacco ..	1,661	5,361	7,022	41,70,337	3,279	432	3,711	4,79,273
Building materials ..	127,426	278,950	406,376	1,56,94,940	33,502	379,146	412,648	23,79,552
Miscellaneous goods ..	18,687	24,737	43,424	35,90,355	10,576	19,807	30,383	23,05,291
Timber ..	1,425	16,950	18,375	28,17,223	2,909	2,909	5,818	9,66,276
Firewood ..	20,459	9,129	29,588	3,55,553	23,946	6,577	30,523	9,23,120
Bamboos ..	103	18,950	19,053	10,47,915	13,400	3,384	16,784	1,00,620
Coal and coke ..	201	876	1,077	34,164	641	1,939	2,580	19,610
Jute ..	90	170	260	31,450	15	91	106	..
Treasure ..	..	..	..	..	..	..	..	..
Kerosene oil ..	..	..	..	..	..	..	..	..
Cotton seeds ..	..	..	..	..	..	..	..	..
Poles ..	..	..	..	..	..	..	..	..
Scatterings ..	..	..	..	..	..	..	..	..
Total, Boat traffic ..	349,102	500,065	849,167	7,94,09,478	234,540	566,144	800,684	5,03,90,428
RAFT TRAFFIC.								
Timber in logs ..	40	41,167	41,207	60,98,636	90	282	372	55,056
Squared timber ..	..	55	55	12,650	21	357	378	86,940
Sleepers, broad gauge ..	..	..	..	..	..	..	..	..
Do, metre gauge ..	11	..	11	2,354	..	..	..	..
Scantlings ..	81	..	81	17,658	..	..	..	..
Poles ..	..	25	25	2,275	..	..	..	..
Firewood ..	..	..	..	..	..	..	..	..
Bamboos and reeds ..	28	34,451	34,479	19,86,824	75	1,141	1,216	68,096
Total, Raft traffic ..	160	75,698	75,858	80,64,397	186	1,780	1,966	2,10,092
Grand total ..	349,262	575,763	925,025	8,76,99,825	234,726	567,924	802,650	5,06,00,520

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D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1937-38—*cont.*

Description.	Kistna canals—cont.				Kistna East Bank Canal. *				Kurnool-Cuddapah Canal.					
	Private.		Total, Government and private.		Private.		Total, Government and private.		Private.		Total, Government and private.			
	Quantity.	Value.	Up.	Down.	Quantity.	Value.	Up.	Down.	Quantity.	Value.	Up.	Down.		
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
	TONS.	RS.	TONS.	TONS.	TONS.	RS.	TONS.	RS.						
Boat traffic.														
Cotton, raw and manufactured.	94	63,280												
Woolen goods	198	2,09,541												
Dyes and tans	165,321	1,65,06,594	2,118	114	2,232	1,82,943	2,232	1,82,943						
Rice and paddy	17,186	28,01,313	63	4	67	10,921	67	10,921						
Other food-grains	791	5,73,193												
Hides and skins	284	5,72,640												
Liquors	1,110	2,32,890	101		101	47,470	101	47,470						
Metals	9,584	20,32,704												
Oils	53,284	60,04,996	527		527	89,063	527	89,063						
Oil-seeds	28,089	85,67,145	488	8	496	1,51,280	496	1,51,280						
Provisions	4,909	3,09,297	2		2	128	2	128						
Salt	10	16,310												
Spices	2,999	3,46,131		5		575		575						
Sugar and jaggery	2,711	10,24,777	140		140	91,870	140	91,870						
Tobacco	357,650	4,50,251	35	23,317	23,352	13,363	22,711	13,096						
Building materials	37,683	23,79,852	23	101	124	11,168	124	11,168						
Miscellaneous goods	13,451	23,05,251	62		62	10,602	62	10,602						
Timber	30,523	3,66,276	222		222	2,664	222	2,664						
Firewood	16,784	9,23,120		4	4	220		220						
Bamboos	2,580	1,00,620	35		35	1,365	35	1,365						
Coal and coke	106	19,610												
Jute														
Treasure														
Kerosene oil														
Cotton seeds														
Pole														
Scantlings														
Total, Boat traffic	745,272	5,03,54,826	3,816	23,553	27,369	6,13,630	26,728	6,13,363						
Raft traffic.														
Timber in logs	372	55,056												
Squared timber	378	86,940												
Sleepers, broad gauge														
Do. metre gauge														
Scantlings														
Poles														
Firewood														
Bamboos and reeds	1,216	68,096												
Total, Raft traffic	1,966	2,10,092												
Grand total	747,238	5,05,64,918	3,816	23,553	27,369	6,13,630	26,728	6,13,363						

* One of Kistna canals separately shown for account purposes.

* One of Kistna canals separately shown for account purposes.

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1937-38—*cont.*

Description.	Buddingham canal.					West Coast canals.						
	Total, Government and private.			Private.		Total, Government and private.			Private.			
	Up. (26)	Down. (27)	Total. (28)	Value. (29)	Quantity. (30)	Value. (31)	Up. (32)	Down. (33)	Total. (34)	Value. (35)	Quantity. (36)	Value. (37)
TONS.	TONS.	TONS.	RS.	TONS.	RS.	TONS.	TONS.	TONS.	RS.	TONS.	TONS.	RS.
Boat traffic.												
Cotton, raw and manu- factured	..	3	..	3,843	3	3,843	..	..	..	..	..	..
Woolen goods	..	..	..	..	..	..	..	..	..	..	..	..
Dyes and tans	..	..	..	..	..	..	..	..	..	..	..	..
Rice and paddy	11,899	5,298	17,192	20,48,963	17,192	20,48,963	4,037	1,808	5,845	5,20,535	5,845	5,20,535
Other food-grains	558	608	1,166	1,90,068	1,166	190,068	2,242	454	2,696	4,39,448	2,696	4,39,448
Hides and skins	..	..	..	..	..	..	..	..	..	..	..	..
Liquors	..	314	..	3,01,440	314	3,01,440	..	..	..	..	..	..
Metals	1071	2,555	2,662	12,57,583	2,662	12,57,583	57	..	57	36,940	57	36,940
Oil-seeds	5	266	266	81,090	266	81,090	61	25	86	26,316	86	26,316
Oil-seeds	210	46	256	43,264	256	43,264	..	..	..	..	..	..
Provisions	1,582	3,710	5,292	16,14,212	5,292	16,14,212	76	176	252	76,860	252	76,860
Salt	23,382	13	23,395	14,73,855	23,395	14,73,855	134	1,417	1,551	97,713	1,551	97,713
Spices	..	..	..	..	..	..	..	..	..	..	..	..
Sugar and jaggery	..	40	..	7,056	42	7,056	240	16	256	42,001	256	42,001
Tobacco	..	754	..	32,088	754	32,088	..	..	..	..	..	..
Building materials	34,391	397	34,788	11,64,294	34,788	11,64,294	340	262	602	10,036	602	10,036
Miscellaneous goods	3,762	986	4,748	4,31,730	4,748	4,31,730	2,318	7,368	9,704	10,54,944	9,704	10,54,944
Timber	..	3,634	..	8,33,620	3,640	8,33,620	46	43	89	15,219	89	15,219
Firewood	102,143	2,799	104,942	12,59,310	104,942	12,59,310	145	59	204	2,448	204	2,448
Bamboos	..	64	..	344	64	344	..	..	..	..	..	..
Coal and coke	..	..	..	..	..	..	..	..	..	..	..	..
Jute	649	3	652	25,428	652	25,428	..	..	..	1,404	36	1,404
Treasure	..	..	..	..	..	..	..	..	..	..	..	..
Kerosene oil	..	..	..	..	..	..	411	..	461	1,01,420	461	1,01,420
Cotton seeds	..	..	..	..	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..
Total, Boat traffic	178,739	20,706	199,445	1,07,68,933	199,445	1,07,68,933	10,107	11,232	21,339	24,25,284	21,339	24,25,284
Raft traffic.												
Timber in logs	..	26	..	3,848	26	3,848	..	..	..	..	..	..
Squared timber	..	..	..	..	..	..	..	..	..	..	..	..
Sleepers, broad gauge	..	..	..	..	..	..	..	..	..	..	..	..
Sleepers, metre gauge	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..	..	..	..	..
Firewood	..	..	..	..	..	..	..	..	..	..	..	..
Bamboos and reeds	..	..	..	..	..	..	..	..	..	..	..	..
Total, Raft traffic	2	26	28	4,808	28	4,808	..	..	..	..	..	..
Grand total	178,741	20,732	199,473	1,07,73,841	199,473	1,07,73,841	10,107	11,232	21,339	24,25,284	21,339	24,25,284

* Figures pertain to the second half of 1937-38 only.

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1937-38—*cont.*

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Description.	Dummagudem canal.					Vedaraniyam canal.				
	Total, Government and private.			Private.		Total, Government and private.			Private.	
	Quantity.			Value.		Quantity.			Value.	
	Up. (38)	Down. (39)	Total. (40)	(41)	(42)	Up. (44)	Down. (45)	Total. (46)	(47)	(48)
	TONS.	TONS.	TONS.	RS.	TONS.	TONS.	TONS.	TONS.	RS.	TONS.
Boat traffic.										
Cotton, raw and manu- factured.	..	..	..	..	..	..	..	..	..	..
Woolen goods ..	..	..	..	47,927	..	..	..	..	..	..
Dyes and tans ..	..	..	..	8,553	..	..	..	..	..	..
Rice and paddy ..	54	234	288	31,785	195	94	214	308	25,187	308
Other food-grains ..	3	192	195	1,507	24	..	..	..	45,803	281
Hides and skins ..	..	..	..	26,400	274	..	..	..	..	..
Liquors ..	274	..	274	1,645	2	..	..	..	..	..
Metals ..	..	..	..	6,273	204	..	..	..	..	..
Oil ..	..	..	..	45,038	36	..	..	..	..	..
Oil-seeds ..	..	..	..	10,980	36	..	..	..	..	..
Provisions ..	..	..	..	27,436	4354	..	..	..	..	..
Salt ..	..	..	..	..	..	..	..	..	..	..
Sugar and jaggery ..	..	..	..	2,778	23	..	..	..	..	..
Tobacco ..	..	..	..	2,78,587	6554	..	..	..	..	..
Building materials ..	..	..	..	1,117	51	..	..	..	..	..
Miscellaneous goods ..	..	..	..	21,534	1934	..	..	..	..	..
Timber ..	..	..	..	684	4	..	..	..	..	..
Firewood ..	..	..	..	..	..	..	..	..	..	..
Bamboos ..	..	..	..	..	..	..	..	..	..	..
Coal and coke ..	..	..	..	740	4	..	..	..	..	..
Tea ..	..	..	..	..	..	..	..	..	..	..
Treasure ..	..	..	..	..	..	..	..	..	..	..
Kerosene oil ..	..	..	..	..	..	..	..	..	..	..
Cotton seeds ..	..	..	..	..	..	..	..	..	..	..
Poles ..	..	..	..	..	..	..	..	..	..	..
Scandings ..	..	..	..	..	..	..	..	..	..	..
Total, Boat traffic ..	8074	1,2324	2,040	5,12,279	2,0384	5,327	5,557	7,884	7,58,396	7,884
Raft traffic.										
Timber in logs ..	..	..	..	43,27,076	29,237	..	..	..	..	..
Squared timber ..	..	..	..	17,39,030	7,561	..	..	..	..	..
Sleepers, broad gauge ..	..	..	..	..	..	..	..	..	..	..
Do. metre gauge ..	..	..	..	..	..	..	..	..	..	..
Scandings ..	..	..	..	2,32,141	2,551	..	..	..	..	..
Poles ..	..	..	..	96,824	1,729	..	..	..	..	..
Firewood ..	..	..	..	..	..	..	..	..	..	..
Bamboos and reeds ..	..	..	..	..	..	..	..	..	..	..
Total, Raft traffic ..	8074	41,078	43,118	63,95,071	41,078	5,327	5,557	7,884	7,58,396	7,884
Grand total ..	8074	42,3104	43,118	69,08,055	43,1184	5,327	5,557	7,884	7,58,396	7,884

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 1937-38.

Name of canal.	Area charged as irrigated in acres.										Percentage of double cropped area (columns (4) and (5) on the first crop area (columns (2) and (3)).
	First crop.			Second crop.			Total.		Both seasons.		
	Flow.		Lift.	Flow.		Lift.	Total.		Both seasons.		
	(2)	(3)		(4)	(5)		(6)	(7)	(8)		
	ACS.	ACS.		ACS.	ACS.		ACS.	ACS.	ACS.		
Productive.											
1 Cauvery delta system ..	864,272	23,651	..	111,185	4,244	..	10,03,352	13,106	13,106	13,106	
2 Srirangapatna ancient system ..	22,666	2,479	..	11,412	401	..	36,958	1,338	1,338	46,98	
3 Godavari delta system ..	796,201	13,681	..	267,871	5,983	..	10,83,686	702	702	33,81	
4 Mahanadi ancient system ..	4,985	11	..	863	..	..	5,859	690	690	23,02	
5 Madanapalle channel ..	10,019	559	..	3,153	433	..	19,164	4,298	4,298	94,78	
6 Kaveri delta system ..	10,009	2,572	..	10,082	1,892	..	24,505	57	57	10,96	
7 Vriddhachalam ancient system ..	8,497	715	..	998	112	..	10,222	623	623	20,00	
8 Chennarayana tank ..	13,076	225	..	2,503	157	..	27,325	732	732	56,21	
9 Chennarayana tank ..	17,299	183	..	9,814	19	..	178,122	4,390	4,390	7,63	
10 Pennar river canals system ..	162,163	3,325	..	12,457	177	..	5,286	6	6	9,49	
11 Arakkonam canal ..	26,138	1,037	..	4,040	136	..	31,346	458	458	15,37	
12 Tirukoyilur ancient system ..	32,153	1,641	..	8,303	99	..	42,196	1,127	1,127	24,84	
13 Sadaiope ancient system ..	21,446	893	..	16,129	691	..	39,159	142	142	75,29	
14 Chettyar ancient system ..	5,399	97	..	2,864	6	..	8,368	498	498	52,22	
15 Ponnaiy tank ..	22,470	542	..	7,551	96	..	30,659	91	91	33,23	
16 Kaveri delta system ..	181,582	1,919	..	49,764	828	..	184,043	2,625	2,625	37,91	
17 Kaveri delta system ..	826,103	10,346	..	1,323	138	..	837,910	9,657	9,657	0,17	
18 Kaveri delta system ..	6,305	868	..	2,665	419	..	10,257	454	454	42,98	
19 Nandiyar channel river system ..	63,451	2,119	..	3,550	1,627	..	70,747	58	58	7,90	
20 Chinnaiy ancient system ..	107,987	2,684	..	13,193	580	..	124,424	685	685	12,43	
21 Lower Cauvery ancient system ..	52,862	1,124	..	645	4	..	53,995	764	764	0,02	
22 Krishna East Bank Canal scheme (Divi pumping system) ..	14,516	80	..	8,427	5	..	15,246	183	183	4,45	
23 Toludur reservoir project ..	13,007	63	..	8,427	5	..	21,502	2	2	64,51	
24 Palavaram Island project ..	135,315	2,502	..	14,603	434	..	1,52,854	28	28	10,91	
25 Cauvery Mettur project ..	46,215	1,717	..	15,894	859	..	64,685	3,825	3,825	34,96	
26 Kattalai scheme ..	..	..	..	..	..	..	..	..	..	..	
Unproductive.											
1 Kurnool-Cuddapah canal ..	79,267	530	..	15,790	225	..	95,812	2,174	2,174	30,07	
2 Barur tank ..	4,433	44	..	1,686	11	..	6,124	557	557	39,79	
3 Vallur ancient system ..	4,681	411	..	1,111	46	..	5,249	86	86	3,08	
4 Madras water-supply and irrigation system ..	7,058	348	..	3,086	104	..	10,596	37	37	4,97	
5 Palanur ancient system ..	12,176	242	..	679	25	..	13,122	37	37	47,51	
6 Palanur ancient system ..	76,880	3,192	..	36,606	1,437	..	118,115	411	411	0,65	
7 Muniyaru ancient system ..	9,305	69	..	2	3	..	9,379	..	..	..	
8 Dondapad tank ..	350	1	..	..	..	..	351	..	..	..	
9 Veer tank ..	79	6	..	..	..	..	85	..	..	..	
10 Sagluru system ..	3,926	31	..	1,619	25	..	5,601	72	72	41,55	

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 1937–38—cont.

Name of channel.	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.	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.
<i>Unproductive—cont.</i>								
11 Atmakur tank	488	4	1	..	493	..	493	0.20
12 Jangamaheerapuram tank	257	..	1	..	258	..	258	0.39
13 Anamasamudram Beraperu tank	998	10	3	..	1,011	..	1,011	0.28
14 Halipuram tank	643	74	42	..	759	..	759	5.86
15 Ponnalur tank	746	..	47	..	793	19	793	0.80
16 Markapur tank	1,542	66	632	158	2,398	..	2,398	48.51
17 Nagavalli river system	26,252	754	532	70	27,608	41	27,608	2.23
18 Venkatapuram tank	214	..	..	..	214	..	214	..
19 Bhavanati tank	526	14	..	..	540	..	540	..
20 Yellanur tank	78	525	..	45	648	..	648	..
21 Panjapatti reservoir	..	..	..	..	..	..	..	7.46
22 Siddapur tank	723	..	8	..	731	..	731	1.11
23 Nagavaram anicut and supply channel	604	9	343	4	960	52	960	56.61
24 Mopad reservoir	4,763	65	121	1	4,950	624	4,950	2.53
25 Kanniyampalayam anicut	312	..	..	..	312	..	312	..
26 Tippiyavapalem project	..	..	..	..	..	..	..	..
27 Basavannah channel	..	..	..	..	..	..	..	..
28 Duvvalur project	..	..	..	..	..	..	..	..

Godavari delta Kistna delta and systems	Kistna East Bank canal	First crop.		Second crop.	
		28th May to 30th November		1st December to 22nd April.	
		11th June to 31st December	1st January to 31st March.		
Penner river canals	..	..	..	Do.	1st December to 31st March.
Kurnool-Chudrapah canal	..	..	..	..	1st November to end of February.
Caundry delta	..	..	..	..	1st November to 31st March.
Sivavalkuntam anicut	..	..	..	..	1st June to 30th September.
Periyar system..	..	..	..	..	..
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 Kistna deltas the period of irrigation of first crop has been taken to be 137 days and 204 days, respectively, though it varies in each delta as shown below during the year :—					

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 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:—

Name of channel.	First crop.		Second crop.	
	Flow.	Lift.	Flow.	Lift.
Godavari delta	28th May to 30th November	..	1st December to 22nd April.	..
Do.	11th June to 31st December	..	1st January to 31st March.	..
Do.	1st July to 31st December	..	Do.	..
Do.	1st June to 30th November	..	1st December to 31st March.	..
Do.	1st June to 31st October	..	1st November to end of February.	..
Do.	1st October to 15th March	..	1st November to 31st March.	..
Do.	1st October to 15th March	..	1st June to 30th September.	..

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 1937–38.

Name of canal.	Water assessed, 1937–38.					Working expenses.		Total water-rate direct and indirect.	
	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.	Per cent on gross revenue.	Per acre irrigated.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>Productive.</i>									
1 Cauvery delta system	7,363	40,27,580	1,24,043	41,51,623	41,60,802	10,60,921	25.49	1,008,352	4.14
2 Sivakuntam anicut system	9,231	1,90,164	1,490	1,91,654	2,00,760	86,380	43.08	36,958	5.19
3 Godavari delta system	..	44,37,286	2,30,158	46,67,444	49,07,700	15,45,769	31.50	1,03,086	4.31
4 Meenamattur anicut system	..	1,25,157	196	1,25,353	1,25,549	16,563	66.69	5,859	2.83
5 Thadapalli channel	..	1,17,045	2,929	1,20,074	1,20,074	28,250	21.73	19,164	1.47
6 Kallangarayan anicut system	..	34,431	339	34,770	35,009	52,832	44.86	24,505	2.16
7 Vridhachalam anicut system	..	46,171	957	47,128	48,085	18,090	31.08	10,222	1.77
8 Chembarambakkam tank	..	1,76,975	72,170	8,02,113	8,05,348	17,5490	22.27	15,961	0.64
9 Marudur anicut system	..	7,39,934	33,257	1,77,254	1,78,549	41,331	23.15	17,822	1.51
10 Pennar river canals system	..	1,12,865	3,369	1,16,234	1,17,105	62,847	53.67	31,346	2.77
11 Arankota channel	..	1,22,836	17,031	1,39,867	1,40,239	46,198	32.94	42,196	3.31
12 Tirukkovilur anicut system	..	89,721	4,735	94,456	95,620	35,556	37.18	39,159	2.41
13 Shattakope anicut system	..	33,042	461	33,503	33,503	1,328	3.96	3,966	0.16
14 Cheyyar anicut system	..	97,331	5,488	1,02,819	1,02,985	39,714	38.59	30,659	1.30
15 Ponnay anicut system	..	7,72,119	94,841	8,66,960	8,75,595	2,20,068	25.13	1,84,043	1.20
16 Nandiyar channel system	..	39,66,507	1,89,556	41,56,063	43,19,670	10,65,150	24.66	8,37,910	1.27
17 Kistna delta system	..	27,354	243	27,597	27,894	7,025	25.18	10,257	4.96
18 Nandiyar minor river system	..	1,28,417	7,374	1,36,291	1,36,516	43,569	31.91	70,747	0.62
19 Chicaole minor anicut system	..	4,18,283	51,315	4,69,798	4,74,579	1,96,284	41.36	1,24,424	1.93
20 Lower Coleroon anicut system	..	2,76,554	87,205	3,63,759	3,68,297	75,070	20.66	53,995	6.74
21 Kistna East Bank Canal Scheme (Divi pumping system)	..	97,836	448	98,284	98,527	56,986	57.70	15,246	3.73
22 Toludur (Willingdon) reservoir	..	95,497	..	95,497	96,802	23,295	24.19	21,502	6.45
23 Polavaram island project	..	12,53,148	..	12,53,148	12,80,374	3,98,580	31.13	1,52,854	4.14
24 Cauvery-Mettur Project	..	3,37,963	121	3,38,074	3,41,599	1,10,893	32.46	64,685	8.20
25 Kattalai scheme	..	..	..	..	..	..	..	..	5.23
26	..	..	..	..	..	..	..	..	..
<i>Unproductive.</i>									
1 Kurnool-Cuddapah canal	..	3,27,654	2,982	3,30,646	3,37,400	1,35,398	40.13	95,812	1.41
2 Barur tank	..	21,300	782	22,082	22,671	21,216	89.63	6,124	3.46
3 Vallur anicut system	..	5,812	1,074	6,886	7,154	2,822	39.45	5,249	0.54

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 1937-38—cont.

during 1937-38—cont.

Name of canal.

Average of
discharge of
the year at
canal head
in cubic feet
per second.

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

(9)

(10)

(11)

Unproductive—cont.

4 Madras water-supply and irriga-

tion system

5 Pelendurai ancient system

6 Palar ancient system

7 Kunjyeru ancient system

8 Dundapad tank

9 Yerru tank

10 Sagilleru system

11 Almakur tank

12 Jangamatheswarapuram tank

13 Anamasamudram-Beraperu tank

14 Halipuram tank

15 Ponnalur tank

16 Markapur tank

17 Nagavalli river system

18 Venkatesapuram tank

19 Bhavanasi tank

20 Yellalur tank

21 Panjapatti reservoir

22 Siddapur tank

23 Nagavaram ancient and supply

channel

24 Moped reservoir

25 Kaniyampalayam ancient

6 Tippiyapalem project

7 Beasvannah channel

Duvvaleru project

Water assessed, 1937-38.

Total direct and indirect.

Gross and assessed revenue from all sources.

Working expenses.

Area charge as irrigated during the years

Total water-rate, direct and indirect.

Per acre irrigated.

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 1347 (1937-38).

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

Districts.	Names of systems.	Area actually irrigated.				
		First crop.		Second crop.		Total.
		Flow.	Lift.	Flow.	Lift.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	1. Productive works.	ACS.	ACS.	ACS.	ACS.	ACS.
Vizagapatam ..	Chicacole minor rivers system.	62,369	2,119	3,442	1,627	69,557
East Godavari ..	Polavaram island system.	13,007	63	8,427	5	21,502
West Godavari ..	Godavari delta system ..	360,333	5,020	109,059	1,593	476,005
Kistna ..	Godavari delta system ..	412,002	8,661	158,437	4,340	583,440
	Godavari delta system ..	1,015	..	163	..	1,178
	Total ..	773,350	13,681	267,659	5,933	1,060,623
West Godavari ..	Kistna delta system ..	38,423	189	120	12	38,744
Kistna ..	Kistna delta system ..	428,941	4,098	350	80	433,469
Guntur ..	Kistna delta system ..	341,866	6,059	850	46	348,821
	Total ..	809,230	10,346	1,320	138	821,034
Kistna ..	Divi cum Kistna Eastern Bank canal system.	52,694	1,124	5	4	53,827
Nellore ..	Pennar river canals system	155,059	3,325	12,334	77	170,995
Coimbatore ..	Arakkankottai channel ..	4,632	187	432	26	5,277
	Tadepalle channel ..	14,964	559	3,153	433	19,109
	Kalingarayan channel ..	9,914	2,572	10,032	1,892	24,410
Chingleput ..	Chembrambakkam tank ..	12,755	225	2,457	157	15,594
North Arcot ..	Poincy anicut system ..	19,614	528	7,233	96	27,471
Chittoor ..	Poincy anicut system ..	1,411	14	318	..	1,743
	Total ..	21,025	542	7,551	96	29,214
North Arcot ..	Cheyar anicut system ..	19,594	893	15,755	691	36,933
Chingleput ..	Cheyar anicut system ..	438	..	374	..	812
	Total ..	20,032	893	16,129	691	37,745
South Arcot ..	Tirukkoyilur anicut system.	25,034	1,037	4,040	136	30,247
	Shattiatope anicut system.	30,076	1,641	8,303	99	40,119
	Mohamaitur anicut system.	4,901	11	863	..	5,775
	Vriddhachalam anicut system.	8,023	715	898	112	9,748
	Willingdon reservoir ..	14,426	80	646	5	15,157
	Lower coleroon anicut system.	82,711	2,008	9,787	347	94,853
Tanjore ..	Lower coleroon anicut system.	22,605	676	3,406	213	26,900
	Total ..	105,316	2,684	13,193	560	121,753
Tanjore ..	Cauvery delta system ..	793,190	20,498	87,904	3,043	904,635
Trichinopoly ..	Cauvery delta system ..	42,865	3,153	22,313	1,201	69,532
	Total ..	836,055	23,651	110,217	4,244	974,167
Tanjore ..	Cauvery-Mettur Project ..	132,810	2,502	14,601	434	150,347
Trichinopoly ..	Nandiyar channel system.	6,111	868	2,665	419	10,063
	Kattalai scheme ..	45,201	1,717	15,865	859	63,642
Madura ..	Periyar system ..	127,890	1,919	49,719	828	180,356
Ramnad ..	Periyar system ..	635	..	..	..	635
	Total ..	128,525	1,919	49,719	828	180,991
Tinnevely ..	Sriyakkuntam anicut system.	21,036	2,479	11,412	401	35,328
Kurnool ..	Marudur anicut system ..	16,865	193	9,814	19	26,891
	Cumbum tank ..	5,257	97	2,864	6	8,224
	Total of productive works.	3,328,667	75,230	578,141	19,301	4,901,369

under Productive and Unproductive works and the value of crops fasli 1347 (1937-38).

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.
58	65,315	22,88,084	3,350	88,866	892	5,400	69,557	23,82,350
2	21,465	8,41,659	102	2,703	37	407	21,502	8,42,156
7,120	444,711	2,21,57,899	372	15,872	30,305	25,29,075	475,118	2,46,89,474
6,701	528,649	2,68,03,747	..	..	52,666	7,72,962	581,687	2,75,92,581
..	1,178	37,802	..	..	..	..	1,178	37,602
13,821	974,588	4,89,99,045	474	18,575	82,971	33,02,037	1,057,983	5,23,19,657
6	38,563	23,06,974	96	3,818	181	1,009	38,744	23,07,976
4,602	427,046	2,38,85,929	48	1,373	5,672	2,83,386	433,414	2,41,73,133
5,079	342,883	1,92,50,743	144	5,191	5,890	1,43,869	348,821	1,93,95,985
9,687	809,092	4,54,43,646	7	406	11,743	4,28,257	820,979	4,58,77,094
764	52,450	28,20,879	..	..	1,370	2,55,152	53,827	30,76,237
4,390	161,060	89,08,428	3,620	1,14,145	6,315	50,227	170,995	90,72,800
6	5,108	3,29,097	20	1,180	149	7,941	5,277	3,38,198
690	15,654	11,18,061	45	2,737	3,410	1,74,020	10,109	12,90,418
4,298	17,676	11,60,581	1,504	91,323	5,230	6,74,540	24,410	19,76,894
623	12,699	5,62,365	475	12,794	2,413	2,05,421	15,537	7,80,580
90	21,691	10,98,528	3,228	1,21,832	2,551	9,358	27,470	12,29,718
1	1,274	79,292	297	14,625	172	855	1,743	94,772
91	22,965	11,77,820	3,525	1,36,457	2,723	10,213	29,213	13,24,490
142	32,906	15,89,704	2,266	97,622	1,758	26,663	36,930	17,13,989
..	744	37,231	45	1,543	22	43	811	38,817
142	38,650	16,26,935	2,311	99,165	1,780	26,706	37,741	17,52,806
458	24,786	13,27,662	2,815	1,04,036	2,646	82,277	30,247	15,13,975
1,127	36,259	14,28,957	823	32,292	3,037	33,090	40,119	14,93,739
702	5,126	2,73,098	108	3,259	341	5,615	5,775	2,82,872
57	8,589	3,25,961	234	6,562	925	10,910	9,748	3,41,433
183	14,051	7,52,465	134	5,801	972	13,118	15,157	7,71,884
511	91,673	48,01,015	354	9,072	2,826	20,405	94,853	48,30,492
174	26,017	12,68,714	129	6,185	754	99,284	26,900	13,74,188
685	117,690	60,69,729	483	15,257	3,580	1,19,689	121,753	62,04,675
11,520	871,438	4,16,98,512	4,533	1,55,718	28,650	34,52,303	904,621	4,53,06,533
1,586	66,348	40,89,376	563	20,494	2,613	1,18,506	69,524	42,28,376
18,106	937,786	4,57,87,888	5,096	1,76,212	31,263	35,70,809	974,145	4,95,34,909
28	146,103	60,10,960	416	12,588	3,748	1,57,402	150,267	61,80,950
454	8,186	4,21,144	532	18,023	1,395	72,427	10,063	5,11,594
3,825	54,385	30,76,538	245	10,128	8,852	4,19,772	68,482	35,06,438
2,624	171,252	1,19,86,287	3,459	1,01,845	3,011	7,27,929	177,722	1,23,16,061
1	602	31,226	10	151	14	123	635	31,500
2,625	171,854	1,20,17,513	3,478	1,01,996	3,025	7,28,052	178,357	1,23,47,561
1,388	31,441	12,47,474	205	6,412	5,620	1,08,045	35,266	13,61,931
732	25,031	12,05,565	170	5,011	1,526	1,37,664	26,727	13,48,240
498	7,256	3,83,581	98	3,640	875	32,866	8,224	4,20,087
60,390	3,780,185	19,55,98,185	30,307	10,72,086	1,85,038	1,06,32,747	3,995,510	20,73,03,968

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

Districts.	Names of systems.	Area actually irrigated.				
		First crop.		Second crop.		Total.
		Flow.	Lift.	Flow.	Lift.	
		(3)	(4)	(5)	(6)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	2. Unproductive works.	ACS.	ACS.	ACS.	ACS.	ACS.
Vizagapatam	Nagavalli river system	24,248	754	497	70	25,569
Kistna	Muniyuru anicut system	8,890	89	2	3	8,984
Guntur	Jangamaheswarapuram tank.	246	..	1	..	247
	Atmakur tank	389	4	1	..	394
	Dondapad tank	318	1	..	..	319
	Bhavanasi tank	524	14	..	..	538
Nellore	Mopad reservoir	4,749	65	121	1	4,936
	Hajipuram tank	585	74	42	..	701
	Ponnalur tank	699	..	47	..	746
	Anamasamudram-Biraperu tank.	959	10	3	..	972
	Yerur tank	..	6	..	..	6
Cuddapah	Sagileru system	3,784	31	1,619	25	5,409
	Chepad channel	9,838	7	1,584	120	11,529
	Nagavaram anicut and supply channel.	559	9	343	4	915
Kurnool	Markapur tank	1,542	66	622	158	2,388
	Siddhapur tank	723	..	..	..	723
	Venkatapuram tank	204	..	8	..	212
Cuddapah	Kurnool-Cuddapah canal.	36,731	121	5,990	30	42,872
	Do.	32,110	402	8,236	75	40,823
	Total	68,841	523	14,226	105	83,695
Anantapur	Yellanur tank	14	525	45	..	584
Salem	Barur tank	4,103	44	1,636	11	5,794
Coimbatore	Kanniyani palayam anicut.	212	..	..	..	212
Chingleput	Madras water-supply and irrigation system.	6,586	348	3,083	104	10,121
	Vallur anicut system	3,158	411	1,032	46	4,647
North Arcot	Palar anicut system	51,211	1,932	25,520	502	79,165
Chingleput	Do.	19,230	1,260	10,908	935	32,333
	Total	70,441	3,192	36,428	1,437	111,498
South Arcot	Pelandorai anicut system.	11,676	242	679	25	12,622
	Total of Unproductive works.	223,233	6,395	61,999	2,109	293,741
	Grand total of "Productive" and "Unproductive" works.	3,551,905	81,625	640,140	21,410	4,295,080

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 (5,829 + 62) = 5,891 acres.

under Productive and Unproductive Works and the value of crops
falsi 1347 (1937-38)—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)
	ACS.	RS.	ACS.	RS.	ACS.	RS.	ACS.	RS.
41	25,072	10,30,588	67	2,018	425	38,537	25,569	10,71,143
..	8,913	4,31,369	..	..	51	930	8,964	4,32,299
..	187	5,837	..	..	80	350	247	6,187
..	301	11,927	3	79	90	342	394	12,348
..	304	19,133	10	714	5	200	319	20,047
..	520	31,972	3	244	15	325	538	32,541
162	4,599	3,86,130	122	5,256	215	4,674	4,936	3,96,060
624	552	34,704	80	3,764	69	1,515	701	39,983
19	574	23,414	2	55	168	1,680	744	25,149
..	963	35,897	2	50	17	100	972	36,047
..	6	184	..	..	..	..	6	184
72	4,123	2,21,665	659	24,004	622	8,326	5,409	2,53,995
35	8,312	5,60,008	698	22,822	2,488	37,516	11,498	6,20,346
52	692	23,887	37	1,448	186	800	915	26,135
..	1,535	75,489	420	17,715	433	5,460	2,388	98,614
..	548	29,727	..	..	183	3,165	731	32,892
..	199	11,360	..	..	5	50	204	11,410
578	20,106	11,74,258	94	3,252	22,672	3,70,918	42,872	15,48,428
1,561	19,520	12,10,423	3,313	1,28,056	17,985	2,61,587	40,818	16,00,066
2,139	39,626	23,84,681	3,407	1,31,308	40,657	6,32,505	83,690	31,48,494
..	167	4,809	147	6,773	270	4,700	584	16,282
..	4,243	2,39,306	358	12,528	1,188	1,17,683	5,794	3,69,497
557	9,336	13,914	..	..	7	635	212	14,449
77	9,336	3,68,002	388	7,911	502	32,194	10,121	4,08,107
86	4,046	1,95,400	141	4,331	480	4,230	4,647	2,03,961
365	68,818	31,23,432	4,232	1,73,683	6,091	31,392	79,141	33,33,457
46	30,466	13,43,249	1,396	40,020	472	2,829	32,333	13,86,098
411	99,284	44,71,681	5,627	2,13,653	6,563	34,221	111,474	47,19,555
37	11,280	4,73,923	122	3,631	1,220	10,960	12,622	4,88,514
4,312	225,473	1,10,84,957	12,388	4,58,304	55,919	9,40,978	293,879	1,24,84,239
64,702	4,005,637	20,66,82,142	43,595	15,30,340	240,957	1,15,73,725	4,289,189	21,97,87,307

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

Civil districts.	Of the Civil districts.			Works supplying irrigation.		Culturable area com- manded by the irrigation works in column 5.
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	Number and name.		
	(1)	(2)	(3)	(4)	(5)	
	ACS.	ACS.	ACS.			ACS.
Vizagapatam ..	5,218,193	2,246,278	2,800,909	1 Chicacole minor rivers system	70,000	
				2 Nagavalli river system	31,200	
				3 Minor works	116,756	
				Total	216,956	
East Godavari ..	3,980,608	2,001,955	1,372,838	1 Godavari delta system	396,253	
				2 Polavaram island system	18,648	
				3 Minor works	94,862	
				Total	509,763	
West Godavari ..	1,511,021	1,309,401	991,884	1 Godavari delta system	565,000	
				2 Kistna delta system	43,120	
				3 Minor works	608,120	
				Total	608,120	
Kistna	2,269,786	1,626,616	1,220,961	1 Kistna delta system	543,000	
				2 Godavari delta system	80,000	
				3 Divi system	80,000	
				4 Muniyeru anicut system	13,024	
				5 Minor works	20,903	
				Total	656,927	
Guntur	3,683,824	2,749,791	2,390,737	1 Kistna delta system	357,000	
				2 Bhavanasi tank	2,448	
				3 Dondapad tank	2,880	
				4 Atmakur tank	1,160	
				5 Jangamaheswarapuram tank	960	
				6 Minor works	26,534	
				Total	390,982	
Kurnool	4,860,656	2,882,109	2,111,417	1 Kurnool-Cuddapah canal	319,869	
				2 Venkatapuram tank	1,700	
				3 Cumbum tank	6,000	
				4 Markapur tank	1,701	
				5 Siddapur tank	4,250	
				6 Minor works	47,146	
				Total	380,666	
Bellary	3,643,265	2,509,404	3,067,073	Minor works	55,460	
Anantapur ..	4,307,053	3,534,909	2,076,301	1 Yellanur tank	1,641	
				2 Minor works	153,233	
				Total	154,874	
Cuddapah ..	3,724,695	2,073,652	1,185,173	1 Kurnool-Cuddapah canal including Chepad reservoir.	37,700	
				2 Sagileru system	26,576	
				3 Nagavaram anicut and supply channel	894	
				4 Minor works	102,629	
				Total	167,799	
Nellore	5,087,200	2,988,548	1,481,345	1 Pennar river canal system	190,000	
				2 Mopad reservoir system	13,890	
				3 Ponnalur tank	1,973	
				4 Anamasamudram Biraperu tank	1,000	
				5 Yerur tank	3,176	
				6 Hajipuram tank	2,900	
				7 Minor works	136,956	
				Total	349,805	

Presidency for the revenue year ending 30th June 1938.

Area at present culti- vated by annually irrigable by the works specified in column (5).	Area irrigated in acres.			Rainfall.		
	Revenue year ending 30th June 1937.			Revenue year ending 30th June 1938.		
	Kharif I crop.	Rabi II crop.	Total.	Kharif I crop.	Rabi II crop.	Total.
(7)	(8)	(9)	(10)	(11)	(12)	(13)
ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.
66,800	65,070	2,304	67,374	64,488	5,069	69,557
27,500	26,145	1,308	27,453	25,002	587	25,589
115,756	120,891	16,990	137,881	106,775	11,904	118,679
210,056	211,906	20,602	232,508	196,265	17,540	213,805
377,000	360,712	105,411	466,123	365,353	110,652	476,005
17,500	12,294	8,907	16,201	18,070	8,432	21,502
94,862	95,563	6,692	101,255	82,026	2,194	84,220
489,362	468,569	115,010	583,579	460,449	121,278	581,727
414,500	412,280	156,797	569,057	420,663	162,777	583,440
43,129	37,802	178	37,980	38,612	132	38,744
457,829	42,772	1,055	43,827	35,868	511	36,379
445,300	432,163	1,096	433,258	433,039	430	433,469
42,000	43,340	1,286	44,626	43,818	9	43,827
10,000	9,054	28	9,082	8,959	5	8,964
20,903	17,651	52	17,703	21,280	197	21,477
518,208	503,034	2,479	505,513	518,111	804	518,915
330,000	336,234	2,019	338,303	347,925	896	348,821
841	464	42	506	538	..	538
250	339	178	517	319	..	319
460	366	..	366	398	1	398
290	233	55	288	246	1	247
26,534	23,055	2,805	25,860	21,629	1,311	22,940
858,375	380,741	5,099	365,840	371,050	2,209	3,73,259
103,743	43,715	6,964	50,679	36,852	6,020	42,872
340	195	..	195	204	..	204
5,980	5,123	3,649	8,772	5,354	2,870	8,224
1,583	1,070	924	1,994	1,608	780	2,388
3,730	430	..	430	723	8	731
47,146	40,575	5,290	45,865	42,536	6,016	48,552
162,522	91,108	16,827	107,935	87,277	15,694	1,02,971
55,406	46,843	9,786	56,629	45,529	6,182	51,711
925	427	..	427	539	45	584
153,233	122,041	34,916	156,957	117,719	29,140	1,46,859
154,158	122,468	34,916	157,384	118,258	29,185	1,47,443
19,876	40,574	8,173	48,747	42,357	9,995	52,352
4,500	4,051	420	4,471	3,765	1,644	5,409
894	534	367	951	568	347	915
102,629	89,730	19,927	109,657	96,950	24,729	121,679
127,699	134,939	28,887	163,826	143,640	36,715	180,355
162,500	159,155	4,622	163,777	158,884	12,611	170,995
12,500	2,827	276	3,103	4,814	122	4,936
1,000	793	34	827	699	47	746
1,000	958	1	959	969	3	972
34,470	1,192	..	1,193	..	..	6
700	688	121	809	659	42	701
136,956	129,163	7,828	136,991	129,602	10,161	139,763
316,136	294,776	12,883	307,659	295,133	22,986	318,119

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

Civil districts.	Of the civil districts.			Works supplying irrigation.		Culturable area com- manded by the irri- gation works in column (6).
	Total area.	Culturable area.	Cultivated area.	Number and name.		
	(1)	(2)	(3)	(4)	(5)		(6)
		ACS.	ACS.	ACS.		ACS.
Chingleput ..	1,965,897	1,123,295	1,051,369	1 Palar anicut system ..	..	24,102
				2 Chembarambakam tank ..	..	24,478
				3 Vallur anicut system ..	..	6,794
				4 Cheyyar anicut system ..	..	540
				5 Madras water-supply and Irrigation system.	..	10,165
				6 Minor works ..	..	358,578
				Total ..		424,657
South Arcot ..	2,693,024	1,893,792	1,611,080	1 Lower Coleroon anicut system ..	..	86,000
				2 Shattatope anicut system ..	..	43,965
				3 Vriddhachalam anicut system ..	..	16,359
				4 Mehamathur anicut system ..	..	10,651
				5 Tirukkoyilur anicut system ..	..	45,977
				6 Pelandurai anicut system ..	..	16,677
				7 Willingdon Reservoir ..	..	28,800
				8 Minor works ..	..	300,198
				Total ..		548,627
North Arcot ..	2,982,386	1,715,573	1,570,136	1 Palar anicut system ..	..	80,930
				2 Cheyyar anicut system ..	..	28,921
				3 Poiney anicut system ..	..	23,824
				4 Minor works ..	..	231,647
				Total ..		365,322
Chittoor ..	3,778,865	1,676,758	945,270	1 Poiney anicut system ..	..	113,908
				2 Minor works ..	..	..
				Total ..		113,908
Salem ..	4,517,107	2,731,310	1,904,820	1 Barur tank ..	..	6,887
				2 Minor work ..	..	105,998
				Total ..		112,885
Coimbatore ..	4,544,563	2,781,030	2,284,627	1 Tadepalle channel ..	..	16,000
				2 Arakkankottai channel ..	..	6,000
				3 Kallangarayan channel ..	..	15,000
				4 Kaniyamalayam anicut ..	..	1,600
				5 Minor works ..	..	69,310
				Total ..		107,910
Trichinopoly ..	2,825,870	2,235,390	1,523,300	1 Cauvery delta system ..	..	44,667
				2 Nandiyar channel ..	..	9,480
				3 Kattalai scheme ..	..	40,000
				4 Minor works ..	..	120,308
				Total ..		214,455
Tanjore ..	2,896,898	1,740,095	1,512,991	1 Cauvery delta system ..	..	864,867
				2 Lower coleroon anicut system ..	..	31,233
				3 Cauvery-Mettur Project ..	..	528,487
				4 Minor works ..	..	65,961
				Total ..		1,490,048
Madura ..	3,061,218	2,214,938	1,439,119	1 Periyar system ..	..	Not known.
				2 Minor works ..	..	181,046
				Total ..		181,046
Ramnad ..	3,140,268	2,224,075	1,389,461	1 Periyar system ..	..	..
				2 Minor works ..	..	38,362
				Total ..		38,362
Tinnevely ..	2,788,727	2,118,536	1,440,678	1 Srivaikuntam anicut system ..	..	33,500
				2 Marudur anicut system ..	..	17,920
				3 Minor works ..	..	187,167
				Total ..		238,587
				Total of productive and unproductive works.		4,753,167
				Total of minor works ..		2,519,082
Grand total ..	72,681,204	46,376,345	35,371,439			7,272,249

Presidency for the revenue year ending 30th June 1938—cont.

Area at present es- timated as annually irrigable by the works specified in column (6).	Area irrigated in acres.						Rainfall.	
	Revenue year ending 30th June 1937.			Revenue year ending 30th June 1938.			1936-37.	1937-38.
	Kharif I crop.	Rabi II crop.	Total.	Kharif I crop.	Rabi II crop.	Total.	(14) INCHES.	(15) INCHES.
	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	
416,242	24,102	19,795	2,308	22,103	20,490	11,843	32,333	39.76
18,000	12,560	3,746	16,306	12,980	2,614	15,594	1,078	60.65
5,216	4,448	164	4,612	3,569	1,078	4,647	374	812
494	395	162	557	438	374	812	10,121	
9,852	8,673	1,320	7,993	6,934	8,187	10,121	469,002	
358,578	321,476	76,961	398,437	333,570	135,432	469,002		
416,242	365,347	84,661	450,008	377,981	154,528	532,509		
84,244	84,012	8,383	92,395	84,719	10,134	94,853	39.78	56.98
32,000	31,482	8,982	40,464	31,717	8,402	40,119		
5,829	9,021	592	9,613	8,738	1,010	9,748		
5,000	4,917	385	5,302	4,912	863	5,775		
28,000	25,676	4,325	30,001	26,071	4,176	30,247		
12,837	11,755	883	12,638	11,918	704	12,622		
25,000	14,334	1,700	16,034	14,506	651	15,157		
300,198	264,362	72,100	336,462	275,008	87,431	362,439		
496,108	445,549	97,350	542,899	457,589	113,371	570,960		
54,566	45,346	13,259	58,605	53,143	26,022	79,165	32.12	46.73
22,193	19,340	8,980	28,320	20,487	16,446	36,933		
22,462	16,691	3,601	29,292	20,142	7,329	27,471		
231,647	194,534	66,073	260,207	213,437	117,624	331,061		
330,868	275,911	91,913	367,824	307,209	167,421	474,630		
113,903	1,380	289	1,669	1,425	318	1,743	32.74	41.36
113,903	88,461	27,203	115,664	88,254	29,254	117,508		
113,903	89,841	27,492	117,333	89,679	29,572	119,251		
3,750	3,847	1,332	4,679	4,147	1,647	5,794	32.38	34.35
105,998	91,630	39,076	130,706	91,568	40,521	132,089		
109,748	94,977	40,408	135,385	95,715	42,168	137,883		
15,400	15,675	2,509	18,184	15,523	3,586	19,109	26.68	27.79
4,845	4,779	568	5,337	4,819	458	5,277		
12,239	12,348	10,933	23,281	12,486	11,924	24,410		
213	208	..	208	212	..	212		
69,310	65,759	20,275	86,034	64,740	19,967	84,707		
102,007	98,769	34,275	133,044	97,780	35,935	133,715		
44,008	45,440	22,048	67,488	46,018	23,514	69,532	28.50	42.47
7,084	6,897	2,827	9,724	6,979	3,084	10,063		
36,623	44,649	13,797	58,446	46,918	16,724	63,642		
120,308	103,462	47,607	151,069	111,470	58,023	169,493		
208,023	200,448	86,279	286,727	211,385	96,345	307,730		
856,918	707,689	84,169	881,868	813,638	90,947	904,635	35.22	51.05
23,685	23,361	3,048	26,409	23,281	3,619	26,900		
177,000	141,015	11,500	152,515	135,312	15,035	150,347		
65,961	35,739	3,864	39,103	36,456	2,249	38,705		
1,123,564	997,804	102,081	1,099,885	1,008,737	111,850	1,120,587		
143,000	128,916	54,272	183,188	129,809	50,547	180,356	31.54	33.10
181,046	110,248	38,170	148,418	115,468	32,756	148,224		
274,046	239,164	92,442	331,606	245,277	83,308	328,580		
38,362	290	..	290	635	..	635	32.66	34.19
38,362	33,618	17,795	51,413	33,226	16,322	49,548		
38,362	33,908	17,795	51,703	33,861	16,322	50,183		
25,685	24,239	18,127	42,366	23,515	11,813	35,328	33.82	31.65
17,920	17,076	15,005	32,081	17,058	9,833	26,891		
187,167	173,550	109,857	283,407	169,787	88,353	258,140		
230,772	214,865	142,989	357,854	210,360	109,999	320,359		
3,774,147	3,572,888	599,882	4,172,770	3,633,530	661,550	4,295,080		
2,519,032	2,210,913	622,622	2,833,735	2,232,898	715,277	2,948,175		
6,293,179	5,783,801	1,222,204	7,006,005	5,866,428	1,376,827	7,243,255	35.04	35.83

APPENDIX II.

I.—Statement showing the financial results of irrigation under productive and unproductive works for fasli 1347 (1937-38).

Systems.	Area charged as irrigated and area irrigated free of charge.					Second crop.				Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.
	First crop.		Total.	Old irrigation.	New irrigation.							
	Old irrigation.	New irrigation.										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)			
	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.			
(i) Productive Works.												
1 Cauvery delta system	7,43,647	1,44,276	8,87,923	33,919	31,510	1,15,429	66,43,624	51,16,699	10,89,119			
2 Srivakuntam ancient system	14,580	10,565	25,145	5,850	5,963	11,813	2,64,116	2,22,010	31,846			
3 Godavari delta system	1,56,150	6,53,732	8,09,882	..	2,78,804	2,73,804	66,05,726	52,52,205	8,14,919			
4 Mahanadi ancient system	980	4,006	4,986	..	863	3,598	39,180	28,767	5,199			
5 Tadapalle channel	9,980	5,888	15,868	170	3,416	3,596	1,65,660	1,43,595	18,438			
6 Kalingarayan channel	8,300	4,281	12,581	8,350	3,574	11,924	1,49,320	1,31,765	14,720			
7 Vriddhachalam ancient system	2,430	6,782	9,212	1,160	1,010	1,010	44,350	45,382	10,901			
8 Chembrambakkam tank	11,370	1,931	13,301	1,160	1,500	2,660	76,254	53,789	8,618			
9 Marudur ancient system	17,020	472	17,492	580	9,243	9,833	2,40,718	2,07,461	30,486			
10 Pennar river canals system	99,080	66,408	1,65,488	1,060	11,584	12,644	9,89,586	8,36,524	1,06,590			
11 Arakkankottai channel	2,730	2,098	4,828	..	448	478	44,625	4,984	4,984			
12 Trunkoyilur ancient system	16,080	11,090	27,170	30	4,146	4,146	1,85,059	1,38,541	25,676			
13 Shetvalope ancient system	7,160	26,634	33,794	..	8,402	8,402	2,30,152	1,72,653	49,817			
14 Cheygar ancient system	14,980	7,379	22,359	1,630	15,160	16,820	1,62,909	1,18,113	28,392			
15 Cumbum tank	4,850	646	5,496	2,500	200	2,870	42,384	37,490	4,448			
16 Periyar ancient system	15,550	7,462	23,012	2,500	5,147	7,647	1,51,320	1,16,270	18,939			
17 Kistna delta system	65,600	67,851	1,33,451	16,100	34,492	50,592	10,86,954	9,86,669	2,14,550			
18 Nandiyar channel system	70,710	7,65,739	8,36,449	1,491	1,491	1,461	56,78,385	46,13,995	6,47,488			
19 Chicalole minor rivers system	44,680	2,493	46,173	1,870	5,174	3,084	2,30,169	32,715	5,361			
20 Lower Coleroon ancient system	51,260	14,310	65,570	..	5,177	5,177	2,30,169	1,56,015	26,598			
21 Divi cem Kistna East Bank canal	44,760	65,911	1,10,671	170	13,583	13,753	8,73,415	5,99,475	1,81,192			
22 Willington Reservoir	9,900	44,086	53,986	..	9	9	3,32,903	3,30,182	53,628			
23 Polavaram Island Project	2,590	12,006	14,596	260	390	650	1,02,600	99,811	1,975			
24 Cauvery-Mettur Project	69,257	68,560	1,37,817	1,730	8,432	8,432	99,403	99,403	3,906			
25 Kattalai scheme	27,860	20,072	47,932	8,200	13,307	15,037	13,30,142	12,87,681	34,533			
Total ..	14,71,504	20,27,448	34,98,952	86,009	5,12,868	5,98,877	2,63,14,879	2,12,60,379	34,90,348			

(ii) Unproductive Works.									
1 Kumool-Cuddapah canal	6,643	8,258	69,901	...	14,331	14,331	3,27,924	3,00,926	18,903
2 Chelapad channel	1,406	8,490	9,896	...	1,628	1,628	51,157	48,089	2,438
3 Palar tank	1,380	3,147	4,477	...	1,217	1,217	30,232	24,996	3,696
4 Vallur ancient system	4,080	1,062	5,092	...	1,47	1,47	1,416	1,372	1,580
5 Madras water-supply and irrigation system	5,680	1,776	7,406	...	2,510	2,510	33,511	25,465	3,925
6 Palar ancient system	2,120	10,299	12,419	...	804	804	78,751	57,818	11,758
7 Palar ancient system	53,890	26,192	80,072	...	21,973	21,973	4,79,155	3,69,496	57,998
8 Muniyuru ancient system	600	8,774	9,374	...	5	5	63,113	51,047	7,783
9 Dondapad tank	...	351	351	...	...	...	1,314	1,314	138
10 Saguru system	...	5	5	...	...	...	3,150	3,150	4,176
11 Anakur tank	...	57	3,957	...	...	...	29,270	22,879	2,080
12 Jangamabeswarapuram tank	...	492	492	...	...	...	2,440	1,998	364
13 Jangamabeswarapuram-Birapur tank	...	107	257	...	...	...	1,800	1,018	185
14 Halpuram tank	...	108	1,008	...	...	...	3,644	4,135	528
15 Ponnatur tank	...	717	717	...	...	...	6,315	3,312	348
16 Karkapur tank	...	746	746	...	...	...	8,797	9,135	675
17 Nagavalli river system	...	450	1,808	...	...	...	1,38,242	1,11,050	16,247
18 Venkatesapuram tank	...	1,158	27,006	...	...	...	1,070	1,023	75
19 Bhavanadi tank	...	161	214	...	...	...	3,024	5,024	57
20 Palar tank	...	540	540	...	...	...	3,444	2,966	823
21 Pajjapatti reservoir	...	608	608	...	...	...	...	...	...
22 Siddhapur tank	...	723	723	...	...	...	4,285	4,285	...
23 Nagavaram ancient and supply channel	...	161	161	...	...	...	4,707	3,998	357
24 Mopad reservoir	...	4,828	4,828	...	...	...	37,352	37,219	180
25 Kanuampalayam ancient	...	212	212	...	...	...	169	...	...
Total	92,234	1,50,363	2,42,597	23,721	39,682	63,403	13,29,746	11,03,100	1,34,729
Grand total (of productive and unproductive works)	1,563,738	2,177,811	3,741,549	109,730	552,550	662,280	2,76,44,625	2,23,63,479	36,25,077

Systems.	Direct receipts.			Indirect receipts.			Total.	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 and other waste lands.		
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1 Cauvery delta system	40,27,580	33,90,209	6,37,371	1,13,060	10,571	412	1,24,043	7,81,414
2 Srivakuniam ancient system ..	1,90,164	79,000	1,11,164	1,423	67	37,987	1,490	1,92,654
3 Godavari delta system	44,37,286	1,24,000	43,13,286	1,84,010	8,161	79	2,30,186	46,43,444
4 Mahamathur ancient system ..	23,586	4,000	19,586	94	23	..	2,929	19,784
5 Tadepalle channel	1,25,157	76,000	49,157	2,890	39	..	483	32,086
6 Kalingarayan channel	1,17,045	85,000	32,045	419	64	..	339	32,528
7 Viddachalam ancient system ..	34,431	8,500	25,931	302	17	20	957	30,228
8 Chembambakkam tank	45,171	16,000	29,171	898	59	..	279	62,254
9 Marudur ancient system	1,76,975	1,15,000	61,975	46,060	3,711	22,408	72,179	5,46,113
10 Pennar river canal system ..	7,29,934	2,56,000	4,73,934	372	56	..	428	14,685
11 Arakkankotai channel	33,257	19,000	14,257	323	76	..	3,869	56,234
12 Tirukkovilur ancient system ..	1,12,865	60,000	52,865	16,713	318	..	17,031	1,19,867
13 Shaligram ancient system	1,22,836	20,000	1,02,836	3,196	104	1,435	4,735	55,456
14 Cheyar ancient system	89,721	39,000	50,721	443	18	..	461	3,503
15 Chubbun tank	33,042	30,000	3,042	5,299	131	..	5,438	64,519
16 Polney ancient system	7,72,119	38,000	59,331	5,299	131	..	5,438	64,519
17 Kistia delta system	39,66,507	2,04,000	5,68,119	16,389	4,940	74,512	94,841	6,82,960
18 Nandiyar channel system	27,354	17,000	10,354	59	18	166	243	10,597
19 Chioscote minor rivers system ..	1,28,417	95,000	33,417	7,065	738	71	7,874	3,14,798
20 Lower Coimbatore ancient system	4,18,283	1,55,000	2,63,283	51,197	318	..	51,515	3,43,459
21 Lower Coimbatore East Bank canal	2,76,554	20,300	2,56,254	13,253	4,086	69,866	87,205	3,43,459
22 Whilgodon reservoir	97,896	10,580	87,246	448	..	..	448	97,694
23 Polavarum reservoir	95,497	..	95,497	..	..	..	..	95,497
24 Gavvay-Mettur Project	12,53,148	1,01,769	11,51,379	..	..	..	..	11,51,379
25 Kattalai scheme	8,37,953	2,54,000	83,953	..	..	100	121	84,074
Total	1,77,70,081	52,88,368	1,24,81,663	5,67,059	50,260	2,79,049	8,96,368	1,88,78,081

(11) Unproductive works—cont.

	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 and other waste lands.	Total.	Total of columns (13) and (17).
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1 Kurbedi-Guddeppah canal	2,82,093	28,285	2,53,738	1,129	926	383	2,438	2,56,176
2 Barur tank	25,431	7,587	17,844	505	26	..	531	38,586
3 Vallur ancient system	21,300	4,500	16,800	181	..	..	782	17,582
4 Madras water-supply and irrigation system	21,540	5,000	16,540	1,087	7	601	1,074	1,886
5 Palnadurai ancient system	44,060	11,000	33,060	441	21	..	462	11,002
6 Palur ancient system	3,11,468	3,000	48,060	57	21	8	86	43,146
7 Muniyerni ancient system	43,264	1,25,000	1,86,468	15,520	320	1,012	16,852	2,03,320
8 Donadapad tank	1,376	..	1,376	8	58	..	62	40,826
9 Yerur tank	..	425	..	..	2	..	10	1,366
10 Saglani system	20,849	17,800	3,049	22	64	..	86	1,368
11 Almakur tank	1,634	..	1,634	..	4	..	26	3,075
12 Jangamthetwarapuram tank ..	833	500	333	..	..	..	..	1,634
13 Anamesundran-Birapur tank ..	3,607	3,600	7	..	..	..	..	3,338
14 Rajipuram tank	2,964	..	2,964	..	15	17	70	3,034
15 Ponnalur tank	4,389	..	4,389	..	..	..	..	4,389
16 Markapur tank	8,650	2,130	6,520	..	..	..	..	6,521
17 Nagavalli river system	94,803	37,400	57,403	4,548	1,092	15,363	21,503	78,906
18 Venkatapuram tank	4,948	164	4,784	33	..	5	38	822
19 Bhavanasi tank	4,967	..	4,967	..	..	..	..	4,967
20 Yellanur tank	2,143	..	2,143	..	613	491	1,104	3,247
21 Panjapatli reservoir	1,285	..	1,285	..	..	..	..	1,285
22 Siddhapur tank	3,641	2,256	1,385	..	..	..	..	1,385
23 Nagavaram ancient and supply channel	37,039	433	36,606	..	..	..	..	37,039
24 Mopad reservoir	169	..	169	..	..	..	..	169
25 Kanniyampalayam ancient	..	..	..	..	..	..	..	..
Total	9,63,371	2,51,580	7,16,791	24,993	2,558	23,785	51,336	7,68,127
Grand total (of productive and unproductive works).	1,87,38,402	55,39,948	1,31,98,454	5,92,052	52,818	3,02,884	9,47,704	1,41,46,158

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 1936, is shown below:—

	Direct receipts.	Indirect receipts.	Total revenue.
	RS.	RS.	RS.
Old irrigation	28,86,777	88,908	29,75,685
New irrigation	11,40,803	35,135	11,75,938

[Prepared by the Board of Revenue, B.P. No. 128, dated 30th September 1938.]

STATEMENT II.

Sl. items.	Net receipts, direct and indirect.				Gross indirect receipts.			
	1937-38.		1937-38.		1937-38.		1937-38.	
	Average for five years ending 1935-36.	Actuals, 1936-37.	Revised estimates.	Actuals.	Actuals, 1936-37.	Revised estimates.	Actuals.	Actuals.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
(I) Productive Works.								
1 Cauvery delta system	17,40,286	16,70,578	17,08,058	7,25,364	1,24,043	1,24,043	1,24,043	1,24,043
2 Srivaikuntam anicut system ..	1,40,205	1,39,502	1,37,130	1,07,021	1,490	1,490	1,490	1,490
3 Godavari delta system	45,65,128	49,38,489	43,74,279	43,18,171	2,29,876	2,30,158	2,30,158	2,30,158
4 Mahanadi anicut system	21,313	22,641	16,980	18,780	2,929	2,929	2,929	2,929
5 Tadapalle channel	62,261	64,851	63,315	49,482	2,929	2,929	2,929	2,929
6 Kalingarayan channel	46,897	43,443	41,949	30,902	383	383	383	383
7 Vriddhachalam anicut system ..	24,377	34,681	27,803	24,357	339	339	339	339
8 Chembrambakkam tank	47,481	35,761	31,081	28,622	957	957	957	957
9 Pennar anicut system	87,791	58,287	87,087	39,141	279	279	279	279
10 Pennar river canals system ..	6,01,679	5,89,764	6,33,764	5,19,928	71,945	72,179	72,179	72,179
11 Arakkankottai channel	19,443	19,286	18,596	13,951	428	428	428	428
12 Tirukkoyilur anicut system ..	77,500	73,693	65,008	53,422	3,369	3,369	3,369	3,369
13 Shadiyakope anicut system ..	1,54,003	1,60,892	1,30,725	1,13,874	17,031	17,031	17,031	17,031
14 Cheyyar anicut system	70,646	65,491	53,831	52,755	4,735	4,735	4,735	4,735
15 Cumbum tank	6,165	8,501	3,158	3,328	461	461	461	461
16 Polney anicut system	80,553	39,942	62,109	61,581	5,488	5,488	5,488	5,488
17 Periyar system	8,16,645	8,51,011	8,22,285	6,83,538	94,841	94,841	94,841	94,841
18 Kistna delta system	42,01,211	42,85,897	38,07,955	38,84,407	1,89,656	1,89,656	1,89,656	1,89,656
19 Nandiyar channel system	12,585	15,133	11,449	10,075	243	243	243	243
20 Chicacole minor rivers system ..	61,776	57,638	67,334	39,230	7,874	7,874	7,874	7,874
21 Lower Coleroon anicut system ..	4,42,456	4,59,495	4,29,090	2,99,058	51,515	51,515	51,515	51,515
22 Divi cum Kistna East Bank Canal ..	2,12,756	3,10,953	2,91,442	3,29,779	87,205	87,205	87,205	87,205
23 Willington reservoir	98,271	83,237	83,254	83,309	448	448	448	448
24 Polavaram Island system	1,08,415	1,01,410	90,631	90,722	..	..	..	..
25 Cauvery-Mettur Project	10,71,271	11,25,126	10,94,379	10,94,379	..	..	..	..
26 Kattalai scheme	47,736	1,06,679	49,615	79,575	121	121	121	121

(II) Unproductive Works.

1 Kurnool-Cuddapah canal	2,61,382	2,70,241	2,54,419	2,43,386	2,399	2,438	2,438	2,438
2 Chedap channel	36,724	34,881	36,119	36,069	554	554	554	554
3 Barur tank	17,489	16,892	15,865	16,733	782	782	782	782
4 Palar anicut system	3,082	3,077	2,668	1,792	1,074	1,074	1,074	1,074
5 Madras water-supply and irrigation system ..	15,160	10,517	13,926	10,452	462	462	462	462
6 Pelandora anicut system	52,968	54,443	44,285	40,989	86	86	86	86
6 Palar anicut system	2,00,550	1,03,084	1,02,573	1,93,205	16,852	16,852	16,852	16,852
7 Munjiru anicut system	43,512	45,608	41,775	38,781	62	62	62	62
8 Dondapad tank	545	3,288	1,408	1,317	10	10	10	10
9 Yerru tank	2,219	1,988	4,338	2,921	86	86	86	86
10 Sagluru system	1,903	1,800	1,650	1,552	26	26	26	26
11 Annakur tank	537	436	438	316	..	..	..	..
12 Jangamabeswarapuram tank	344	335	417	316	..	..	..	..
13 Anamasamudram-Bilrapuri tank ..	2,433	3,345	2,147	2,883	1	1	1	1
14 Halpuram tank	4,585	4,892	3,800	4,170	70	70	70	70
15 Ponnalur tank	5,168	5,168	4,637	4,170	..	..	..	..
16 Markapur tank	87,049	87,726	86,894	75,784	21,503	21,503	21,503	21,503
17 Nagavalli river system	1,246	1,045	1,045	781	38	38	38	38
18 Venkatapuram tank	4,357	4,560	4,760	4,719	1	1	1	1
19 Bhavanasi tank	3,076	3,162	2,542	3,109	1,104	1,104	1,104	1,104
20 Vellalur tank	..	..	..	..	..	..	..	..
21 Panjapatti reservoir	3,505	4,158	2,623	4,071	..	..	..	..
22 Sidhapur tank	1,766	1,846	1,722	2,325	146	146	146	146
23 Nagavaram anicut and supply channel ..	34,171	17,194	20,353	39,913	5,170	5,170	5,170	5,170
24 Mopad reservoir	..	..	..	161	..	..	..	..
25 Kanuypampalayam anicut	..	..	..	..	..	..	..	..

Prepared by the Board of Revenue—B.P. No. 128, dated 30th September 1938.

APPENDIX III.

Statement showing the extent irrigated and the revenue derived under
 “Minor works ” for fasli 1347 (1937-38).

Districts.	Area irrigated and charged and area irrigated free of charge.		Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deduction.	Net revenue due to irrigation.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	ACS.	ACS.	RS.	RS.	RS.	RS.
WORKS IN CHARGE OF THE REVENUE DEPARTMENT.						
Vizagapatam	60,336	6,647	2,16,830	1,47,996	77,835	70,161
East Godavari	64,723	1,629	2,52,725	1,90,194	44,913	1,45,281
West Godavari	21,443	112	78,737	65,795	12,970	52,825
Kistna	10,835	9	54,928	48,165	10,228	37,937
Guntur	21,065	966	1,18,657	88,860	21,747	67,113
Nellore	57,760	3,199	2,80,975	2,33,219	51,283	1,81,936
Cuddapah	63,806	14,164	2,92,760	2,46,004	74,926	1,71,078
Anantapur	90,811	20,529	4,10,977	3,55,272	1,42,558	2,12,714
Bellary	19,723	2,395	89,730	79,181	31,567	47,614
Kurnool	28,007	2,967	1,10,256	93,278	28,002	65,276
Chittoor	92,320	26,857	5,08,055	4,08,211	1,40,604	2,67,607
Chingleput	165,435	50,744	6,55,981	4,76,445	78,297	3,98,148
North Arcot	164,994	81,427	10,42,492	7,66,589	1,46,809	6,19,780
South Arcot	166,428	50,287	10,07,474	7,45,203	1,56,967	5,88,236
Tanjore	31,594	1,469	88,510	66,120	14,312	51,808
Trichinopoly	58,958	19,613	3,05,347	2,34,352	46,277	1,88,075
Madura	77,980	14,438	3,81,843	3,10,762	83,398	2,27,364
Rannad	18,166	8,194	1,18,608	1,00,626	15,742	84,884
Tinnevelly	87,720	35,761	4,88,630	4,16,490	1,03,759	3,12,731
Coimbatore	21,288	7,148	1,31,265	1,09,923	14,629	95,294
Salem	73,405	26,794	4,51,825	3,07,620	1,17,950	1,89,670
Total of Minor works— Revenue Department ..	1,396,797	375,349	70,87,605	54,90,305	14,14,773	40,75,532

WORKS IN CHARGE OF THE PUBLIC WORKS DEPARTMENT.						
Vizagapatam	60,469	5,620	2,97,930	2,01,625	1,00,251	1,01,374
East Godavari	27,530	565	1,24,474	93,465	30,508	62,957
West Godavari	19,058	399	87,312	74,009	15,460	58,549
Kistna	11,277	188	60,033	51,602	10,462	41,140
Guntur	4,171	345	25,394	19,673	5,142	14,531
Nellore	79,365	6,973	4,58,889	3,80,713	58,336	3,22,377
Cuddapah	39,643	10,781	2,04,692	1,74,379	28,104	1,46,275
Anantapur	45,692	8,611	2,66,971	2,29,506	1,16,850	1,12,656
Bellary	31,946	4,372	2,48,391	2,19,441	60,561	1,58,880
Kurnool	17,479	3,049	86,685	74,159	12,434	61,725
Chittoor	9,817	2,397	69,302	55,285	27,100	28,185
Chingleput	194,524	84,760	8,91,275	6,55,038	1,00,899	5,54,139
North Arcot	63,851	36,197	4,41,395	3,27,994	58,306	2,69,688
South Arcot	126,120	37,166	8,72,820	6,38,275	1,37,449	5,00,826
Tanjore	14,024	705	44,153	32,776	6,914	25,862
Trichinopoly	61,204	33,628	4,43,928	3,35,120	68,897	2,66,223
Madura	50,475	18,318	3,47,529	2,82,784	77,388	2,06,396
Ramanud	16,086	8,128	1,27,442	1,08,927	14,778	94,149
Tinnevely	92,916	58,713	9,68,750	8,13,712	1,30,915	6,82,797
Coimbatore	45,903	12,819	3,22,036	2,63,406	40,907	2,22,499
Salem	29,852	13,955	2,19,842	1,49,296	53,743	95,553
Total of Minor works—	1,041,402	347,689	66,09,243	51,81,185	11,55,404	40,25,781
Public Works Department						
Grand total of Minor works	2,438,199	723,038	1,36,96,848	1,06,71,490	25,70,177	81,01,313

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APPENDIX IV.

Statement showing the number of wells used for irrigation in fasli 1347—Parts I and II.

Serial number and name of district.	Part I.					Part II.				
	Wells which lie in the wet ayacutts of recognized sources of irrigation.					Wells which have independent ayacutts of their own.				
	Wells in actual use.					Wells in actual use.				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		Number.	Area irrigated.	Number of wells in working order but not used.	Number of abandoned wells.	Total number of wells [columns (2) (4) and (5)].	Number.	Area irrigated.	Number of wells in working order but not used.	Number of abandoned wells.
			ACR.							Total number of wells [columns (7) (9) and (10)].
1 Vizagapatam ..	3,271	4,450	534	2	505	4,300	515	332	59	11
2 East Godavari ..	47	183	32	..	..	49	25	159	..	..
3 West Godavari ..	1	32	..	..	..	1	785	961	..	..
4 Kistna ..	1,109	3,411	312	..	..	1,524	1,155	7,434	75	13
5 Guntur ..	1,943	4,697	431	..	..	2,897	5,262	13,414	1,243	1,123
6 Nellore ..	7,152	13,413	2,348	..	..	10,894	7,182	29,444	1,925	1,345
7 Cuddapah ..	8,520	18,441	1,236	..	..	11,017	23,566	77,612	1,987	1,357
8 Anantapur ..	814	2,264	443	..	..	1,460	18,277	61,432	1,533	3,204
9 Bellary ..	826	143	522	..	..	1,060	4,045	10,496	2,813	1,472
10 Kurnool ..	18,234	23,562	1,915	..	..	22,433	6,357	19,776	699	2,515
11 Chingleput ..	19,533	27,698	2,054	..	..	25,755	10,416	16,345	786	677
12 Chittoor ..	50,781	91,386	3,816	..	..	59,577	11,044	20,242	5,429	3,344
13 North Arcot ..	19,307	42,143	4,314	..	..	26,029	68,995	85,657	..	5,459
14 South Arcot ..	11,075	13,345	552	..	..	12,080	..	..	..	..
15 Tanjore ..	9,430	13,368	1,352	..	..	11,982	50,356	86,380	889	3,163
16 Trichinopoly ..	3,074	10,450	1,281	..	..	4,589	38,366	104,484	1,148	2,930
17 Madurai ..	11,669	20,528	3,430	..	..	15,717	19,310	86,900	1,239	1,973
18 Ramnad ..	2,769	12,186	318	..	..	3,99	26,516	45,853	2,085	1,891
19 Tirunelveli ..	20,136	43,991	4,630	..	..	27,297	90,143	357,032	1,580	8,799
20 Coimbatore ..	..	..	..	..	..	..	74,570	119,926	3,323	6,120
21 Salem ..	..	..	..	..	..	..	457,375	1,094,082	27,596	47,196
Total	189,191	350,541	29,980	23,439	242,510	457,375	1,094,082	27,596	47,196	532,167

REVIEW OF THE ADMINISTRATIVE ACCOUNTS OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS OF THE MADRAS PRESIDENCY, FOR THE YEAR 1937-38.

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 1937-38, in comparison with those of the previous year, 1936-37 :—

(1)	Total invested (direct and indirect and all arrears of simple interest) to end of		Gross receipts (direct and indirect) during
	1936-37.	1937-38.	
	RS.	RS.	RS.
A. Irrigation works—			
1. Productive	17,85,00,814	18,15,07,130	1,63,71,421
2. Unproductive	8,87,99,883	9,01,68,710	7,84,985
B. Navigation, etc., works—			
2. Unproductive	3,18,35,022	3,23,67,252	1,10,690
	Gross receipts (direct and indirect) during 1937-38.	Working expenses (direct and indirect) during	
	(5)	1936-37.	1937-38.
	RS.	RS.	RS.
A. Irrigation works—			
1. Productive	1,42,75,655	44,16,681	44,42,857
2. Unproductive	8,53,770	3,63,815	3,87,965
B. Navigation, etc., works—			
2. Unproductive	1,06,251	2,37,653	2,59,084

	Net revenue during		Percentage on capital invested during	
	1936-37.	1937-38.	1936-37.	1937-38.
	(8)	(9)	(10)	(11)
	Rs.	Rs.		
A. Irrigation works—				
1. Productive	1,19,54,740	98,32,798	6.70	5.42
2. Unproductive	4,21,170	4,65,805	0.47	0.52
B. Navigation, etc., works—				
Unproductive	1,26,963	1,52,783	0.40	0.47

A. IRRIGATION WORKS.

1. 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. Although the construction estimate for item 25 (Cauvery-Mettur Project) was closed on 30th September 1934, the completion report is still under scrutiny. The Kattalai Scheme (item 26) is still in progress. Under the orders of Government in G.O. Ms. No. 1685, Public Works, dated 14th August 1937, and Memorandum No. 2928-D/37-3, dated 22nd October 1937, the accounts of the Kistna East Bank Canal Scheme (which formed part of the Kistna Delta System) were amalgamated with those of the Divi Pumping System (vide item 22 of Account No. I—General Abstract for 1936-37) and the name of the latter was also changed to "The Kistna East Bank Canal Extension Scheme."

4. During the year under review there was a net decrease in revenue to the extent of 20.95 lakhs (i.e., a decrease of 21.50 lakhs on 21 systems and an increase .55 lakh in the case of three systems) as compared with the revenue of last year. The decrease in revenue occurred in the case of the following systems, viz., the Cauvery Delta (2.73 lakhs), Srivaikuntam (.33 lakh), Godavari (6.72 lakhs), Thadapalli (.16 lakh), Kalingarayan (.13 lakh), Vriddhachalam (.10 lakh), Chembrambakkam (.08 lakh), Marudur (.31 lakh), Pennar River canals (.73 lakh), Arkenkota (.05 lakh), Tirukkoyilur (.22 lakh), Shatiatepe (.50 lakh), Cheyyar (.14 lakh), Cumbum (.05 lakh), Periyar (2.30 lakhs), Kistna Delta (4.64 lakhs), Nandiyar (.05 lakh), Chicacole Minor Rivers (.19 lakh), Lower Coleroon (1.68 lakhs), Polavaram (.11 lakh), and Kattalai (.28 lakh). This decrease is mainly attributed to the proportionate share of the land revenue concessions which were, in previous years, borne by the Revenue Department having been, for the first time, taken in reduction of Irrigation revenue of the Public Works Department. The fall in revenue in respect of the Cumbum tank is further reported to be due to insufficient supply of water, that, in respect of Srivaikuntam and Marudur anicuts, to the failure of south-west monsoon during the "Kar" season, and that, of the Chembrambakkam tank, to the ryots

having raised their second crop only in the month of May with a view to evade fasaljasti. The increase in revenue was in respect of the following systems, viz., the Poiney Anicut (.22 lakh), Kistna East Bank Canal Extension Scheme (.15 lakh) and Cauvery-Mettur Project (.18 lakh).

5. As compared with the previous year, there was a net increase of nearly .26 lakh in the working expenses of the year under review and it is made up of an increase of 2.35 lakhs in the case of some of the systems and a decrease of 2.09 lakhs in other cases.

The increase of 2.35 lakhs was noticed in respect of the Godavari Delta, Mehamattur Anicut, Kalingarayan Channel, Tirukkoyilur Anicut, Lower Coleroon Anicut, Kistna East Bank Canal Extension Scheme and Toludur Project, and it is explained to be due to the following causes:—

- Godavari Delta* (1.35 lakhs).—Installation of 3 feet shutters over the Godavari Anicut and write-back of the cost of old shutters from "Capital" to "Revenue" account.
- Mehamattur Anicut* (.07 lakh).—Execution of flood repairs and special repairs to Perambalur tank.
- Kalingarayan Channel* (.24 lakh).—Execution of the work of providing stem shutters to the channel.
- Tirukkoyilur Anicut* (.27 lakh).—Carrying out of improvements to the anicut and the construction of a dividing wall in rear of Malattur Headsluice.
- Lower Coleroon Anicut* (.23 lakh).—Construction of an inlet above the Vettu Vaikal and the execution of (1) the work of connecting Kanjankollai lands direct to lower anicut and (2) certain flood and special repairs in the South Arcot and River Conservancy divisions and to the north of the Lower Anicut.
- Kistna East Bank Canal Extension Scheme* (.12 lakh).—Increased expenditure due to the transfer of certain works from the Kistna Delta System.
- Toludur Project* (.07 lakh).—Execution of flood repairs and special repairs to revetment and slip site in the Wellington Reservoir.

The decrease of 2.09 lakhs occurred in the case of the Cauvery Delta, Poiney, Periyar, Kistna, Cauvery-Mettur and Kattalai, and it is attributable to the following causes:—

- Cauvery Delta* (.13 lakh).—Reduced expenditure due to (1) postponement of the work "Constructing a storeshed at Grand Anicut," (2) dropping out of the proposal for building lascars' quarters at six vents and the second

breach at Tiruturaipundi Subdivision which impeded the progress of work "Diverting the course of Korayar in the Lagoon," (3) savings on revetment works in the Vennar Subdivision, and (4) non-execution of certain works in the Negapatam Subdivision for want of timely sanction to the estimates.

- (b) *Poiney Anicut* (.10 lakh).—Execution during 1936-37 of repairs caused by flood and cyclone.
- (c) *Periyar system* (.47 lakh).—Due to the improvements to Parayankulam tank having been delayed consequent on the objection of the district board to the paved crossing of the road and delay in land acquisition.
- (d) *Kistna Delta* (.93 lakh).—Due to the transfer and maintenance of a separate account for Kistna East Bank Canal Extension Scheme.
- (e) *Cauvery-Mettur Project* (.37 lakh).—Due to the transfer of the expenditure on General Services to the Mettur Township Committee ever since its formation on 1st February 1937.
- (f) *Kattalai Scheme* (.09 lakh).—Execution during 1936-37 of repairs caused by flood.

6. The systems bearing Nos. 1 to 22 in Account No. I (General Abstract) have been in operation for over thirteen years since the dates of closure of the construction estimates. Of these items 1, 3 to 5, 7, 9, 10, 13, 14, 17 to 19, 21 and 22 satisfy the test of productivity referred to in paragraph 1 ante; items 2, 6, 8, 11, 12, 15, 16 and 20 have failed to do so during a portion of the triennium ending with 1937-38, and their retention in the productive category is with reference to rule 3 (iii) of Statement A of Appendix 4 to the Madras Public Works Account Code.

2. Unproductive.

7. There are 28 works of this class in the Presidency as in the last year.

8. There was a slight increase in revenue (.68 lakh) as compared with that of the last year. Though there was a decrease in revenue in some of the systems, viz., the Kurnool-Cuddapah Canal, Pelandorai, Muniyeru, Nagavalli and Yerur, it was more than counterbalanced by the increase in other systems, viz., the Madras Water Works, Palar and Mopad. The decrease under Kurnool-Cuddapah Canal is attributed to the favourable season on account of which the ryots did not utilize canal water for dry crops. In the case of Pelandorai it is explained to be due to the restriction of cultivation on account of the lands being washed away by heavy rains, and that under Yerur and Nagavalli are

stated to be due to (1) the entire ayacut having been left waste on account of several breaches in the tank, and (2) the ryots not utilizing Government water for second crop as in previous fasli.

9. The working expenses showed slight increase (.24 lakh) as compared with the last year. This is made up of increases in the case of the Kurnool-Cuddapah Canal, Barur and Nagavalli and decrease in respect of the Palar Anicut. The increases in the case of the three systems are reported to be respectively due to (1) raising and strengthening of banks of the canal in addition to annual scheme works, (2) execution of certain special repairs to the tank during the year, and (3) execution of special repairs to Nagavalli Main Channel and repairs to damages caused by floods to the regulator. The decrease in the case of the Palar Anicut is explained to be due to the execution during the year 1936-37 of certain repair works caused by floods.

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

B. NAVIGATION, ETC., WORKS.

11. There are two works of this class in the Presidency as in the last year, and both of them have been classed as "Unproductive." The revenue figures showed no perceptible variation as compared with those of the last year, but, in the working expenses, there was a slight increase during the year and it is made up of a decrease .09 lakh in the case of the Vedaranniyam Canal and an increase of .30 lakh in respect of the Buckingham Canal.

P. K. WATTAL,
Accountant-General, Madras.

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 1937-38.

Date of closure of construction establishment

Name of project.	ESTIMATED COST OF CONSTRUCTION.			Total.	Date of closure of construction estimate or in the case of works under construction date of sanction.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES DURING 1937-38.					
	Direct charges.	Indirect charges.	(2)			(3)	(4)	Direct charges.	Indirect charges.	Total.	
(1)	RS.	(2)	RS.	(3)	RS.	(4)	(5)	(6)	(7)	(8)	RS.
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.											
<i>A. Irrigation Works.</i>											
(1) Productive Works.											
1 Cauvery delta system ..	79,73,189		2,68,430		82,41,619		31st March 1889.	72,536	4,287		76,823
2 Srivaikuntam anicut system.	16,67,459		1,07,604		17,75,063		Do.	—	6,418		75,727
3 Godavari delta system ..	1,70,32,482		20,76,828		1,91,09,310		31st March 1890.	82,145			
4 Mehamattur anicut system.	86,943		2,110		89,053		March 1891 ..				
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 Chembrambakkam tank ..	6,51,346		1,12,795		7,64,143		Do.				
9 Marudur anicut system ..	58,721		1,401		60,122		1893 ..				
10 Pennar river canals system	60,49,002		10,18,126		70,67,128		31st March 1894.	37,275	280		37,555
11 Aikenkota 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 Shatiapote anicut system ..	10,29,886		59,675		10,89,561		Do.	222	2		224
14 Cheyyar anicut system ..	5,24,798		15,201		5,39,999		31st March 1896.				
15 Cumbum tank ..	83,985		2,388		86,373		Do.				
16 Poiney anicut system ..	2,95,106		8,812		3,03,918		1897 ..				

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17	Pettiar system	1,04,64,627	3,71,027	1,08,35,654	31st March 1897.	4,73,671	23,455	4,97,126
18	Kistna delta system	2,14,19,142	12,44,382	2,26,63,524	31st March 1898.			
19	Nandiyar channel system	63,231	2,484	65,715	1899			
20	Chicacole 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			
22	Kistna East Bank extension Scheme.	57,25,488	1,07,730	58,33,218	31st October 1913.	2,34,058	5,071	2,39,129
23	Toludur reservoir project	23,91,827	2,53,847	26,45,674	31st October 1925.	5,665	39	5,704
24	Polavaram Island project	16,76,423	27,469	17,03,892	28th Feb. 1934	2,798	20	2,818
25	Cauvery-Mettur project	6,67,70,000	11,30,000	6,79,00,000	15th June 1929	82,375	770	81,605
26	Kattalai scheme	43,63,449	90,983	44,54,432	1st December 1926.	21,067	3,665	24,732
Total, A. Irrigation—(1) Productive ..		15,24,92,190	70,33,874	15,95,29,064		6,82,772	44,007	7,26,779
(2) Unproductive Works.								
1	Kurnool-Cuddapah canal	2,33,13,676	73,438	2,33,87,114	Not known		33	4,039
2	Barur tank	4,27,642	23,802	4,51,444	31st March 1891.	4,006		
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	Pelandorai anicut system	6,43,302	48,772	6,92,074	1893			
6	Palar anicut system	23,74,462	1,17,505	24,91,967	31st March 1896.		19	2,613
7	Muniyuru system	5,79,317	29,813	6,09,130	1901-02	2,594		
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	Segleru 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	Ananaseswaram-Beraperu tank.	71,687	1,866	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	26,674	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.	8,731	1,792	10,532
18	Venkatesapuram tank	3,72,250	12,671	3,84,921	31st March 1918.			
19	Rhavanasi tank	2,54,395	11,096	2,65,491	31st March 1919.			

CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES DURING 1937-38.

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 1937-38.		
	Direct charges.	Indirect charges.	Total.		Direct charges.	Indirect charges.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—cont.							
A. Irrigation Works—cont.							
(2) Unproductive Works—cont.							
20 Yellanur tank ..	2,39,192	30,515	2,69,707	31st March 1919.	..	..	..
21 Panjapatti reservoir ..	3,27,781	11,495	3,39,276	30th June 1919.	..	..	..
22 Siddapur tank ..	7,91,038	13,448	8,04,486	31st October 1919.	..	..	..
23 Nagavaram anicut and supply channel.	1,07,295	2,595	1,09,890	31st December 1919.	..	..	..
24 Mopad reservoir system ..	21,94,231	96,429	22,90,660	30th April 1921.	70	1	71
25 Kanniyampalayam anicut ..	1,07,221	3,853	1,11,074	31st March 1922.	..	..	..
26 Thippayapalem project ..	6,04,548	22,476	6,27,024	4th February 1924	1,72,570	1,147	1,73,717
27 Basavannah channel ..	5,86,523	6,577	5,92,100	19th December 1924.	3,025	20	3,045
28 Duvvaleru project ..	1,50,620	1,455	1,52,075	7th September 1936.	2,912	19	2,931
Total, A. Irrigation—(2) Unproductive.	3,79,70,336	9,18,337	3,88,88,673		1,93,907	3,031	1,96,938
Total, A. (Irrigation Works) ..	19,94,65,526	79,52,211	19,84,17,737		8,76,679	47,038	9,23,717

**B. Navigation, Embankment
and Drainage Works.**

(2) Unproductive.			
1 Vedaranniyam canal ..	1,32,699	3,733	1,36,432
2 Buckingham canal ..	85,92,529	4,89,464	90,81,993
Total, (2) Unproductive Works.	87,25,228	4,93,197	92,18,425
Total, B. Navigation, etc., Works.	87,25,228	4,93,197	92,18,425
Total, Construction of Irrigation, etc., Works.	19,91,90,754	84,45,408	20,76,36,162
		8,76,679	47,038
			9,23,717

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 these works for and to end of 1937-38—*cont.*

Name of project.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES TO END OF 1937-38.		GROSS RECEIPTS DURING THE YEAR 1937-38.		WORKING EXPENSES AND MAINTENANCE DURING 1937-38 INCLUSIVE OF INDIRECT CHARGES.	
	Direct charges.	Indirect charges.	Total.	Portion of land revenue due to works, etc.	Direct charges.	Indirect charges.

(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—*cont.*

A. Irrigation Works—*cont.*

(1) Productive Works.

1 Cauvery delta system.	79,05,717	2,67,837	81,73,554	..	81,73,554	11,49,982	35,135	11,85,117	2,96,180	2,178	2,98,358
2 Srivajikuntam anicut system.	16,67,459	1,07,604	17,75,063	..	17,75,063	1,20,270	1,490	1,21,760	78,296	566	78,862
3 Godavari delta system.	1,68,01,688	20,69,239	1,88,70,927	..	1,88,70,927	45,53,542	2,30,158	47,83,700	15,36,043	9,726	15,45,769
4 Mahanattur anicut system.	84,648	2,090	86,738	..	86,738	20,611	196	20,837	15,531	96	15,627
5 Thadapalli channel.	1,66,363	11,063	1,77,446	..	1,77,446	51,086	2,929	54,015	23,636	164	23,800

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6 Kalingarayan channel.	1,75,980	4,506	1,80,486	..	1,80,486	33,837	483	34,320	47,588	367	47,955
7 Vriddhachalam anicut system.	1,04,144	4,060	1,08,204	..	1,08,204	26,164	339	26,503	17,982	108	18,090
8 Chembrambakkam tank.	6,51,348	1,12,795	7,64,143	..	7,64,143	29,246	957	30,203	4,191	22	4,213
9 Marudur anicut system.	58,721	1,401	60,122	..	60,122	63,270	279	63,549	34,741	235	34,976
10 Pennar river canals system.	59,18,802	10,15,901	69,34,703	..	69,34,703	4,77,169	72,179	5,49,348	1,34,950	750	1,35,700
11 Arankota channel.	1,40,769	3,676	1,44,445	..	1,44,445	14,729	428	15,157	13,417	100	13,517
12 Tirukkoyilur anicut system.	3,89,189	10,001	3,99,190	..	3,99,190	53,736	3,369	57,105	55,223	361	55,584
13 Shatlatope anicut system.	10,29,886	59,675	10,89,561	..	10,89,561	1,03,208	17,031	1,20,239	43,546	232	43,778
14 Cheyyar anicut system.	5,24,798	15,201	5,39,999	..	5,39,999	51,885	4,735	56,620	31,334	225	31,559
15 Cumbum tank ..	83,985	2,388	86,373	..	86,373	3,042	461	3,503	127	—	126
16 Poiney anicut system.	2,95,106	8,812	3,03,918	..	3,03,918	59,497	5,488	64,985	35,596	255	35,851
17 Periyar system ..	1,04,64,627	3,71,027	1,08,35,654	..	1,08,35,654	5,76,754	94,841	6,71,595	1,83,362	1,695	1,85,057
18 Kistna delta system.	1,98,68,317	11,87,480	2,10,55,797	..	2,10,55,797	40,59,114	1,89,556	42,48,670	10,59,474	5,676	10,65,150
19 Nandiyar channel system.	63,231	2,484	65,715	9,747	75,462	10,651	243	10,894	2,675	14	2,689
20 Chicacole minor Rivers system.	2,78,196	11,030	2,89,226	..	2,89,226	33,642	7,874	41,516	36,933	242	37,175
21 Lower Coleroon anicut system.	29,13,423	88,246	30,01,669	..	30,01,669	2,68,064	51,515	3,19,579	1,84,150	1,413	1,85,563
22 Kistna East Bank canal extension scheme.	55,24,424	1,95,062	56,20,486	49,051	56,78,537	2,58,792	87,205	3,45,997	59,018	308	59,326
23 Toludur reservoir project.	23,56,957	2,51,218	26,08,175	13,22,472	39,30,647	87,489	448	87,937	56,038	898	56,936
24 Polavaram Island project.	16,67,597	27,389	16,94,986	26,596	17,21,582	96,302	..	96,302	23,172	123	23,295
25 Cauvery-Mettur project.	6,47,71,888	10,46,337	6,58,18,225	2,41,45,532	8,99,63,757	11,78,605	..	11,78,605	3,96,251	2,329	3,98,580
26 Kattalai scheme ..	38,72,546	95,873	39,68,419	12,91,508	52,59,927	87,478	121	87,599	45,031	290	45,321
Total. A. Irrigation—	14,77,79,829	68,82,395	15,46,62,224	2,68,44,906	18,15,07,130	1,34,68,195	8,07,460	1,42,75,655	44,14,485	28,372	44,42,857

No. 1.—General Abstract of Financial Results shewing 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 1937-38—*cont.*

Name of project.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES TO END OF 1937-38.			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 1937-38.			WORKING EXPENSES AND MAINTENANCE DURING 1937-38 INCLUSIVE OF INDIRECT CHARGES.		
	Direct charges.	Indirect charges.	Total.	Total. end of the year.	Direct receipts.		Portion of land revenue due to works, etc.	Total.	Direct charges.	Indi- rect char- ges.	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— cont.												
A. Irrigation Works— cont.												
(2) Unproductive Works.												
1 Kurnool-Cuddapah canal.	2,33,13,676	73,438	2,33,87,114	4,09,95,455	6,43,82,569	2,98,536	2,992	3,01,528	1,30,167	703	1,30,870	
2 Barur tank	4,28,202	23,809	4,52,011	4,23,147	8,75,158	18,389	782	19,171	21,055	161	21,216	
3 Vallur anicut	74,366	1,916	76,282	24,572	1,00,854	1,080	1,074	2,154	1,341	10	1,354	
4 Madras Water-sup- ply and Irrigation system.	16,28,864	2,40,034	18,68,918	27,81,143	46,50,061	79,004	462	79,466	13,085	110	13,195	
5 Pelandoresi anicut	6,43,302	48,772	6,92,074	4,15,443	11,07,517	43,682	86	43,768	22,038	126	22,164	
6 Palair anicut system.	23,48,502	1,17,304	24,65,806	4,86,211	29,52,017	1,88,192	16,852	2,05,044	85,432	601	86,033	
7 Muniyeru system	5,78,365	29,802	6,08,167	2,83,366	8,91,533	41,928	62	41,990	22,083	142	22,225	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1937-1938.

8	Dondaped tank	1,24,786	15,218	1,40,004	1,83,706	3,23,710	1,376	10	1,386	519	3	522
9	Yerur tank	61,741	1,612	63,353	37,188	1,00,541	1,449	86	1,363	862	6	858
10	Sagileru system	4,47,108	17,619	4,64,727	7,05,558	11,70,285	3,123	26	1,349	1,298	7	1,305
11	Almakur tank	1,11,959	13,444	1,25,403	97,175	2,22,578	1,640	..	1,640	1,334	9	1,343
12	Jangamaheswara- puram tank.	61,253	10,411	71,664	61,046	1,32,710	333	..	333	77	..	77
13	Ananasa mudram- Borepuri tank.	71,687	1,886	73,573	74,780	1,48,353	7	1	8	—	27	—
14	Hajipuram tank	2,78,774	33,109	3,11,883	2,47,579	5,59,462	2,964	70	3,034	780	4	784
15	Ponnalur tank	1,92,975	25,674	2,18,649	2,36,722	4,56,371	4,389	..	4,389	3,639	25	3,664
16	Markapur tank	1,24,481	4,859	1,29,340	98,835	2,28,175	6,598	1	6,599	2,655	15	2,670
17	Nagavalli river sys- tem.	17,15,516	44,334	17,59,850	4,02,152	21,92,002	57,872	21,503	79,375	44,104	284	44,388
18	Venkatapuram tank.	3,72,250	12,671	3,84,921	3,34,120	7,19,041	784	38	822	1,123	7	1,130
19	Bhavanasi tank	2,54,395	11,096	2,65,491	2,13,858	4,79,349	5,003	..	5,003	1,821	11	1,832
20	Yellaur tank	2,39,192	30,515	2,69,707	1,77,001	4,46,708	2,144	1,104	3,248	973	5	978
21	Panjapatni reser- voir.	3,27,781	11,495	3,39,276	2,72,153	6,11,429	..	..	..	..	..	..
22	Siddapur tank	7,91,038	13,448	8,04,486	6,47,897	14,52,383	4,285	..	4,285	1,424	8	1,432
23	Nagavaram anicut and supply chan- nel.	1,07,295	2,595	1,09,890	65,430	1,75,320	1,387	1,017	2,404	1,308	8	1,316
24	Mopad reservoir system.	21,94,146	96,429	22,90,575	17,12,791	40,03,366	36,729	5,170	41,899	12,563	77	12,640
25	Kanniyampalayam anicut.	1,07,221	3,853	1,11,074	1,10,792	2,21,866	4,169	..	4,169	839	6	845
26	Thippayapalem project.	5,63,772	11,963	5,75,735	1,03,369	6,79,104	..	..	..	..	..	..
27	Basavannah chan- nel.	5,79,466	6,555	5,86,021	3,28,156	9,14,177	269	..	269	15,054	100	15,154
28	Duvvaleru project.	2,983	20	3,003	68	3,071	..	..	..	..	..	..
Total, A. Irrigation— (2) Unproductive.		3,77,45,096	9,03,901	3,86,48,997	5,15,19,713	9,01,68,710	8,02,434	51,336	8,53,770	3,85,537	2,428	3,87,965
Total, A. Irrigation Works.		18,55,24,925	77,86,296	19,33,11,221	7,83,64,619	27,16,75,840	1,42,70,629	8,58,796	1,51,29,425	48,00,022	30,800	48,30,822

Nc. 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 1937-38—cont.

Name of project.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES TO END OF 1937-38.			GROSS RECEIPTS DURING THE YEAR 1937-38.			WORKING EXPENSES AND MAINTENANCE DURING 1937-38 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 due to works, etc.	Direct charges.	Indirect charges.	Total.
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—cont.									
B. Navigation, Embankment and Drainage Works.									
(2) Unproductive.									
1 Vedarani canal.	1,32,699	3,733	1,36,432	7,32,300	8,68,732	690	690	7,338	50 7,388
2 Buckingham canal.	85,92,529	4,89,464	90,81,993	2,24,16,627	3,14,98,620	1,06,561	1,06,561	2,49,498	2,148 2,51,646
Total, (2) Unproductive Works.	87,25,228	4,93,197	92,18,425	2,31,48,927	3,23,87,352	1,06,251	1,06,251	2,56,836	2,198 2,59,034
Total, B. Navigation, etc., Works.	87,25,228	4,93,197	92,18,425	2,31,48,927	3,23,87,352	1,06,251	1,06,251	2,56,836	2,198 2,59,034
Total, Construction of Irrigation, etc., Works.	19,42,50,153	82,79,493	20,25,29,646	16,15,13,546	30,40,43,192	1,43,76,880	1,43,76,880	50,56,858	32,998 50,89,856

Name of project.	PERCENTAGE ON CAPITAL OUTLAY [COLUMN (11)].			PERCENTAGE OF NET REVENUE [COLUMNS (20) AND (21) ON CAPITAL INVESTED COLUMN (13)].			Prescribed rate of interest as test of productivity.		
	Net Revenue.	Surplus (+).	Deficit (-).	Simple interest during 1937-38.	Net gain.	Net loss.	During 1935-36.	During 1936-37.	During 1937-38.
(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—cont.									
A. Irrigation Works—cont.									
(1) Productive Works.									
1 Cauvery delta system ..	8,86,759	..	10-85	..	3,42,321	5,44,438	..	8-61	14-17
2 Srivaikuntam anicut system.	42,898	..	2-42	..	72,535	..	29,637	2-69	4-16
3 Godavari delta system ..	32,37,931	..	17-16	..	7,32,659	25,05,272	..	20-34	21-35
4 Mehamattur anicut system.	5,210	..	6-01	..	3,682	1,528	..	16-12	17-78
5 Thadapalli channel ..	30,215	..	17-03	..	7,238	22,977	..	31-90	26-73
6 Kalingarayan channel ..	..	13,635	..	7-55	7,655	..	21,290	15-50	12-85
7 Vriddhachalam anicut system.	8,413	..	7-78	..	4,530	3,883	..	24-64	22-37
8 Chembambakkam tank.	25,990	..	3-40	..	28,334	..	2,344	5-79	4-37
9 Marudur anicut system ..	28,573	..	47-53	..	2,554	26,019	..	95-12	94-27
10 Penner river canals system.	4,13,648	..	5-98	..	2,56,657	1,56,991	..	7-74	6-99
11 Arkenkota channel ..	1,640	..	1-14	..	6,124	..	4,484	10-67	6-21

4 per cent in the case of works sanctioned before 1st April 1919, 6 per cent for those sanctioned between 1st April 1919 and 1st August 1921, 8 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.

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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 1937-1938—cont.

Name of project.	NET REVENUE.		PERCENTAGE ON CAPITAL OUTLAY [COLUMN (11)].		Simple interest during 1937-38.	Net gain.	Net loss.	PERCENTAGE OF NET REVENUE [COLUMNS (20) AND (21) ON CAPITAL INVESTED COLUMN (13)].				Prescribed rate of interest as test of productivity.
	Surplus (+).	Deficit (-).	Gain.	Loss.				During 1935-36.	During 1936-37.	During 1937-38.		
	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—cont.	RS.	RS.	RS.	RS.	RS.	RS.	RS.					
<i>A. Irrigation Works—cont.</i>												
(1) Productive Works—cont.												
12 Tirukkoyilur anicut system.	1,521	..	0.38	..	16,930	..	15,409	11.71	12.56	0.38		
13 Shatiatope anicut system.	76,461	..	7.02	..	44,795	31,666	..	10.47	12.07	7.02		
14 Cheyyar anicut system ..	25,061	..	4.64	..	22,829	2,232	..	10.54	6.46	4.64		
15 Cumbum tank ..	3,377	..	3.91	..	3,653	..	276	10.89	8.17	3.91		
16 Poiney anicut system ..	29,134	..	9.59	..	12,836	16,298	..	18.86	1.16	9.59		
17 Periyar system ..	4,86,538	..	4.49	..	4,55,211	31,327	..	5.88	6.18	4.49		
18 Kistna delta system ..	31,83,520	..	15.12	..	8,53,969	23,29,551	..	16.51	15.26	15.12		
19 Nandiyar channel system.	8,205	..	12.49	..	2,751	5,454	..	12.45	14.90	10.87		
20 Chicacole minor rivers system.	4,341	..	1.50	..	12,102	..	7,761	0.37	8.13	1.50		
21 Lower Coleroon anicut system.	1,34,016	..	4.46	..	1,26,734	7,282	..	10.32	10.80	4.46		

functioned
between
1st
August 1921 and 31st March

August 1921 and 31st March sanctioned between 1st

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

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

22 Kistna East Bank canal extension scheme.	2,86,671	..	5.09	..	2,35,222	51,449	..	6.51	10.65	5.09
23 Toludur reservoir project.	31,001	..	1.19	..	1,02,404	..	71,403	1.56	0.98	0.78
24 Polavaram Island project.	73,007	..	4.31	..	72,479	528	..	6.49	4.97	4.24
25 Cauvery-Mettur project.	7,80,025	..	1.19	..	28,19,369	..	20,39,344	0.86	0.82	0.87
26 Kattalai scheme ..	42,278	..	1.07	..	1,67,999	..	1,25,721	1.19	1.20	0.80
Total, A. Irrigation—(1) Pro- ductive.	98,32,798	..	6.36	..	64,13,572	34,19,226	..	6.50	6.70	5.42

(2) Unproductive Works.										
1 Kurnool-Cuddapah canal.	1,70,658	..	0.73	..	10,14,140	..	8,43,182	0.25	0.36	0.27
2 Barur tank ..	..	2,045	..	0.45	18,539	..	20,584	1.34	0.63	0.23
3 Vallur anicut ..	803	..	1.05	..	3,235	..	2,432	2.94	1.26	0.80
4 Madras Water-supply and Irrigation works.	66,271	..	3.55	..	70,855	..	4,584	0.98	0.82	1.43
5 Pelandorai anicut system.	21,604	..	3.12	..	27,983	..	6,379	3.19	3.48	1.95
6 Palar ..	1,19,011	..	4.83	..	1,02,160	5,851	..	6.22	0.35	4.03
7 Munyuru system..	19,785	..	3.25	..	25,102	..	5,337	4.17	3.41	2.22
8 Dondapad tank ..	864	..	0.62	..	5,440	..	4,576	0.26	0.41	0.27
9 Yerur tank ..	..	2,221	..	3.51	2,685	..	4,906	2.78	2.72	2.21
10 Sagileru system ..	1,844	..	0.40	..	19,449	..	17,605	0.44	0.20	0.16
11 Attakur tank ..	297	..	0.24	..	4,870	..	4,573	0.61	0.62	0.13
12 Jangmaheswarapuram tank.	256	..	0.36	..	2,664	..	2,408	0.22	0.14	0.19
13 Anamasamudram-Bera- peru tank.	35	..	0.05	..	3,118	..	3,083	1.17	0.41	0.02
14 Hajipuram tank ..	2,250	..	0.72	..	12,126	..	9,876	0.25	0.48	0.40
15 Ponnalur tank ..	725	..	0.33	..	8,394	..	7,669	0.35	0.38	0.16
16 Markapur tank ..	3,929	..	3.04	..	5,415	..	1,486	0.41	1.32	1.72
17 Nagavalli river system	34,987	..	1.99	..	74,434	..	39,447	2.89	2.59	1.62
18 Venkatapuram tank ..	..	308	..	0.08	16,193	..	16,501	0.08	0.04	0.04
19 Bhavanasi tank ..	3,171	..	1.19	..	11,066	..	7,885	0.35	0.64	0.66
20 Yellanur tank ..	2,270	..	0.84	..	10,405	..	8,135	0.51	0.57	0.51
21 Panjapat reservoir ..	..	..	..	..	14,258	..	14,258	0.04	0.03	0.03
22 Siddapur tank ..	2,853	..	0.35	..	34,410	..	31,557	0.27	0.03	0.20

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 1937-38—*cont.*

Name of project.	NET REVENUE.			PERCENTAGE ON CAPITAL OUTLAY [COLUMN (11)].		Simple interest during 1937-38.	Net gain.	Net loss.	PERCENTAGE OF NET REVENUE [COLUMNS (20) AND (21) ON CAPITAL INVESTED COLUMN (13)].				Prescribed rate of interest as test of productivity.									
	Surplus (+).	Deficit (-).	RS.	RS.	Gain.				Loss.	(20)	(21)	(22)		(23)	(24)	(25)	(26)	During 1935-36.	During 1936-37.	During 1937-38.	(29)	(30)
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT— <i>cont.</i>																						
A. Irrigation Works— <i>cont.</i>																						
(2) Unproductive Works— <i>cont.</i>																						
23 Nagavaram anicut and supply channel.	1,088	..	..	0.99	..	4,667	..	3,579	0.59	-0.24	0.62	..	..	..	..	..	..	..	..			
24 Mopad reservoir system.	29,259	..	..	1.28	..	95,444	..	66,185	0.57	0.18	0.73	..	..	..	..	..	..	..	..			
25 Kanniyampalayam anicut.	3,324	..	..	2.99	..	4,664	..	1,340	1.13	1.76	1.50	..	..	..	..	..	..	..	..			
26 Thippayapalem project ..	..	..	..	..	..	20,771	..	20,771	..	..	..	..	..	..	..	..	..	..	..			
27 Baavannah channel ..	..	..	..	..	2.54	25,141	..	40,026	-4.54	-1.33	..	..	..	..	..	..	..	..	..			
28 Duvvaleru project ..	..	14,885	..	..	..	66	..	66	..	..	..	..	..	..	..	..	..	..	..			
Total, A.—Irrigation—(2) Unproductive.	4,65,805	..	..	1.21	..	16,37,694	..	11,71,889	0.59	0.47	0.52	..	..	..	..	..	..	..	..			
Total, A. Irrigation Works.	1,02,98,603	..	..	5.33	..	80,51,266	22,47,337	..	4.37	4.63	3.80	..	..	..	..	..	..	..	..			

sanctioned before 1st April 1937 and 4 per cent for March 1937 and 4 per cent for April 1937.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

1919, 5 per cent for those sanctioned between 1st August 1921 and 31st March 1937, 6 per cent for those sanctioned on or after 1st

B. Navigation, Embankment and Drainage Works.											
(2) Unproductive.											
1 Vedaranniyam canal	..	6,698	..	4.91	5,772	..	12,470	-1.30	-1.80	-0.77	
2 Buckingham canal	..	1,46,085	..	1.61	3,73,775	..	5,19,860	-0.32	-0.36	-0.46	
Total, (2) Unproductive Works.	..	1,52,783	..	1.66	3,79,547	..	5,32,330	-0.34	-0.40	-0.47	
Total, B. Navigation, etc., Works.	..	1,52,783	..	1.66	3,79,547	..	5,32,330	-0.34	-0.40	-0.47	
Total, Construction of Irrigation, etc., Works.	1,01,45,320	..	5.01	..	84,30,813	17,15,007	..	3.88	4.10	3.34	

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CAUVERY DELTA SYSTEM—Canal Project.

No. 2.—Capital account for and to end of 1937-1938.

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 ..	49,609	15,47,040	16,06,373
(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	49,609	63,87,895	64,47,228
II. Establishment	22,833	13,97,709	14,02,785
III. Tools and plant	119	1,34,907	1,37,970
IV. Suspense	..	— 1	— 1
V. Less receipts on capital account ..	25	14,793	14,793
Net outlay in India and England ..	72,536	79,05,717	79,73,189

MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

CAUVERY DELTA SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

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	..	227	(1) Head works	850	4,53,432
5 Receipts from plantations	..	3,960	(2) Main canals and branches ..	23,997	11,63,328
6 Receipts from other canal produce ..	..	3,126	(3) Distributaries	5,260	8,57,070
8 Navigation	..	677	(4) Drainage and protective works ..	1,496	4,40,421
9 Rents of buildings	..	958	(5) Special tools and plant	..	3,572
10 Fines	..	..	Add—Unclassifiable outlay	..	35,651
11 Miscellaneous	..	240	Total	31,803	29,53,474
Deduct—Refunds	..	218			
Total, Revenue realized in Public Works Department	9,179	5,30,019	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department	11,40,803	6,57,81,659	(1) Head works	21,969	8,31,976
Total, Direct Receipts	11,49,982	6,63,11,678	(2) Main canals and branches ..	4,34,061	90,80,505
			(3) Distributaries	23,206	27,58,090
II. INDIRECT RECEIPTS—			(4) Drainage and protective works ..	27,628	14,96,920
Share of land revenue collected in the Civil Department	35,135	97,47,780	(5) Special tools and plant	..	1,800
			Add—Unclassifiable outlay	..	36,27,372
			Total	5,06,864	1,77,96,663
			Total, Extensions and Improvements and Maintenance and Repairs	5,38,467	2,07,50,137
			IV. ESTABLISHMENT	3,05,953	78,47,093
			V. TOOLS AND PLANT	1,251	2,16,922
			VI. REFUNDS OF REVENUE	..	1,919
			Deduct—Recoveries on Revenue account ..	..	4,921
			Total, Direct charges	8,45,671	2,88,11,150
			Share of collection charges in the Civil Department	2,07,561	44,52,776
			Indirect charges	7,689	9,38,271
			Total, Direct and Indirect charges ..	10,60,921	3,42,02,197

IRRIGATION BRANCH.

CAUVERY DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Accounts for and to end of 1937-1938—cont.

Receipts.	TOTAL.		Charges.	TOTAL.
	During the year.	To end of the year.		
Total, Public Works and Civil Departments, Revenue.	RS. 11,85,117	RS. 7,60,59,458	* Deduct—Old maintenance charges saved to Government.	RS. 1,54,60,786
			Net Total ..	RS. 1,87,41,411
			Balance, Net Revenue ..	RS. 5,73,18,047
Total, Receipts ..	11,85,117	7,60,59,458	(Grand Total ..	7,60,59,458

Apportionment of the revenue and working expenses between the old and new works in respect of the Cauvery delta system during 1937-38—vide G.O. No. 763 I., dated 25th March 1936.

PUBLIC WORKS DEPARTMENT.

Classification of the capital outlay.	Working expenses—Direct charges.									
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Old works		RS. 2,04,83,000	RS. 29,75,685	RS. 22,651	RS. 3,03,292	RS. 1,62,736	RS. 40,113	RS. 14,891	RS. 3,672	
Improvements		81,78,554	11,75,984	8,952	1,43,572	61,602	15,852	5,686	1,451	
Total ..		2,86,61,554	41,50,802	31,603	5,06,864	2,24,338	55,965	20,527	5,123	
Classification of the capital outlay.	Working expenses—Indirect charges.									
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
Old works		RS. 1,48,770	RS. 7,67,052	RS. 1,352	RS. 3,859	RS. 7,62,503	RS. 22,13,122	RS. 8,36,759	RS. 1,451	
Improvements		81,78,554	11,75,984	8,952	1,43,572	61,602	15,852	5,686	1,451	
Total ..		1,251	2,07,561	10,53,283	2,305	5,384	7,689	10,60,921	90,99,881	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

CAUVERY DELTA SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
Total interest charges to end of 1936-1937 ..	RS. 88,46,293	Net revenue realized to end of 1936-1937 ..	RS. 5,64,31,288
*Total interest charges for the year 1937-1938 ..	3,42,321	Net revenue realized during 1937-1938 ..	8,86,759
Balance net revenue ..	4,81,29,433		
Total ..	5,73,18,047	Total ..	5,73,18,047

* Interest on Rs. 78,69,449 representing outlay to end of 1936-37 plus half of the outlay during 1937-1938 at 4.35 per cent

RS.
3,42,321
Total .. 3,42,321

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year.	To end of the year.
	RS.	RS.
Capital—		
Capitalization of abatement of land revenues ..	3,791	91,077
Leave and pension allowances ..	..	1,47,934
Audit and accounts ..	496	28,826
Total ..	4,287	2,67,837
Revenue—		
Capitalization of abatement of land revenue ..	2,305	34,963
Leave and pension allowances ..	..	7,94,051
Audit and accounts ..	5,384	1,09,257
Total ..	7,689	9,38,271
Grand total ..	11,976	12,06,108

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	49,70,021	62,77,568	1,10,327	1,69,660	59,333	63,87,895
Establishment ..	3,07,377	10,49,580	13,56,957	40,752	45,828	5,076	13,97,709
Tools and plant ..	40,659	93,919	1,34,578	329	3,392	3,063	1,34,907
Suspense account ..	..	— 1	— 1	..	..	..	— 1
Total ..	16,55,583	61,13,519	77,69,102	1,51,408	2,18,880	67,472	79,20,510
<i>Less—Receipts on Capital account.</i>							
	1,985	12,808	14,793	..	..	..	14,793
Net Total ..	16,53,598	61,00,711	77,54,309	1,51,408	2,18,880	67,472	79,05,717
<i>Indirect charges.</i>							
Capitalized abatement of land revenue.	66,184	24,893	91,077	..	..	..	91,077
Leave and pension allowances ..	57,144	90,790	1,47,934	..	..	..	1,47,934
Audit and accounts ..	..	27,722	27,722	1,104	1,697	593	28,826
Total ..	1,23,328	1,43,405	2,66,733	1,104	1,697	593	2,67,837
Grand Total ..	17,76,926	62,44,116	80,21,042	1,52,512	2,20,577	68,065	81,73,554

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 1937-1938.

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

SRIVAUKUNTAM ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

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—		
Water-supply of towns ..	279	50,400	(1) Head works ..	313	59,542
Sales of water ..	5,027	8,331	(2) Main canals and branches ..	2,513	1,05,009
Receipts from plantations ..	1,911	38,888	(3) Distributaries ..	775	31,456
Receipts from other canal produce.	1,686	1,01,989	(4) Drainage and protective works.	..	2,56,278
Water power ..	..	171	(5) Special tools and plant ..	..	..
Rents of buildings ..	278	17,989	Total ..	3,601	4,52,285
Fines ..	..	50	II. MAINTENANCE AND REPAIRS—		
Navigation ..	..	15	(1) Head works ..	1,930	1,78,743
Miscellaneous ..	47	13,700	(2) Main canals and branches ..	21,244	12,72,726
Recoveries of expenditure ..	5	346	(3) Distributaries ..	..	2,69,321
Deduct—Refunds	127	2,628	(4) Drainage and protective works.	31,806	8,36,990
Total, Revenue realized in Public Works Department ..	9,106	2,29,251	(5) Special tools and plant ..	..	12
Irrigation Revenue realized in Civil Department ..	1,11,164	76,60,699	<i>Add—Unclassifiable outlay</i> ..	..	..
Total, Direct Receipts ..	1,20,270	78,89,950	Total ..	54,980	25,57,792
			Total, Extensions and Improvements and Maintenance and Repairs ..	58,581	30,10,077
			IV. ESTABLISHMENT ..	21,503	11,66,930
			V. TOOLS AND PLANT ..	41	10,089
			VI. REFUNDS OF REVENUE ..	..	660
			<i>Deduct—Recoveries on Revenue account</i> ..	..	55
			Total, Direct Charges ..	80,125	41,87,701

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PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

II. INDIRECT RECEIPTS—			Share of collection charges in the Civil Department ..	5,633	4,04,902
Share of land revenue collected in the Civil Department ..	1,490	1,06,099	Indirect charges ..	622	1,30,394
Total, Public Works and Civil Departments, Revenue ..	1,21,760	79,96,049	Total, Direct and Indirect Charges.	86,380	47,22,997
Total, Receipts ..	1,21,760	79,96,049	<i>Deduct—* Old maintenance charges saved to Government</i> ..	7,518	5,01,418
			Net Total ..	78,862	42,21,579
			Balance, net Revenue ..	42,898	37,74,470
			Grand Total ..	1,21,760	79,96,049

* Direct—	RS.
Extensions and improvements ..	352
Maintenance and repairs ..	5,208
Establishment ..	1,898
Tools and plant ..	4
Total, Direct ..	7,462
Indirect ..	56
Total, Direct and Indirect ..	7,518

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MADRAS PRESIDENCY.

SRIVAİKUNTAM ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–1937 ..	35,21,939	Net revenue realized to end of 1936–1937 ..	37,31,572
* Total interest charges for the year 1937–38 ..	72,535	Net revenue realized during 1937–1938 ..	42,898
Balance, net revenue ..	1,79,596		
Total ..	37,74,470	Total ..	37,74,470

* Interest at 4·35 per cent on Rs. 16,67,459 representing outlay to end of 1936–1937 and half the outlay during 1937–1938.

72,535

72,535

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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 ..	36	5,439
Leave and pension allowances ..	..	1,05,014
Audit and accounts ..	586	19,941
Total ..	622	1,30,394
Grand Total ..	622	2,37,998

SRIVAİKUNTAM ANICUT SYSTEM—*Canal Project*—cont.

No. 6.—Statement comprising 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 ..	10,50,679	2,73,004	13,23,683	..	..	..	13,23,683
Establishment ..	2,90,193	43,160	3,33,353	..	..	..	3,33,353
Tools and plant ..	10,524	268	10,792	..	..	..	10,792
Suspense account ..	..	..	..	..	..	..	..
Total ..	13,51,396	3,16,432	16,67,828	..	..	..	16,67,828
Less—Receipts on Capital account.	369	..	369	..	..	..	369
Net Total ..	13,51,027	3,16,432	16,67,459	..	..	..	16,67,459
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	40,408	821	41,229	..	..	..	41,229
Leave and pension allowances ..	60,259	6,039	66,298	..	..	..	66,298
Audit and accounts ..	..	77	77	..	..	..	77
Total ..	1,00,667	6,937	1,07,604	..	..	..	1,07,604
Grand Total ..	14,51,694	3,23,369	17,75,063	..	..	..	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 1937–1938.

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	1,60,430	9,59,172	9,59,172
(2) Main canals and branches ..	23,453	30,16,586	30,16,586
(3) Distributaries	53,959	14,35,544	14,35,544
(4) Drainage and protective works	22,993	27,57,902	27,57,902
(5) Special tools and plant ..		1,14,637	1,14,637
Old outlay		42,99,072	42,99,072
Total, Works ..	60,025	1,25,82,913	1,25,82,913
II Establishment	21,280	32,69,327	32,69,327
III Tools and plant	551	9,57,766	9,57,766
IV Suspense	289	8,318	8,318
V Less receipts on capital account.			
Net outlay in India and England ..	82,145	1,68,01,688	1,68,01,688

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

GODAVARI DELTA SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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	2,488	63	(1) Head works	1,77,302	3,18,682
2 Sale of water	1,823	58,547	(2) Main canals and branches ..	29,157	11,89,539
3 Water-supply of towns ..	6,708	33,476	(3) Distributaries	13,762	8,39,788
4 Receipts from plantations ..	28,951	5,07,128	(4) Drainage and protective works ..	19,582	2,73,912
5 Receipts from other canal produce.	1,86,101	11,00,084	(5) Special tools and plant ..		87,882
6 Navigation receipts	1,232	68,41,844	Total	2,39,803	27,09,813
7 Rents of buildings		28,965			
8 Fines	1,708	6,170	II. MAINTENANCE AND REPAIRS—		
9 Miscellaneous	11,591	4,57,625	(1) Head works	44,376	23,37,192
10 Recoveries of expenditure ..	346	44,373	(2) Main canals and branches ..	3,74,319	1,20,73,607
Deduct—Refunds		14,754	(3) Distributaries	99,289	50,61,375
Total Revenue realized in Public Works Department	2,40,256	90,65,521	(4) Drainage and protective works ..	1,38,943	35,88,630
Irrigation Revenue realized in Civil Department	43,13,286	21,12,94,911	(5) Special tools and plant ..		4,01,516
Total, Direct Receipts	45,53,542	22,03,60,432	Add—Unclassifiable outlay ..		27,27,548
II. INDIRECT RECEIPTS—			Total	6,56,827	2,61,89,868
Share of land revenue collected in the Civil Department	2,30,158	1,39,31,000	Total, Extensions and Improvements and Maintenance and Repairs	8,96,630	2,88,99,681
Total, Public Works and Civil Department—Revenue	47,83,700	23,42,91,432	IV. ESTABLISHMENT	4,05,901	1,67,89,670
			V. TOOLS AND PLANT	8,239	28,34,227
			VI. REFUNDS OF REVENUE		19,950
			Deduct—Recoveries on Revenue account ..		33,785
			Total, Direct Charges	13,10,770	4,85,09,793
			Share of collection charges in the Civil Department ..	2,25,273	1,20,14,717
			Indirect charges	9,726	22,09,886
			Total, Direct and Indirect Charges	15,45,769	6,27,34,396
			Balance, net revenue	32,37,931	17,15,57,036
Total, Receipts	47,83,700	23,42,91,432	Grand Total	47,83,700	23,42,91,432

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

GODAVARI DELTA SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–1937	3,24,16,971	Net revenue realized to end of 1936–1937	16,83,19,105
Total interest charges for the year 1937–1938—		Net revenue realized during 1937–1938	32,37,931
Interest at 4·35 per cent on Rs. 1,68,42,760 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938	7,32,659		
Balance, net revenue	13,84,07,406		
Total	17,15,57,036	Total	17,15,57,036

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	To end of the year.
	RS.	RS.
Capital—		
Capitalization of abatement of land revenue	7,019	15,37,204
Leave and pension allowances	..	5,08,757
Audit and accounts	601	23,278
Total	6,418	20,69,239
Revenue—		
Capitalization of abatement of land revenue	760	1,05,082
Leave and pension allowances	..	19,84,845
Audit and accounts	8,966	1,20,159
Total	9,726	22,09,886
Grand Total	16,144	42,79,125

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

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MADRAS PRESIDENCY.

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.
	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>							
Works	79,85,366	42,88,845	1,22,74,211	3,08,702	4,91,162	1,82,460	1,25,82,913
Establishment	19,55,654	12,21,576	31,77,230	92,097	1,33,111	41,014	32,69,327
Tools and plant	8,69,822	85,439	9,55,261	2,505	9,825	7,320	9,57,766
Suspense account	..	..	..	..	..	..	..
Total	1,08,10,842	55,95,860	1,64,06,702	4,03,304	6,34,098	2,30,794	1,68,10,006
Less—Receipts on capital account.	933	7,385	8,318	..	..	..	8,318
Net Total	1,08,09,909	55,88,475	1,63,98,384	4,03,304	6,34,098	2,30,794	1,68,01,688
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue	14,95,991	41,213	15,37,204	..	5,763	5,763	15,37,204
Leave and pension allowances	3,92,601	1,16,156	5,08,757	..	..	..	5,08,757
Audit and accounts	..	20,193	20,193	3,085	4,911	1,826	23,278
Total	18,88,592	1,77,562	20,66,154	3,085	10,674	7,589	20,69,239
Grand Total	1,26,98,501	57,66,037	1,84,64,538	4,06,389	6,44,772	2,38,383	1,88,70,927

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.

MEHAMATTUR ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937–1938.

Hoads 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	..	9,900	11,977
(3) Distributaries	..	563	563
Total, Works ..	..	67,430	69,507
II Establishment	..	17,192	17,322
III Tools and plant	..	26	114
Total outlay in India and England ..	..	84,648	86,943

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MEHAMATTUR ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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	..	37	(1) Head works	..	2,938
6. Receipts from other canal produce.	..	16	(2) Main canals and branches	..	15,438
9. Rents of buildings	..	..	(3) Distributaries	..	5,116
			(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	9,521
			Add—Unclassifiable outlay	..	..
			Total	..	33,013
II. Miscellaneous	..	1,000	II. MAINTENANCE AND REPAIRS—		
Recoveries of expenditure	..	..	(1) Head works	926	58,464
Deduct—Refunds	..	..	(2) Main canals and branches	6,475	82,751
			(3) Distributaries	2,811	41,393
			(4) Drainage and protective works	..	862
			(5) Special tools and plant	..	45,826
			Add—Unclassifiable outlay	..	..
Total Revenue realized in Public Works Department.	1,073	7,375	Total	10,212	2,29,296
Irrigation revenue realized in Civil Department.	19,568	8,98,011	Total, Extensions and Improvements and Maintenance and Repairs	10,212	2,62,309
			IV. ESTABLISHMENT	5,240	75,756
			V. TOOLS AND PLANT	25	673
			VI. REFUNDS OF REVENUE	..	4
			Deduct—Recoveries on Revenue Account	..	9
Total, Direct Receipts. ..	20,641	9,05,386	Total, Direct Charges ..	15,477	3,38,733

No. 3.--Revenue Account for and to end of 1937-1938--*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	4,954	Share of collection charges in the Civil Department	984	45,114
Total Public Works and Civil Department Revenue	20,837	9,10,340	Indirect charges	102	8,102
Total, receipts	20,837	9,10,340	Total, Direct and Indirect Charges. <i>Deduct</i> —Old maintenance charges saved to Government (a)	16,563	3,91,949
			Net Total.	15,627	3,59,758
			Balance, net revenue	5,210	5,50,582
			Grand Total	20,837	9,10,340
			RS.		
			(a) Extensions and Improvements	126	
			Maintenance and Repairs	510	
			Establishment	292	
			Tools and Plant	2	
			Total, Direct Charges	930	
			Indirect Charges	6	
			Direct and Indirect	936	

MEHAMATTUR ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937.	178,837	Net revenue realized to end of 1936-1937.	5,45,372
* Total interest charges for the year 1937-1938.	..	Net revenue realized during 1937-1938.	5,210
Interest at 4.35 per cent on Rs. 34,648 representing outlay to end of 1936-37 plus half the outlay during 1937-1938.	RS. 3,682		
	3,682		
Balance, net revenue ..	3,68,063		
Total ..	5,50,582	Total ..	5,50,582

No. 5.—Account of Indirect Charges for and to end of 1937-1938 .

No. 5.—Account of Expenditure during the year.					During the year.	To end of the year.
Particulars.					RS.	RS.
CAPITAL—						
Capitalization of abatement of land revenue	..	..	..	..	45	
Leave and pension allowances	..	..	..	..	1,958	
Audit and accounts	..	..	..	..	87	
Total					2,090	
REVENUE—						
Capitalization of abatement of land revenue	..	..	..	..	354	
Leave and pension allowances	..	..	..	..	6,986	
Audit and accounts	..	..	..	..	762	
Total					8,102	
Grand Total					10,192	

MEHAMATTUR ANCUT 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	56,289	8,378	64,667	2,763	4,840	2,077	67,430
Establishment	12,946	3,061	16,007	1,185	1,315	130	17,192
Tools and plant	..	17	17	9	97	88	26
Suspense account	..	..	..	..	..	..	..
Total ..	69,235	11,456	80,691	3,957	6,252	2,295	84,648
<i>Less—Receipts on Capital Account.</i>	..	..	..	..	..	..	..
Net Total ..	69,235	11,456	80,691	3,957	6,252	2,295	84,648
<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	..	59	59	28	48	20	87
Total ..	1,812	250	2,062	28	48	20	2,090
Grand Total ..	71,047	11,706	82,753	3,985	6,300	2,315	86,738
The construction estimate of the project was closed in March 1891.							

THADAPALLI CHANNEL—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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

THADAPALI CHANNEL—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937-1938.

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 ..	1,482	18,053	(1) Head works ..	9,601	6,707
6. Receipts from other canal produce ..	..	4,845	(2) Main canals and branches ..	..	51,342
9. Rents of buildings ..	89	2,146	(3) Distributaries ..	..	9,328
11. Miscellaneous ..	358	28,173	(4) Drainage and protective works.	..	74
			(5) Special tools and plant ..	..	7,726
			<i>Add—Unclassifiable outlay</i> ..	..	..
			Total ..	9,601	75,177
Total, Revenue realized in Public Works Department ..	1,929	53,217	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department ..	49,157	28,33,111	(1) Head works ..	541	59,138
	51,086	28,86,328	(2) Main canals and branches ..	9,690	4,02,873
Total, Direct Receipts.			(3) Distributaries ..	144	9,057
			(4) Drainage and protective works.	..	..
			(5) Special tools and plant ..	..	1,99,673
			<i>Add—Unclassifiable outlay</i> ..	..	..
			Total ..	10,375	6,70,741
			Total, Extensions and Improvements and Maintenance and Repairs ..	19,976	7,45,918
			IV. ESTABLISHMENT ..	5,415	1,90,332
			V. TOOLS AND PLANT ..	55	3,614
			VI. REFUNDS OF REVENUE ..	..	22
			<i>Deduct—Recoveries on Revenue Account.</i>	..	11
			Total, Direct Charges ..	25,446	9,39,875

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

I. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department ..	2,929	2,02,714	Share of collection charges in the Civil Department ..	2,604	1,51,792
Total, Public Works and Civil Departments, Revenue ..	54,015	30,89,042	Indirect Charges ..	200	21,387
Total, Receipts.	54,015	30,89,042	Total, Direct and Indirect Charges.	28,250	11,13,054
			<i>Deduct—Old maintenance charges saved to Government*</i> ..	4,450	1,21,568
			Net Total ..	23,800	9,91,486
			Balance, net revenue ..	30,215	20,97,556
			Grand Total ..	54,015	30,89,042
			rs.		
*Direct—					
Extensions and improvements ..					3,569
Maintenance and repairs ..					..
Establishment ..					835
Tools and Plant ..					10
Total, Direct ..					4,414
Indirect ..					36
Total, Direct and Indirect ..					4,450

THADAPALLI CHANNEL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937 ..	3,48,314	Net revenue realized to end of 1936-1937	20,67,341
* Total interest charges for the year 1937-1938 ..	7,238	Net revenue realized during 1937-1938	30,215
Balance, net revenue ..	17,42,004		
Total ..	20,97,556	Total ..	20,97,556
* Interest at 4.35 per cent on Rs. 1,66,383 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938.			
	7,238		
Total ..	7,238		

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year. RS.	To end of the year. 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 ..	200	2,714
Total ..	200	21,387
Grand Total ..	200	32,450

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. 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 ..	70,897	65,634	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 1893.

KALINGAROYAN CHANNEL—*Canal Project.*

No. 2.—Capital Account for and to end of 1937–1938.

[Vide details on page 42 of the Administrative Accounts
for 1934–35.]KALINGAROYAN CHANNEL—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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—					
5. Receipts from plantations ..			I. EXTENSIONS AND IMPROVEMENTS—		
6. Receipts from other canal produce ..	1,569	22,549	(1) Headworks ..	..	3,540
8. Navigation receipts ..	..	11,199	(2) Main canals and branches ..	29,907	53,285
9. Rents of buildings ..	11	11	(3) Di. tributaries ..	..	280
11. Miscellaneous ..	49	1,315	(4) Drainage and protective works.	..	..
11. Miscellaneous ..	163	41,098	(5) Special tools and plant ..	..	11,569
<i>Deduct—Refunds ..</i>	..	96	<i>Add—Unclassifiable outlay ..</i>	..	..
Total, Revenue realized in Public Works Department ..	1,792	76,076	<i>Total ..</i>	29,907	68,674
Irrigation revenue realized in Civil department ..	32,045	19,77,800	II. MAINTENANCE AND REPAIRS—		
<i>Total, Direct Receipts ..</i>	33,837	20,53,876	(1) Head works ..	1,046	99,706
			(2) Main canals and branches ..	9,750	3,67,865
			(3) Di. tributaries ..	..	..
			(4) Drainage and protective works ..	..	..
			(5) Special tools and plant ..	..	50
			<i>Add—Unclassifiable outlay ..</i>	..	3,53,846
			<i>Total ..</i>	10,796	8,21,367
			Total, Extensions and Improvements and Maintenance and Repairs ..	40,703	8,90,041
			IV. ESTABLISHMENT ..	10,084	2,23,635
			V. TOOLS AND PLANT ..	112	3,348
			VI. REFUNDS OF REVENUE ..	..	243
			<i>Deduct—Recoveries on Revenue account ..</i>	..	9
			<i>Total, Direct charges ..</i>	50,899	11,17,258

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

KALINGAROYAN CHANNEL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938—*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 and revenue collected in the Civil Department	483	29,518	Share of collection charges in the Civil Department	1,626	1,00,366
			Indirect charges	407	26,199
Total, Public Works and Civil Departments, Revenue	34,320	20,83,394	Total, Direct and Indirect Charges..	52,932	12,43,823
			<i>Deduct—</i> Old maintenance charges saved to Government (a)	4,977	1,35,971
Total, Receipt ..	34,320	20,83,394	Net total ..	47,955	11,07,852
			Balance, net revenue	13,635	9,75,542
			Grand total ..	34,320	20,83,394
(a) Direct—					
			RS.		
Extensions and improvements				3,992	
Maintenance and repairs					
Establishment				934	
Tools and plant				11	
Indirect			Total, Direct ..	4,937	
				40	
			Total, Direct and Indirect ..		4,977

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

KALINGAROYAN CHANNEL—*Canal Project*—cont.
No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937 ..	2,78,984	Net revenue realized to end of 1936-1937 ..	9,89,177
* Total interest charges for the year 1937-1938 ..	7,655	Net revenue realized during 1937-1938 ..	— 13,635
Balance, net revenue ..	6,88,903		
Total ..	<u>9,75,542</u>	Total ..	<u>9,75,542</u>
	RS.		
* Interest at 4.35 per cent on Rs. 1,75,980 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938.	7,655		
Total ..	<u>7,655</u>		

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Leave and pension allowances	..	4,506
Total ..	..	4,506
REVENUE—		
Leave and pension allowances	..	23,737
Audit and accounts	407	2,462
Total ..	407	26,199
Grand Total ..	407	30,705

KALINGAROYAN 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.
<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
<i>Less—Receipts on Capital account.</i>	..	..	..	..	..	..	..
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	2,820	6,192	8,912	..	..	..	8,912
Grand Total	56,663	1,28,329	1,85,000	..	..	..	1,80,486

The construction estimate of the Project was closed in 1893.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

VRIDDHACHALAM ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

VRIDDHACHALAM ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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	359	7,658
5 Receipts from plantations	..	6,060	(2) Main canals and branches	33	25,571
6 Receipts from other canal produce	223	3,316	(3) Distributaries	168	17,357
8 Navigation receipts	7	1	(4) Drainage and protective works	..	..
9 Rents of buildings	3	107	(5) Special tools and plant	..	1,968
10 Fines	..	5	Add—Unclassifiable outlay	..	..
11 Miscellaneous	..	2,061			
Recoveries of expenditure	..	36	II. MAINTENANCE AND REPAIRS—		
Deduct—Refunds	..	744	Total	560	52,554
Total, Revenue realized in Public Works Department	233	11,164	(1) Headworks	1,795	74,819
Irrigation revenue realized in Civil Department	25,931	13,70,666	(2) Main canals and branches	6,250	1,10,715
			(3) Distributaries	2,153	64,879
			(4) Drainage and protective works	..	1,089
			(5) Special tools and plant	..	..
			Add—Unclassifiable outlay	..	53,862
Total, Direct Receipts	26,164	13,81,830			
			Total	10,198	3,05,364
II. INDIRECT RECEIPTS—			Total, Extensions and Improvements and Maintenance and Repairs	10,758	3,57,918
Share of land revenue collected in the Civil Department	339	24,243	IV. ESTABLISHMENT	5,885	1,05,504
Total, Public Works and Civil Departments, Revenue	26,503	14,06,073	V. TOOLS AND PLANT	26	1,138
			VI. REFUNDS OF REVENUE	..	..
Total, Receipts	26,503	14,06,073	Deduct—Recoveries on revenue account	..	62
			Total, Direct Charges	16,669	4,64,498
			Share of collection charges in the Civil Department	1,313	69,735
			Indirect charges	108	10,492
			Total, Direct and Indirect charges	18,090	5,44,725
			Balance, net revenue	8,413	8,61,348
			Grand Total	26,503	14,06,073

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

VRIDDHACHALAM ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–37	1,66,749	Net revenue realized to end of 1936–37	8,52,935
* Total interest charges for the year 1937–38	4,530	Net revenue realized during 1937–38	8,413
Balance, net revenue	6,90,069		
Total	8,61,348	Total	8,61,348
* Interest at 4.35 per cent on Rs. 1,04,144 representing outlay to end of 1936–37 plus half the outlay during 1937–38	4,530		
Total	4,530		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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	..	358
Leave and pension allowances	..	8,917
Audit and accounts	108	1,217
Total	108	10,492
Grand Total	108	14,552

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	..	..	..	..	..	..	82,956
Establishment	..	..	..	..	..	..	21,125
Tools and plant	..	..	..	..	..	..	63
Suspense account	..	..	..	..	..	..	..
Total	48,468	55,676	1,04,144	..	..	..	1,04,144
Less—Receipts on Capital account.	..	..	..	..	..	..	..
Net 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

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

CHEMBRAMBAKKAM TANK—Tank Project.

No. 2.—Capital Account for and to end of 1937-1938.

[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 1937-1938.

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 ..	..	4,670
6 Receipts from other canal produce. ..	..	2,370	(2) Main canals and branches ..	..	43,319
9 Rents of buildings ..	43	1,434	(3) Distributaries ..	..	4,448
10 Fines ..	..	5	(4) Drainage and protective works. ..	..	..
Recoveries of expenditure ..	4	29	(5) Special tools and plant ..	..	..
11 Miscellaneous ..	28	11,700	Total ..	..	52,437
Deduct—Refunds ..	..	267			
Total, Revenue realized in Public Works Department.	75	15,716	II. MAINTENANCE AND REPAIRS—		
			(1) Head works ..	..	37,198
II. INDIRECT RECEIPTS—			(2) Main canals and branches ..	7,555	4,40,912
Share of land revenue collected in the Civil Department.	29,171	23,60,256	(3) Distributaries ..	..	16,325
	29,246	23,75,972	(4) Drainage and protective works. ..	..	..
Total, Direct Receipts ..			(5) Special tools and plant ..	..	..
			Add—Unclassifiable outlay ..	..	..
Share of land revenue collected in the Civil Department.	957	52,579	Total ..	7,555	4,94,435
Total, Public Works and Civil Department—Revenue.	30,203	24,28,551	Total, Extensions and Improvements and Maintenance and Repairs.	7,555	5,46,372
			IV. ESTABLISHMENT ..	1,151	1,40,807
			V. TOOLS AND PLANT ..	1	2,577
			VI. REFUNDS OF REVENUE ..	..	45
			Deduct—Recoveries on revenue account.	..	296
			Total, Direct Charges ..	8,707	6,90,005
			Share of collection charges in the Civil Department.	1,506	1,28,510
			Indirect charges ..	76	20,099
			Total, Direct and Indirect Charges.	10,289	8,38,614

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

	4,68,495	6,076		4,68,495
	3,70,119	4,213		3,70,119
	20,58,432	25,990		20,58,432
	24,28,551	30,203		24,28,551
Total receipts ..	30,203	24,28,551		
(a) Extensions and improvements ..	..	2,283		
Maintenance and repairs ..	..	3,097		
Establishment ..	..	641		
Tools and plant ..	..	1		
Indirect charges ..	..	6,022		
Total, Direct Charges ..	6,022	54		
Total, Direct and Indirect ..	6,076	6,076		
Deduct—Old maintenance charges saved to Government (a) ..	..	..		
Balance, net revenue ..	..	..		
Net Total ..	..	..		
Grand Total ..	..	..		

CHEMBRAMBAKKAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–37 ..	15,22,847	Net revenue realized to end of 1936–37 ..	20,32,442
* Total interest charges for the year 1937–38 ..	28,334	Net revenue realized during 1937–38 ..	25,990
Balance, net revenue ..	5,07,251		
Total ..	20,58,432	Total ..	20,58,432
* Interest at 4.35 per cent on Rs. 6,51,348 representing outlay to end of 1936–37 plus half the outlay during 1937–38 ..			
	28,334		
Total ..	28,334		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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 ..	76	1,608
Total ..	76	20,099
Grand Total ..	76	1,32,894

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

The construction estimate of the project was closed on 31st March 1938.

MARUDUR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1937–1938.

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

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.MARUDUR ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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	..	16			
5. Receipts from plantations	695	9,939			
6. Receipts from other canal produce	646	36,505			
9. Rents of buildings	12	124			
11. Miscellaneous	114	10,534			
Recoveries of expenditure	94	146			
<i>Deduct—Refunds</i>	266	545			
Total revenue realized in Public Works Department	1,295	56,719			
Irrigation revenue realized in Civil Department	61,975	53,78,082			
Total, Direct Receipts	63,270	54,34,801			
			I. EXTENSIONS AND IMPROVEMENTS—		
			(1) Head works	292	1,512
			(2) Main canals and branches	1,845	48,152
			(3) Distributaries	..	10,636
			(4) Drainage and protective works	9,951	25,436
			(5) Special tools and plant	..	11,000
			<i>Add—Unclassifiable outlay</i>	..	..
			Total	12,088	96,736
			II. MAINTENANCE AND REPAIRS—		
			(1) Head works	1,252	75,318
			(2) Main canals and branches	14,680	5,11,948
			(3) Distributaries	203	1,04,950
			(4) Drainage and protective works	..	55,118
			(5) Special tools and plant	..	..
			<i>Add—Unclassifiable outlay</i>	..	1,98,634
			Total	16,135	9,45,968
			Total, Extensions and Improvements and Maintenance and Repairs		10,42,704
			IV. ESTABLISHMENT		2,87,055
			V. TOOLS AND PLANT		949
			VI. REFUNDS OF REVENUE		145
			<i>Deduct—Recoveries on Revenue account.</i>		17
			Total, Direct Charges		13,30,836

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT

MARUDUR ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937-1938—cont.

Receipts.	TOTAL.		Charges.	TOTAL.
	During the year.	To end of the year.		
RS.	RS.	RS.	RS.	RS.
Share of land revenue collected in the Civil Department	279	15,820	Share of collection charges in the Civil Department	3,113
Total, Public Works and Civil Departments, Revenue	63,549	54,50,621	Indirect charges	282
			Total, Direct and Indirect Charges.	41,331
			Deduct—Old maintenance charges saved to Government (a)	6,355
			Net Total	34,976
			Balance, Net revenue	28,573
Total, Receipts	63,549	54,50,621	Grand Total	63,549
				54,50,621

(a) Extensions and Improvements	RS.
Maintenance and Repairs	200
Establishment	4,500
Tools and Plant	1,605
	3
Total, Direct Charges	6,308
Indirect Charges	47
Total, Direct and Indirect	6,355

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

MARUDUR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-37	1,00,142	Net revenue realized to end of 1936-1937	40,33,708
* Total interest charges for the year 1937-1938	2,554	Net revenue realized during 1937-1938	28,573
Balance, Net revenue	39,59,585		
Total	40,62,281	Total	40,62,281

* Interest at 4.35 per cent on Rs. 58,721 representing outlay to end of 1936-1937 and half the outlay during 1937-1938	2,554
Total	2,554

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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	282	5,202
Total	282	28,012
Grand Total	282	29,413

IRRIGATION BRANCH.

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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.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.
	RS.	RS.	RS.		RS.
<i>Direct Charges.</i>					
Works ..	..	..	..	..	..
Establishment ..	32,590	15,335	..	..	47,925
Tools and plant ..	7,496	3,324	..	..	10,820
Suspense account ..	..	24	..	..	24
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 ..	..	..	..	..	..
Leave and pension allowances ..	1,049	287	..	..	1,336
Audit and accounts ..	..	65	..	..	65
Total ..	1,049	352	..	..	1,401
Grand Total ..	41,135	18,987	..	..	60,122

The construction estimate of the Project was closed in 1893.

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

PENNAR RIVER CANALS SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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 ..	27,612	9,13,056	9,17,003
(2) Main canals and branches ..	376	16,13,408	16,14,944
Reservoirs ..	..	77,965	77,965
(3) Distributaries ..	..	13,03,499	13,78,259
(4) Drainage and Protective works ..	..	3,33,983	3,39,483
(5) Water courses ..	..	..	14,340
Unforeseen works ..	..	60	2,890
Old outlay ..	..	5,26,117	5,26,117
Total Works ..	27,988	47,68,088	48,71,001
II. Establishment ..	9,126	10,08,625	10,32,563
III. Tools and plant ..	161	1,44,947	1,48,296
V. <i>Less—Receipts on capital account</i> ..	..	2,858	2,858
Net outlay in India and England ..	37,275	59,18,802	60,49,002

DRYING AND DRYED CANALS SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

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	11	I. EXTENSIONS AND IMPROVEMENTS—		
5 Receipts from plantations ..	221	2,766	(1) Head works	43	21,475
6 Receipts from other canal produce.	1,228	1,02,485	(2) Main canals and branches ..	5,041	1,35,429
8 Navigation	336	2,770	(3) Distributaries	1,084	2,81,633
9 Rents of buildings	493	17,906	(4) Drainage and protective works.	..	39,826
10 Fines	..	11	(5) Special tools and plant ..	..	207
11 Miscellaneous	318	20,723	Add—Unclassifiable outlay ..	..	8,370
Recoveries of expenditure ..	657	5,917	Total ..	6,168	4,85,926
Deduct—Refunds	29	5,927			
Total, Revenue realized in Public Works Department	3,235	1,46,662	II. MAINTENANCE AND REPAIRS—		
Irrigation revenue realized in Civil Department	4,73,934	2,44,21,425	(1) Head works	12,354	5,97,254
Total, Direct Receipts ..	4,77,169	2,45,68,087	(2) Main canals and branches ..	23,732	16,82,537
			(3) Distributaries	57,864	15,55,046
			(4) Drainage and protective works.	4,568	1,71,414
			(5) Special tools and plant ..	..	549
			Add—Unclassifiable outlay ..	..	23,236
			Total ..	98,518	40,30,036
II. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	72,179	30,17,585	III. COMPENSATION	..	7,390
Total, Public Works and Civil Departments, Revenue..	5,49,348	2,75,85,672	Total, Extensions and Improvements and Maintenance and Repairs ..	1,04,686	45,23,352
			IV. ESTABLISHMENT	42,967	21,06,568
			V. TOOLS AND PLANT	605	38,476
			VI. REFUNDS OF REVENUE	..	1,907
			Total, Direct Charges	1,48,258	66,70,303
			Share of collection charges in the Civil Department	26,185	13,84,385
			Indirect charges	1,047	2,88,219
			Total, Direct and Indirect Charges.	1,75,490	83,42,907

**ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.**

	* Deduct—Old maintenance charges saved to Government	39,790	25,65,306
		<u>1,35,700</u>	<u>57,77,401</u>
	Balance, Net revenue .. .	4,13,648	2,18,08,271
		<u>5,49,348</u>	<u>2,75,85,672</u>
Total, Receipts .. .	5,49,348		
			<u>2,75,85,672</u>
		RS.	
*	Direct—		
	Extensions and improvements	3,909	
	Maintenance and repairs	25,744	
	Establishment	9,669	
	Tools and plant	171	
		<u>39,493</u>	
	Indirect	297	
		<u>39,790</u>	
	Total, Direct and Indirect .. .		39,790

PENNAR RIVER CANALS SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–1937 ..	1,11,65,062	Net revenue realized to end of 1935–1937 ..	2,13,94,023
* Total interest charges for the year 1937–1938 ..	2,56,657	Net revenue realized during 1937–1938 ..	4,13,648
Balance, net revenue ..	1,03,86,552		
Total ..	2,18,08,271	Total ..	2,18,08,271

* Interest at 4·35 per cent on Rs. 59,00,164 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 2,56,657

Total .. 2,56,657

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	8,56,767
Leave and pension allowances	..	1,57,657
Audit and accounts	280	1,477
Total ..	280	10,15,901
REVENUE—		
Capitalization of abatement of land revenue	..	33,353
Leave and pension allowances	..	2,36,951
Audit and accounts	1,047	17,915
Total ..	1,047	2,88,219
Grand Total ..	1,327	13,04,129

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.
<i>Direct Charges.</i>							
Works	37,49,097	9,39,744	46,88,841	79,247	1,82,160	1,02,913	47,68,088
Establishment	8,05,532	1,76,106	9,81,638	26,987	50,925	23,938	10,08,625
Tools and plant	1,42,971	1,682	1,44,653	294	3,643	3,349	1,44,947
Suspense account	..	..	..	..	..	..	..
Total ..	46,97,600	11,17,532	58,15,132	1,06,528	2,36,728	1,30,200	59,21,660
Less—Receipts on Capital Account.	55	2,803	2,858	..	..	..	2,858
Net Total ..	46,97,545	11,14,729	58,12,274	1,06,528	2,36,728	1,30,200	59,18,802
<i>Indirect Charges.</i>							
Capitalized statement of land revenue	7,99,748	57,019	8,56,767	..	1,196	1,196	8,56,767
Leave and pension allowances	1,35,090	22,567	1,57,657	..	..	..	1,57,657
Audit and accounts	..	684	684	793	1,822	1,029	1,477
Total ..	9,34,838	80,270	10,15,108	793	3,018	2,225	10,15,901
Grand Total ..	56,32,383	11,94,999	68,27,382	1,07,321	2,29,746	1,32,425	69,34,703

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.

No. 2.—Capital Account for and to end of 1937-1938.
[Vide details on page 67 of the Administrative Accounts
for 1934-1935.]

No. 3.—Revenue Account for and to end of 1937-1938.

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—					
Plantations	376	3,542	I. EXTENSIONS AND IMPROVEMENTS—		
Receipts from other canal produce ..	..	751	(1) Head works	..	1,130
Fines	..	1	(2) Main canals and branches ..	5,459	45,088
Miscellaneous	96	5,722	(3) Distributaries	..	882
			(4) Drainage and protective works ..	..	..
			(5) Special tools and plant ..	..	..
			Add—Unclassifiable outlay ..	..	11,475
			Total ..	5,459	58,575
II. MAINTENANCE AND REPAIRS—					
Total, Revenue realized in Public Works Department	472	10,016	(1) Head works	..	4,366
Irrigation Revenue realized in Civil Department	14,257	9,19,217	(2) Main canals and branches ..	5,463	1,86,667
			(3) Distributaries	..	2,514
			(4) Drainage and productive works ..	..	..
			(5) Special tools and plant ..	..	..
			Add—Unclassifiable outlay ..	..	1,73,223
Total, Direct Receipts ..	14,729	9,29,233	Total ..	5,463	3,66,770
			Total, Extensions and Improvements and Maintenance and Repairs ..	10,922	4,25,345
			IV. ESTABLISHMENT	2,834	1,05,697
			V. TOOLS AND PLANT	30	1,738
			VI. REFUNDS OF REVENUE	..	43
			Deduct—RECOVERIES ON REVENUE ACCOUNT	..	5
			Total, Direct Charges ..	13,786	5,32,818

ARKENKOTA CHANNEL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938—*cont.*

Receipts.		TOTAL.		Charges.	
	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	428	26,521	Share of collection charges in the Civil Department	734	47,287
			Indirect Charges	109	12,131
Total, Public Works and Civil Departments, Revenue \$	15,157	9,55,754	Total, Direct and Indirect charges ..	14,629	5,92,236
			Deduct—Old maintenance charge saved to Government *	1,112	30,413
			Balance, net revenue	13,517	5,61,823
				1,640	3,93,931
Total, Receipts	15,157	9,55,754	Grand total	15,157	9,55,754
			* Direct—		
			Extensions and improvements		793
			Maintenance and repairs		100
			Establishment		208
			Tools and plant		2
			Total, Direct	1,103	9
			Indirect		1,112
			Total, Direct and Indirect		1,112

** Direct—*

Extensions and improvements ..
Maintenance and repairs ..
Establishment
Tools and plant

Indirect

.. .. .
Total, Direct and Indirect

6
1,103

ARKENKOTA CHANNEL—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937 ..	3,02,501	Net revenue realized to end of 1936-1937	3,92,291
* Total interest charges for the year 1937-1938 ..	6,124	Net revenue realized during 1937-1938	1,640
Balance, net revenue ..	85,306		
Total ..	3,93,931	Total ..	3,93,931

* Interest at 4.35 per cent on Rs. 1,40,769 representing outlays to end of 1936-1937 plus half the outlay during 1937-1938.

plus half the g 1937-1938.	6,124
Total ..	<u>6,124</u>

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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	..	..	..	109	1,306
Total				109	12,131
Grand Total				109	15,807

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	81,578	32,927	1,14,505	..	..	..	1,14,505
Establishment	18,760	7,504	26,264	..	..	..	26,264
Tools and plant	..	..	..	..	..	..	..
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	2,626	1,050	3,676	..	..	..	3,676
Leave and pension allowances	2,626	1,050	3,676	..	..	..	3,676
Total ..	5,252	2,100	7,352	..	..	..	7,352
Grand Total ..	1,05,590	42,531	1,48,121	..	..	..	1,48,121

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 1937-1938.

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

TIRUKKOVILUR ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

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	..	756	(1) Head works	7,612	13,497
5. Receipts from plantations	..	42,011	(2) Main canals and branches	2,767	62,755
6. Receipts from other canal produce.	..	7,181	(3) Distributaries	..	59,197
9. Rents of buildings	..	910	(4) Drainage and protective works.	..	20,015
Fines	..	2	(5) Special tools and plant	..	..
11. Miscellaneous	..	954	Total	10,379	1,55,464
Recoveries of expenditure	..	121			
Deduct—Refunds	..	685	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in Public Works Department	871	51,250	(1) Head works	10,211	1,12,079
Irrigation Revenue realized in Civil Department	52,865	28,81,258	(2) Main canals and branches	7,744	3,41,091
Total, Direct Receipts	53,736	29,32,508	(3) Distributaries	11,359	2,70,768
II. INDIRECT RECEIPTS—			(4) Drainage and protective works.	..	8,680
Share of Land Revenue collected in the Civil Department	3,369	2,15,222	(5) Special tools and plant	..	..
Total, Public Works and Civil Departments, Revenue	57,105	31,47,730	Add—Unclassifiable outlay	..	1,95,063
			Total	29,314	9,27,681
			Total, Extensions and Improvements and Maintenance and Repairs	39,693	10,83,145
			IV. ESTABLISHMENT	19,837	3,46,809
			V. TOOLS AND PLANT	95	3,225
			VI. REFUNDS OF REVENUE	..	303
			Deduct—Recoveries on Revenue account	..	194
			Total, Direct Charges	59,625	14,33,288

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

Share of collection charges in the Civil Department	2,812	1,54,824
Indirect Charges	410	36,278
Total, Direct and Indirect Charges	62,847	16,24,390
Deduct—Old maintenance charges saved to Government	7,263	1,74,284
Balances, net revenue	55,584	14,50,106
Net Total	1,521	16,97,624
Grand Total	57,105	31,47,730
		RS.
Total, Receipts	57,105	31,47,730
Direct—		
Extensions and improvements	..	1,972
Maintenance and repairs	..	2,960
Establishment	..	2,270
Tools and plant	..	12
Total, Direct	7,214	..
Indirect	..	49
Total, Direct and Indirect	7,263	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

TIRUKKOYILUR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–1937 ..	7,32,825	Net revenue realized to end of 1936–1937 ..	16,96,103
* Total interest charges for the year 1937–1938 ..	16,930	Net revenue realized during 1937–1938 ..	1,521
Balance, net revenue ..	9,47,869		
Total ..	16,97,624	Total ..	16,97,624
* Interest at 4·35 per cent on Rs. 3,89,189 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 ..	16,930		
Total ..	16,930		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	To end of the year.
	RS.	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 ..	13	452
Leave and pension allowances ..	..	32,094
Audit and accounts ..	397	3,732
Total ..	410	36,278
Grand Total ..	410	46,279

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

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.
	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.
Direct Charges.					
Works ..	2,01,391	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.

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PUBLIC WORKS DEPARTMENT.

SHATIATOPE ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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	..	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. ..	151	4,399	4,399
(6) Special tools and plant	..	..	..
Total works	151	9,03,113	9,03,113
II. ESTABLISHMENT	70	1,26,113	1,26,113
III. TOOLS AND PLANT	1	660	660
Total outlay in India and England ..	222	10,29,886	10,29,886

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ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

SHATIATOPE ANICUT SYSTEM—Canal Project—cont. No. 3.—Revenue Account for and to end of 1937-1938.

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	..	20,348	(1) Head works	107	9,786
6. Receipts from other canal produce ..	..	7,053	(2) Main canals and branches	47	54,052
8. Navigation receipts	..	4	(3) Distributaries	218	30,174
9. Rents of buildings	..	3,223	(4) Drainage and protective works ..	..	849
10. Fines	..	4	(5) Special tools and plant	..	21,316
11. Miscellaneous	..	2,072	Add—Unclassifiable outlay	..	..
Recoveries of expenditure	..	317	Total	372	1,16,177
Deduct—Refunds	..	449	II. MAINTENANCE AND REPAIRS—		
			(1) Head works	7,333	1,47,580
			(2) Main canals and branches	11,448	4,14,497
			(3) Distributaries	5,711	2,00,596
			(4) Drainage and protective works. ..	..	2,970
			(5) Special tools and plant	..	..
			Add—Unclassifiable	..	2,87,678
			Total	24,492	10,53,321
Total, Revenue realized in Public Works Department	372	32,572	Total Extensions and Improvements and Maintenance and repairs	24,864	11,69,498
Irrigation revenue realized in Civil Department	1,02,836	63,57,810	IV. ESTABLISHMENT	15,033	4,17,059
			V. TOOLS AND PLANT	60	3,733
			VI. REFUNDS OF REVENUE	..	249
			Deduct—Recoveries on Revenue account ..	..	359
Total, Direct Receipts	1,03,208	63,90,382	Total, Direct Charges	39,957	15,90,180

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

SHATIA TOPE ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938—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	13,66,625	Share of collection charges in the Civil Department	5,993	3,86,219
Total, Public Works and Civil Departments, Revenue	1,20,239	77,57,007	Indirect charges	248	44,924
			Total, Direct and Indirect Charges ..	46,198	20,21,323
			Deduct—Old maintenance charges saved to Government *	2,420	58,089
			Balance, net revenue	43,778	19,63,234
Total, Receipts ..	1,20,239	77,57,007	Net Total	76,461	57,93,773
			Grand Total	1,20,239	77,57,007

* Direct—

	RS.
Extensions and improvements	64
Maintenance and repairs	1,580
Establishment	756
Tools and plant	4
Total, Direct	2,404
Indirect	16
Total, Direct and Indirect	2,420

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

SHATIA TOPE ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest account for and to end of 1937-1938.

		Amount.			Amount.
		RS.			RS.
Total interest charges to end of 1936-1937	10,99,143		Net revenue realized to end of 1936-1937	57,17,312	
* Total interest charges for the year 1937-1938	44,795		Net revenue realized during 1937-1938	76,461	
Balance, net revenue	46,49,835				
Total	<u>57,93,773</u>		Total	<u>57,93,773</u>	
* Interest at 4.35 per cent on Rs. 10,29,775 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938					
	44,795				
Total	<u>44,795</u>				

No. 5.—Account of indirect charges for and to end of 1937-1938.

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	2	927
Total	2	59,675
REVENUE—		
Capitalized abatement of land revenue	..	685
Leave and pension allowances	..	40,369
Audit and accounts	248	3,870
Total	248	44,924
Grand Total	250	1,04,599

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PUBLIC WORKS DEPARTMENT.

SHATIATOPE 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	1,09,182	7,93,931	9,03,113	..	..	..	9,03,113
Establishment	24,702	1,01,411	1,26,113	..	..	..	1,26,113
Tools and plant	..	660	660	..	..	..	660
Suspense account	..	..	..	..	..	..	..
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 1895.

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MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

CHEYYAR ANICUT SYSTEM—Canal Project.

No. 2.—Capital account for and to end of 1937-1938.

Heads of account.	DIRECT CHARGES.		Cost of construction as now estimated.
	During the year.	To end of the year.	
		RS.	RS.
I. WORKS—			
(1) <i>Head works</i>	..	56,860	56,860
(2) <i>Main Canals and branches</i>	..	2,84,626	2,84,626
(3) <i>Distributaries</i>	..	78,677	78,677
(6) <i>Special tools and plant</i>	..	..	..
Total, Works	..	4,20,163	4,20,163
II. ESTABLISHMENT	..	1,03,941	1,03,941
III. TOOLS AND PLANT	..	744	744
IV. LESS RECEIPTS ON CAPITAL ACCOUNT.	..	50	50
Net outlay in India and England	..	5,24,798	5,24,798

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

CHEYVAB ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue account for and to end of 1937-1938.

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 ..	12	15,848	(1) Head works ..	975	13,278
6 Receipts from other canal produce.	18	11,521	(2) Main canals and branches ..	126	25,314
9 Rents of buildings ..	180	4,114	(3) Distributaries ..	1,502	1,11,098
11 Miscellaneous ..	954	13,074	(4) Drainage and protective works.	..	1,919
Recoveries of expenditure ..	..	31	(5) Special tools and plant ..	..	..
Deduct—Refunds ..	..	33	Add—Unclassifiable outlay ..	..	39,441
Total, Revenue realized to Public Works Department.	1,164	44,555	Total ..	2,603	1,91,050
Irrigation revenue realized in Civil Department.	50,721	31,11,848	II. MAINTENANCE AND REPAIRS—		
			(1) Head works ..	4,748	74,658
			(2) Main canals and branches ..	4,754	2,10,773
			(3) Distributaries ..	13,551	9,40,538
			(4) Drainage and protective works.	..	13,489
			(5) Special tools and plant ..	..	..
			Add—Unclassifiable outlay ..	..	2,78,001
Total, Direct Receipts ..	51,885	31,56,403	Total ..	23,053	15,17,459
			Total, Extensions and Improvements and Maintenance and Repairs.	25,656	17,08,509
			IV. ESTABLISHMENT ..	6,873	4,72,732
			V. TOOLS AND PLANT ..	69	8,080
			VI. REFUNDS OF REVENUE ..	..	832
			Deduct—Recoveries on Revenue account.	..	9
			Total, Direct Charges ..	32,598	21,90,144

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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MADRAS PRESIDENCY.

I. INDIRECT RECEIPTS—			Share of collection charges in the Civil Department.	2,701	1,68,159
Share of land revenue collected in the Civil Department.	4,735	2,69,323	Indirect charges ..	257	53,157
Total, Public Works and Civil Departments, Revenue.	56,620	34,25,726	Total, Direct and Indirect charges ..	35,556	24,11,460
			* Deduct—Old maintenance charges saved to Government.	3,997	1,10,021
			Net Total ..	31,559	23,01,439
			Balance, net revenue.	25,061	11,24,287
Total, Receipts ..	56,620	34,25,726	Grand Total ..	56,620	34,25,726
* Direct—					
Extensions and improvements ..	..	..	RS.		
Maintenance and repairs ..	..	..	2,566		
Establishment ..	..	..	640		
Tools and plant ..	..	..	750		
			9		
Indirect ..	..	..	Total, Direct ..	3,965	
Total, Direct and Indirect ..	..	..	32		
			Total, Direct and Indirect ..	3,997	

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CHEYYAR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–37.	9,69,425	Net revenue realized to end of 1936–37.	10,99,226
* Total interest charges for the year 1937–38.	22,829	Net revenue realized during 1937–38.	25,061
Balance, net revenue ..	1,32,033		
Total ..	11,24,287	Total ..	11,24,287
* Interest at 4.35 per cent on Rs. 5,24,798 representing outlay to end of 1936–37 plus half the outlay during 1937–38			
	22,829		
Total ..	22,829		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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 ..	..	15,201
REVENUE—		
Leave and pension allowances	..	45,944
Audit and accounts	257	7,213
Total ..	257	53,157
Grand Total ..	257	68,358

MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

CHEYYAR 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.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
	RS.	RS.	RS.			RS.
Direct charges.						
Works ..	..	..	..	..	..	4,20,163
Establishment ..	3,20,865	99,298	..	..	..	1,03,941
Tools and plant ..	73,542	30,399	..	..	..	744
Suspense account ..	..	..	..	..	..	..
Total ..	3,94,407	1,30,441	..	..	..	5,24,848
Less—Receipts on capital account ..	..	50	..	..	..	50
Net Total ..	3,94,407	1,30,391	..	..	..	5,24,798
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 ..	11,040	4,161	..	..	..	15,201
Grand Total ..	4,05,447	1,34,552	..	..	..	5,39,999

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

CUMBUM TANK—*Tank Project*.

No. 2.—Capital Account for and to end of 1937–1938.

[For details on page 87 of the Administrative Accounts for 1934–35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

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MADRAS PRESIDENCY.

CUMBUM TANK—*Tank Project*—cont.

No. 3.—Revenue Accounts for and to end of 1937–1938.

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—			
6. Other canal produce	..	111	(1) Head works	..	..	418
11. Miscellaneous	..	11	(2) Main canals and branches	..	..	3,621
			(3) Distributaries	..	..	6,397
Total, Revenue realized in Public Works Department	..	122	(4) Drainage and protective works	..	..	..
Irrigation Revenue realized in Civil Department	3,042	2,89,467	(5) Special tools and plant	..	..	7,186
			Add—Unclassifiable outlay	..	..	17,622
			Total	..	..	..
			II. MAINTENANCE AND REPAIRS—			
			(1) Head works	223	8,408	
			(2) Main canals and branches	468	33,233	
			(3) Distributaries	6	33,031	
			(4) Drainage and protective works	..	1,047	
			(5) Special tools and plant	..	..	24,128
			Add—Unclassifiable outlay	..	99,847	
			Total	697	1,17,469	
			Total, Extensions and Improvements and Maintenance and Repairs	697		
Total, Direct Receipts	3,042	2,89,589				

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PUBLIC WORKS DEPARTMENT.

CUMBUM TANK—Tank Project—cont.

No. 3.—Revenue Accounts for and to end of 1937–1938—cont.

Receipts.	TOTAL.		Charges.	
	During the year. RS.	To end of the year. RS.	During the year. RS.	To end of the year. RS.
I. INDIRECT RECEIPTS—				
Share of land revenue collected in the Civil Department	461	28,777	IV. ESTABLISHMENT	..
.. ..			V. TOOLS AND PLANT	..
.. ..			VI. REFUNDS OF REVENUE	..
Total, Public Works and Civil Departments—Revenue	3,503	3,18,366	Total, Direct charges ..	1,146
			Share of collection charges in the Civil Department	175
			Indirect charges	7
			Total, Direct and Indirect charges ..	1,328
			(a) Deduct—Old maintenance charges saved to Government	1,202
			Balance, net revenue	126
Total, Receipts	3,503	3,18,366	Net Total	3,377
			Grand Total	3,503
			RS.	
(a) Extensions and improvements	..	..	..	..
Maintenance and repairs	..	..	..	793
Establishment	..	..	..	399
Tools and plant	..	..	..	2
Indirect charges	..	..	Total, Direct charges	1,194
			Total, Direct and Indirect charges ..	1,202

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

CUMBUM TANK—Tank Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937	1,43,940	Net revenue realized to end of 1936–1937	1,80,230
* Total interest charges for the year 1937–1938	3,653	Net revenue realized during 1937–1938	3,377
• Balance, net revenue	36,014		
Total	1,83,607	Total	1,83,607
	RS.		
* Interest at 4.35 per cent on Rs. 83,985 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938	3,653		
Total	3,653		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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	7	303
Total	7	7,013
Grand Total	7	9,401

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 1936.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

POINEY ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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

POINNEY ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

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 plantations ..	56	5,233	(1) Head works ..	474	8,022	
6. Receipts from other canal produce ..	65	9,362	(2) Main canals and branches ..	219	24,094	
9. Rents of buildings ..	44	1,866	(3) Distributaries ..	341	52,089	
11. Miscellaneous ..	..	4,597	(4) Drainage and protective works ..	..	49,029	
Recoveries of expenditure ..	2	874	(5) Special tools and plant ..	..	..	
Deduct—Refunds ..	1	8	Total ..	1,534	1,33,234	
Total, Revenue realized in Public Works Department ..	166	21,924	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department ..	59,331	31,82,956	(1) Head works ..	2,068	1,21,328	
Total, Direct Receipts ..	59,497	32,04,880	(2) Main canals and branches ..	1,377	1,26,366	
INDIRECT RECEIPTS—			(3) Distributaries ..	23,648	4,45,268	
Share of Land Revenue collected in the Civil Department ..	5,488	3,67,628	(4) Drainage and protective works ..	..	..	
			(5) Special tools and plant ..	..	..	
			Add—Unclassifiable outlay ..	..	2,76,594	
			Total ..	27,093	9,69,556	
			Total, Extensions and Improvements and Maintenance and Repairs ..	28,627	11,02,790	
			IV. ESTABLISHMENT ..	7,514	3,22,093	
			V. TOOLS AND PLANT ..	79	4,497	
			VI. REFUNDS OF REVENUE ..	..	461	
			Deduct—Recoveries on Revenue account ..	..	5	
			Total, Direct charges ..	36,220	14,29,836	
			Share of collection charges in the Civil Department ..	3,238	1,77,440	
			Indirect charges ..	286	37,475	

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PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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Total, Public Works and Civil Departments, Revenue ..	64,985	35,72,508	Total, Direct and Indirect charges. * Deduct—Old maintenance charges saved to Government ..	39,744	16,44,751
			Net Total ..	3,893	1,07,166
			Balance, net revenue ..	35,851	15,37,585
			Grand Total ..	29,134	20,34,923
Total, Receipts ..	64,985	35,72,508		64,985	35,72,508
* Direct—					
Extensions and improvements ..	..	..	RS.	..	..
Maintenance and repairs ..	..	..	3,057	..	..
Establishment ..	..	..	66	..	..
Tools and plant ..	..	..	730	..	..
	..	..	9	..	..
Indirect ..	..	..	Total, Direct ..	3,862	..
	..	..	..	31	..
	..	..	Total, Direct and Indirect ..	3,893	..

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PUBLIC WORKS DEPARTMENT.

POINEY ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

Amount.	rs.	Amount.	rs.
Total interest charges to end of 1936–37 ..	6,29,955	Not revenue realized to end of 1935–36 ..	20,05,789
* Total interest charges for the year 1937–38 ..	12,836	Not revenue during 1936–37 ..	29,134
Balance, not revenue ..	13,92,132		
Total ..	20,34,923	Total ..	20,34,923
* Interest at 4.35 per cent on Rs. 2,95,106 representing outlay to end of 1936–37 plus half the outlay during 1937–38 ..			
		rs.	12,836
Total ..			12,836

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	To end of the year.
	RS.	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 ..	286	3,931
Total ..	286	37,475
Grand Total ..	286	46,287

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MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

POINEY 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.	RS.	RS.
Direct Charges.					
Works ..	..	..	..	..	2,34,263
Establishment ..	1,83,435	50,828	..	..	60,576
Tools and plant ..	42,189	18,387	..	..	267
Suspense account ..	..	..	..	..	..
Total ..	2,25,624	69,482	..	..	2,95,106
Less—Receipts on Capital account.	....	..	..	..	..
Net Total ..	2,25,624	69,482	..	..	2,95,106
Indirect Charges.					
Capitalized abatement of land revenue ..	165	..	..	..	165
Leave and pension allowances ..	5,907	2,573	..	..	8,480
Audit and accounts ..	..	167	..	..	167
Total ..	6,072	2,740	..	..	8,812
Grand Total ..	2,31,696	72,222	..	..	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 1937–1938.

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

PERIYAR SYSTEM—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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	6	460	I. EXTENSIONS AND IMPROVEMENTS—		4	6,98,624
4. Water-supply of towns ..	..	4,373	(1) Head works		12,588	1,31,720
5. Receipts from plantations ..	1,529	86,479	(2) Main canals and branches ..		3,411	3,21,339
6. Receipts from other canal produce	4,815	2,35,371	(3) Distributaries		..	16,984
8. Receipts from navigation ..	538	19,543	(4) Drainage and protective works ..		..	83
9. Rents of buildings	1,719	33,475	(5) Special tools and plant ..		15,995	11,68,750
10. Fines	..	841	Total		..	..
1. Miscellaneous	86	61,187	II. MAINTENANCE AND REPAIRS—			
Reco peries of expenditure ..	62	4,576	(1) Head works	8,313	5,32,891	
<i>Deduct—Refunds</i>	120	40,925	(2) Main canals and branches ..	31,627	11,17,986	
Total, Revenue realized in the Public Works Department	8,635	4,05,380	(3) Distributaries	34,976	10,82,531	
Irrigation revenue realized in Civil Department	5,68,119	2,48,58,944	(4) Drainage and protective works ..	..	85,383	
Total, Direct Receipts ..	5,76,754	2,52,64,224	(5) Special tools and plant ..	..	15,102	
			Total	74,916	28,33,893	
			III. COMPENSATION	42,965	17,77,558	
			Total, Extensions and Improvements and Maintenance and Repairs	1,33,876	57,80,201	
			IV. ESTABLISHMENT	54,722	22,00,662	
			V. TOOLS AND PLANT	94	86,578	
			VI. REFUNDS OF REVENUE	..	2,619	
			<i>Deduct—Recoveries of Revenue account.</i>	..	94	
			Total, Direct Charges ..	1,88,692	80,69,966	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

PERIYAR SYSTEM—*Tank Project*—cont.
No. 3.—Revenue Account for and to end of 1937–1938—*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	94,841	23,02,341	Share of collection charges in the Civil Department	29,422	12,69,764
			Indirect charges	1,954	2,40,666
			Total, Direct and Indirect Charges ..	2,20,068	95,80,396
Total, Public Works and Civil Departments, Revenue ..	6,71,595	2,75,66,565	Deduct—Old maintenance charges saved to Government * ..	35,011	13,24,310
			Net Total	1,85,057	82,56,086
			Balance, net revenue	4,86,538	1,93,10,479
Total, Receipts	6,71,595	2,75,66,565	Grand Total	6,71,595	2,75,66,565
			RS.		
			Extensions and improvements	4,474	
			Maintenance and repairs	21,422	
			Establishment	8,838	
			Tools and plant	18	
			Total, Direct	34,752	
			Indirect	259	
			Total, Direct and Indirect ..	35,011	

* Direct—

Extensions and improvements
Maintenance and repairs
Establishment
Tools and plant

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

PERIYAR SYSTEM—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–1937 ..	1,54,54,406	Net revenue realized to end of 1936–1937	1,88,23,941
*Total interest charges for the year 1937–1938 ..	4,55,211	Net revenue realized during 1937–1938	4,86,536
Balance, net revenue ..	34,00,862		
Total ..	1,93,10,479	Total ..	1,93,10,479
*Interest at 4.35 per cent on Rs. 1,04,64,627 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938.	4,55,211		
Total ..	4,55,211		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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	615	28,096
Leave and pension allowances		1,79,782
Audit and accounts	1,339	32,808
Total ..	1,954	2,40,666
Grand Total ..	1,954	6,11,693

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. RS.	Amount of sanctioned estimate. RS.	Unspent balance of estimate. RS.	
<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	7,28,291	38,606	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.	14,203	7,108	21,311	..	..	..	21,311
Net 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 L., dated 8th September 1903.)

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

KISTNA DELTA SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated. RS.
	During the year. RS.	To end of the year. RS.	RS.	
I. WORKS—				
(1) Head works	..	11,96,507	..	11,96,507
(2) Main canals and branches	16,178	63,57,067	— 14,23,623	49,83,013
(3) Distributaries	2,82,804	35,76,128	— 6,88,516	37,90,720
(4) Drainage and protective works	43,839	34,15,447	— 1,39,941	33,98,568
(5) Water courses	30,885	1,89,049	— 1,29,131	2,00,974
(6) Special tools and plant. Old outlay	..	30,81,755	..	30,81,755
Total, Works.	3,73,706	1,78,15,953	— 23,81,211	1,66,51,537
II. ESTABLISHMENT	1,17,989	40,68,653	— 3,14,160	40,45,383
III. TOOLS AND PLANT	1,993	7,33,046	— 10,612	7,65,574
IV. SUSPENSE	..	..	..	..
V. Less—RECEIPTS ON CAPITAL ACCOUNT	20,017	48,235	— 4,883	43,352
Net outlay in India and England	4,73,671	2,25,69,417	— 27,01,100	2,14,19,142

NOTE.—The minus entries appearing in column "To end of the year" in respect of accounts 2, 3, 4 and 5 of this system represent the figures relating to the Kistna East Bank Canal Scheme transferred to the Divi Pumping System (now called "The Kistna East Bank Canal Extension Scheme") with reference to the orders of Government in G.O. Ms. No. 1685, P.W.D., dated 14th August 1937, and Memorandum No. 9280/37-3, dated 22nd October 1937—vide also foot-note on page 119.

PUBLIC WORKS DEPARTMENT.

KISTNA DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937-1938.

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	4,647	59,094	(1) Head works	2,500	1,84,214
4 Water-supply of towns ..	3,676	94,474	(2) Main canals and branches.	44,907	8,22,375
5 Receipts from plantations.	3,500	4,34,872	(3) Distributaries	17,402	7,85,123
6 Receipts from other canal produce	39,330	14,38,644	(4) Drainage and protective works	1,685	3,88,428
7 Water power	..	1,281	(5) Special tools and plant.	..	19,664
			Total ..	66,494	21,99,804
8 Navigation receipts ..	1,08,640	36,59,660	II. MAINTENANCE AND REPAIRS—		
9 Rents of buildings ..	3,776	1,15,538	(1) Head works	33,699	17,86,783
10 Fines	12	943	(2) Main canals and branches.	2,61,411	1,11,24,322
11 Miscellaneous	849	1,51,222	(3) Distributaries	1,33,333	54,03,774
Recoveries of expenditure.	130	13,201	(4) Drainage and protective works	72,642	19,08,217
Deduct—Refunds	953	13,992	(5) Special tools and plant.	..	2,30,755
			Add—Unclassifiable outlay.	..	9,10,934
Total Revenue realized in the Public Works Department.	1,63,607	59,54,937	Total ..	5,01,085	2,13,64,785
					— 9,575
Irrigation Revenue realized in the Civil Department ..	38,95,507	17,41,75,809	Total, Extensions and Improvements and Maintenance and Repairs ..	5,67,579	235,64,589
			IV. ESTABLISHMENT ..	2,87,959	1,38,03,825
Total, Direct Receipts ..	40,59,114	18,01,30,746	V. TOOLS AND PLANT ..	3,280	19,46,546
			VI. REFUNDS OF REVENUE ..	..	25,907
			Deduct—Recoveries on Revenue Account ..	..	4,984

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

II. INDIRECT RECEIPTS—			Total, Direct Charges.		
Share of land revenue collected in the Civil Department.	1,89,556	1,07,11,965	Share of collection charges in the Civil Department ..	8,58,818	3,83,35,883
			Indirect charges	2,00,656	95,23,054
Total, Public Works and Civil Departments—Revenue ..	42,48,670	19,08,42,711	Total, Direct and Indirect Charges ..	5,676	16,43,981
			Balance, net revenue ..	10,65,150	5,05,32,918
Total, Receipts ..	42,48,670	19,08,42,711	Grand Total ..	31,83,520	14,03,09,793
				42,48,670	19,08,42,711

Vide foot-note on page 92.

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

KISTNA DELTA SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

Particulars.	Amount.	Particulars.	Amount.
	RS.		RS.
Total interest charges to end of 1936–1937 ..	3,17,59,617	Net revenue realized to end of 1936–1937 ..	13,71,26,273
* Total interest charges for the year 1937–1938 ..	2,18,018	Net revenue realized during 1937–1938 ..	13,661
Balance net revenue ..	8,53,969		31,83,520
Total ..	10,79,27,886	Total ..	31,83,520
	14,03,23,454		14,03,23,454
* Interest at 4.35 per cent on Rs. 1,96,31,482 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 ..	8,53,969		
Total ..	8,53,969		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	To end of the year.	
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	19,717	6,65,475	14,541
Leave and pension allowances ..	..	5,03,855	..
Audit and Accounts ..	3,738	56,503	23,812
Total ..	23,455	12,25,833	38,353
REVENUE—			
Capitalization of abatement of land revenue ..	..	28,524	..
Leave and pension allowances ..	..	15,11,522	..
Audit and Accounts ..	5,676	1,03,935	96
Total ..	5,676	16,43,981	96
Grand Total ..	29,131	28,69,814	38,449

Vide foot-note on page 99.

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

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.	Unspent balance of estimate.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direct charges.							
Works Establishment ..	94,90,888	47,92,241	1,42,83,129	11,51,613	23,68,408	12,16,795	1,54,34,742
Tools and plant ..	22,14,258	12,11,886	34,26,144	3,28,349	6,19,239	2,90,890	37,54,493
Suspense account ..	6,60,944	57,262	7,18,206	4,228	47,368	43,140	7,22,434
Total ..	1,23,66,090	60,61,389	1,84,27,479	14,84,190	30,35,015	15,50,825	1,99,11,669
Less—Receipts on Capital Account.	15,400	27,952	43,352	..	..	..	43,352
Net Total ..	1,23,50,690	60,33,437	1,83,84,127	14,84,190	30,35,015	15,50,825	1,98,68,317
Indirect Charges.							
Capitalized abatement of land revenue ..	4,53,037	1,97,897	6,50,934	..	44,734	44,734	6,50,934
Leave and pension allowances ..	3,87,938	1,15,917	5,03,855	..	23,685	12,168	5,03,855
Audit and Accounts ..	..	21,174	21,174	11,517	..	..	32,691
Total ..	8,40,975	3,34,988	11,75,963	11,517	68,419	56,902	11,87,480
Grand Total ..	1,31,91,665	63,68,425	1,95,60,090	14,95,707	31,03,434	16,07,727	2,10,55,797

(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).

NANDIYAR CHANNEL SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937–1938.

Vide details on page 108 of the Administrative Accounts
for 1934–1935.

NANDIYAR CHANNEL SYSTEM—Canal Project—cont.

No. 3.—Revenue Accounts for and to end of 1937–1938.

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—			
5. Receipts from plantation ..	275	6,860	(1) Head works ..	..	..	7,486
6. Receipts from other canal produce.	52	2,642	(2) Main canals and branches ..	282	..	12,353
8. Navigation receipts ..	..	..	(3) Distributaries ..	..	..	1,115
9. Rent of buildings ..	3	74	(4) Drainage and protective works.	..	..	..
10. Recoveries of expenditure ..	3	50	(5) Special tools and plant ..	..	..	..
11. Miscellaneous ..	..	2,893	Total ..	282	..	20,954
Deduct—Refunds ..	36	194				
Total Revenue realized in the Public Works Department ..	297	12,328	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in the Civil Department ..	10,354	2,56,820	(1) Head works ..	110	..	16,862
Total, Direct Receipts ..	10,651	2,63,148	(2) Main canals and branches ..	4,176	..	1,55,038
II. INDIRECT RECEIPTS—			(3) Distributaries ..	..	..	7,524
Share of land revenue collected in the Civil Department ..	243	3,224	(4) Drainage and protective works.	..	..	4,497
			(5) Special tools and plant ..	..	..	..
			Add—Unclassifiable outlay ..	..	..	..
			Total ..	4,286	..	1,83,921
			Total, Extensions and Improvements and Maintenance and Repairs ..	4,568	..	2,04,875
			IV. ESTABLISHMENT ..	1,886	..	66,414
			V. TOOLS AND PLANT ..	3	..	838
			Deduct—RECOVERIES ON REVENUE ACCOUNT ..	..	..	8
			Total, Direct Charges ..	6,457	..	2,72,119

NANDIYAR CHANNEL SYSTEM—Canal Project—cont.

No. 3.—Revenue Accounts for and to end of 1937-1938—cont.

Receipts.	TOTAL.		Charges.
	During the year.	To end of the year.	
	RS.	RS.	
Total, Public Works and Civil Departments, Revenue	10,894	2,72,372	Share of collection charges in the Civil Department
			Indirect charges
			Total, Direct and Indirect charges. * Deduct—Old maintenance charges saved to Government
			Net Total
			Balance, net revenue
Total, Receipts	10,894	2,72,372	Grand Total
			RS.
			Extensions and Improvements
			Maintenance and Repairs
			Establishment
			Tools and plant
Indirect			Total, Direct
			Total, Direct and Indirect. 4,336

* Deduct—

Extensions and Improvements
 Maintenance and Repairs
 Establishment
 Tools and plant

Indirect

NANDIYAR CHANNEL SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.	Amount.
	RS.	RS.
Total interest charges to end of 1936-1937	87,568	Net revenue realized to end of 1936-1937
* Total interest charges for the year 1937-1938	2,751	Net revenue realized during 1937-1938
		Balance, net interest charges. 9,747
Total	90,319	Total
	RS.	
* Interest at 4.35 per cent on Rs. 63,231 representing outlay to end of 1936-1937 plus half the outlay to end of 1937-1938	2,751	
Total	2,751	

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	838
Leave and pension allowances	..	1,646
Audit and accounts	..	..
Total	..	2,484
REVENUE—		
Capitalization of abatement of land revenue	..	142
Leave and pension allowances	..	3,683
Audit and accounts	46	1,428
Total	46	5,253
Grand Total	46	7,737

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							
Establishment	43,488	7,988	51,476	..	..	..	51,476
Tools and plant	10,002	1,753	11,755	..	..	..	11,755
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 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.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

CHICACOLE MINOR RIVERS SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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

CHICACOLE MINOR RIVERS SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

Particulars.	Amount. RS.	Particulars.	Amount. RS.
Total interest charges to end of 1936–1937.	3,55,561	Net revenue realized to end of 1936–1937.	11,95,717
*Total interest charges for the year 1937–1938.	12,102	Net revenue realized during 1937–1938.	4,341
Balance, net revenue ..	8,32,395		
Total ..	12,00,058	Total ..	12,00,058
*Interest at 4.35 per cent on Rs. 2,78,196 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938.			
	12,102		
Total ..	12,102		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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 ..	288	7,527
Total ..	288	53,911
Grand Total ..	288	64,941

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.
	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.							
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The construction estimate of the project was closed on 31st March 1940 and the completion report approved in G.O. No. 152 L, dated 17th May 1911.

LOWER COLEROON ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1937–1938.

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

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.LOWER COLEROON ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938

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. 123	RS. 123	I. EXTENSIONS AND IMPROVEMENTS—		
3 Sales of water	150	2,112	(1) Head works	51	1,85,582
4 Water-supply of towns	477	3,896	(2) Main canals and branches	10,236	7,89,623
5 Receipts from plantations	2,253	78,012	(3) Distributaries	85	65,737
6 Receipts from other canal produce	709	50,319	(4) Drainage and protective works	..	10,039
8 Navigation receipts	39	298	(5) Special tools and plant	..	1,800
9 Rents of buildings	571	8,904	Add—Unclassifiable outlay	..	24,873
11 Miscellaneous	450	29,502	Total	10,372	10,74,054
Recoveries of expenditure	132	1,738			
Deduct—Refunds	..	2,393	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in Public Works Department	4,781	1,72,511	(1) Head works	12,144	2,70,332
Irrigation revenue realized in Civil Department	2,63,283	2,04,39,162	(2) Main canals and branches	88,070	24,07,090
Total, Direct Receipts	2,68,064	2,06,11,673	(3) Distributaries	3,797	3,76,633
			(4) Drainage and protective works	1,926	48,032
II. INDIRECT RECEIPTS—			(5) Special tools and plant	..	4,82,053
Share of land revenue collected in the Civil Department	51,515	43,51,368	Add—Unclassifiable outlay	..	..
Total, Public Works and Civil Departments, Revenue	3,19,579	2,49,63,041	Total	1,05,937	35,84,140
			Total, Extensions and Improvements and Maintenance and Repairs	1,16,309	46,58,194
			IV. ESTABLISHMENT	62,470	15,32,709
			V. TOOLS AND PLANT	279	19,109
			VI. REFUNDS OF REVENUE	..	423
			Deduct—Recoveries on revenue account	..	3,094
			Total, Direct Charges	1,79,058	62,07,341

LOWER COLEROON ANICUT SYSTEM—*Canal Project*—cont.
No. 3.—Revenue Account for and to end of 1937-1938—cont.

Receipts.	TOTAL.		Charges.	Share of collection charges in the Civil Department	Indirect charges	Total, Direct and Indirect charges	* Deduct—Old maintenance charges saved to Government	Balance, net revenue	Total, Receipts	TOTAL.		During the year. RS.	To end of the year. RS.
	During the year. RS.	To end of the year. RS.								During the year. RS.	To end of the year. RS.		
Extensions and improvements	..	2,427	..	..	..	..	..	..	3,19,579	2,49,63,041	..	15,740	12,39,527
Maintenance and repairs	..	4,853	..	..	..	..	..	..	..	..	..	1,486	1,67,826
Establishment	..	3,351	..	..	..	..	..	..	..	..	..	1,96,284	76,14,694
Tools and plant	..	17	..	..	..	..	..	..	..	..	..	10,721	2,54,699
Total, Direct	..	10,648	..	..	..	..	..	..	..	..	..	1,85,563	73,59,995
Indirect	..	..	..	..	..	..	..	..	..	..	..	1,34,016	1,76,03,046
Total, Direct and Indirect	..	..	..	..	..	..	..	..	..	..	..	3,19,579	2,49,63,041
• Direct—	..	..	..	..	..	..	..	..	..	..	..	..	..
Extensions and improvements	..	2,427	..	..	..	..	..	..	..	..	..	..	..
Maintenance and repairs	..	4,853	..	..	..	..	..	..	..	..	..	..	..
Establishment	..	3,351	..	..	..	..	..	..	..	..	..	..	..
Tools and plant	..	17	..	..	..	..	..	..	..	..	..	..	..
Total, Direct	..	10,648	..	..	..	..	..	..	..	..	..	..	..
Indirect	..	..	..	..	..	..	..	..	..	..	..	..	..
Total, Direct and Indirect	..	..	..	..	..	..	..	..	..	..	..	..	..

LOWER COLEROON ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937	36,37,016	Net revenue realized to end of 1936-1937	1,74,69,030
* Total interest charges for the year 1937-1938	1,26,734	Net revenue realized during 1937-1938	1,34,016
Balance, net revenue	1,38,39,296		
Total	1,76,03,046	Total	1,76,03,046
* Interest at 4.35 per cent on Rs. 29,13,423 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938	1,26,734		
Total	1,26,734		

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year. RS.	To end of the year. 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	323	18,110
Leave and pension allowances	..	1,22,721
Audit and accounts	1,163	26,995
Total	1,486	1,67,826
Grand Total	1,486	2,56,072

LOWER COLEROON ANICUT SYSTEM—Canal Project—cont.

No. 6.—Statement comprising 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.					
Direct Charges.								
Works	10,67,518	13,89,734	24,57,252	..	..	..	24,57,252	
Establishment	2,32,629	2,09,937	4,42,566	..	..	..	4,42,566	
Tools and plant	14,059	2,721	16,780	..	..	..	16,780	
Suspense account	..	..	..	..	..	..	..	
Total	13,14,206	16,02,392	29,16,598	..	..	..	29,16,598	
Less—Receipts on Capital Account.								
.. .. .	..	3,175	3,175	..	..	..	3,175	
Net Total	13,14,206	15,99,217	29,13,423	..	..	..	29,13,423	
Indirect Charges.								
Capitalized abatement of land revenue	10,946	22,295	33,241	..	..	..	33,241	
Leave and pension allowances	32,568	13,349	45,917	..	..	..	45,917	
Audit and accounts	..	9,088	9,088	..	..	..	9,088	
Total	43,514	44,732	88,246	..	..	..	88,246	
Grand Total	13,57,720	16,43,949	30,01,669	..	..	..	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 I., dated 24th September 1909.

KISTNA EAST BANK CANAL EXTENSION SCHEME—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

Heads of account.	DIRECT CHARGES.			Cost of constructions as now estimated.
	During the year.	To end of the year.		
	RS.	RS.	RS.	RS.
I. Works—				
(1) Headworks ..	1,646	6,74,751	..	6,73,105
(2) Main canals and branches	33,637	2,63,012	+ 14,23,623	18,72,095
(3) Distributaries ..	90,148	2,62,509	+ 6,88,516	10,08,961
(4) Drainage and protective works	3,903	1,04,461	+ 1,39,941	2,95,558
(5) Water courses ..	71,968	71,968	+ 1,29,131	1,75,000
(6) Special tools and plant	..	3,41,033	..	3,41,033
Total Works ..	2,01,302	17,17,734	+ 23,81,211	43,65,752
II. Establishment	44,217	4,42,313	+ 3,14,160	6,44,771
III. Tools and plant	415	6,77,882	+ 10,612	7,34,453
V. Less receipts on capital account	11,876	14,605	+ 4,883	19,488
Net outlay in India and England	2,34,058	28,23,324	+ 27,01,100	57,25,488

Note.—The plus entries appearing in the column "To end of the year" in respect of accounts 2, 3, 4 and 5 of this system represent the figures relating to the Kistna East Bank Canal Scheme transferred to the Divl. Pumping System (now called "The Kistna East Bank Canal Extension Scheme") with reference to the orders of Government in G.O. Ms. No. 1485, P.W.D., dated 14th August 1937, and Memorandum No. 2928 D/37-3, dated 22nd October 1937—vide also foot-note on page 99.

KISTNA EAST BANK CANAL EXTENSION SCHEME—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937-1938.

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

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) Headworks	4	52,048
4. Water-supply of towns	..	..	(2) Main canals and branches	2,744	10,189
5. Receipts from plantations	..	..	(3) Distributaries	65	19,552
6. Receipts from other canal produce	1,833	35,346	(4) Drainage and protective works.	..	7,142
8. Navigation receipts	516	377	(5) Special tools and plant	..	689
9. Rents of buildings	467	29,325	Total	2,813	89,620
10. Fines	..	20,801	II. MAINTENANCE AND REPAIRS—		
11. Miscellaneous	38	3	(1) Headworks	6,193	18,56,261
Recoveries of expenditure	..	3,734	(2) Main canals and branches	17,504	2,78,669
<i>Deduct—Refunds</i>	334	546	(3) Distributaries	12,148	4,240
		1,096	(4) Drainage and protective works.	4,315	4,178
		16	(5) Special tools and plant	..	33,008
			<i>Add—Unclassifiable outlay</i>	..	1,157
Total, revenue realized in Public Works Department	2,538	89,502	Total	40,160	23,06,071
Irrigation Revenue realized in Civil Department	2,56,254	1,064			9,575
		45,80,893	Total, Extensions and Improvements and Maintenance and Repairs	42,973	23,95,691
Total, Direct Receipts	2,58,792	46,70,395	IV. ESTABLISHMENT	18,339	9,89,755
		1,064	V. TOOLS AND PLANT	248	5,032
					70,522
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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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MADRAS PRESIDENCY.

II. INDIRECT RECEIPTS—			VI. REFUNDS OF REVENUE	15	
Share of land Revenue collected in the Civil Department	87,205	14,86,226	<i>Deduct—Recoveries on account</i>	176	
			Total, Direct charges	61,560	34,55,807
					14,629
Total, Public Works and Civil Department, Revenue	3,45,997	61,56,621	Share of collection charges in the Civil Department	13,680	2,43,147
		1,064	Indirect charges	430	94,820
					96
			Total, Direct and Indirect charges	75,670	37,93,774
			<i>* Deduct—Old maintenance charges saved to Government</i>	16,344	4,41,884
			Balance, net revenue	59,326	33,51,890
			Net total	2,86,671	14,725
					28,04,731
			Grand Total	3,45,997	13,661
					61,56,621
					1,064
* Direct—					
Extensions and improvements	..	..			49
Maintenance and repairs	..	..			12,131
Establishment	..	..			3,972
Tools and plant	..	..			70
			Total, Direct		16,222
			Indirect		122
			Total, Direct and Indirect		16,344

Vide foot-note on page 227.

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

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
Total interest charges to end of 1936-1937 ..	Rs. 23,86,881	Net revenue realized to end of 1936-1937 ..	Rs. 25,18,060
* Total interest charges for the year 1937-1938 ..	2,35,222	Net revenue realized during 1937-1938 ..	2,86,871
		Balance—Net interest charges.	49,051
Total ..	28,40,121	Total ..	28,40,121

* Interest at 4·35 per cent on Rs. 54,07,396 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938 .. 2,35,222

Total .. 2,35,222

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year.	To end of the year.	
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	3,058	7,653	+ 14,541
Leave and pension allowances ..	2,013	52,699	..
Audit and accounts ..	..	6,357	+ 23,812
Total ..	5,071	66,709	+ 38,353
REVENUE—			
Capitalization of abatement of land revenue ..	..	388	..
Leave and pension allowances ..	..	77,881	..
Audit and accounts ..	430	16,551	+ 96
Total ..	430	94,820	+ 96
Grand Total ..	5,501	1,61,529	+ 38,449

Vide foot-note on page 227.

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.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	RS.	RS.
Direct Charges.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Works ..	9,86,285	5,30,147	15,16,432	25,82,513	28,49,320	2,66,807	40,98,945	40,98,945
Establishment ..	1,87,250	2,10,846	3,98,096	3,58,377	2,46,675	—	7,56,473	7,56,473
Tools and plant ..	6,71,389	6,078	6,77,467	11,027	56,986	45,959	6,88,494	6,88,494
Suspense account ..	..	..	..	..	..	..	..	..
Total ..	18,44,924	7,47,071	25,91,995	29,51,917	31,52,981	2,01,064	55,43,912	55,43,912
Less—Receipts on Capital Account.	377	19,111	19,488	..	..	..	19,488	19,488
Net Total ..	18,44,547	7,27,960	25,72,507	29,51,917	31,52,981	2,01,064	55,24,424	55,24,424
Indirect Charges.								
Capitalized abatement of land revenue ..	379	21,815	22,194	..	..	..	22,194	22,194
Leave and pension allowances ..	26,215	26,484	52,699	..	..	..	52,699	52,699
Audit and accounts ..	..	4,344	4,344	25,825	28,493	2,668	30,169	30,169
Total ..	26,594	52,643	79,237	25,825	28,493	2,668	1,05,062	1,05,062
Grand Total ..	18,71,141	7,80,603	26,51,744	29,77,742	31,81,474	2,03,732	56,29,486	56,29,486

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

TOLUDUR RESERVOIR SYSTEM.

No. 2.—Capital account for and to end of 1937-1938.

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 ..	..	1,71,821	1,99,949
(3) Distributaries	..	1,02,401	1,02,401
(6) Special tools and plant ..	..	61,411	61,411
Total Works	3,873	15,89,606	16,17,734
II. Establishment	..	4,71,215	4,77,218
III. Tools and plant	1,783	3,05,951	3,06,690
V. Less receipts on capital account ..	9	9,815	9,815
Net outlay in India and England ..	5,665	23,56,957	23,91,827

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

TOLUDUR RESERVOIR SYSTEM—cont.

No. 3.—Revenue account for and to end of 1937-1938.

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 ..	..	1,047	(1) Head works	..	12,970
6. Receipts from other canal produce.	..	2,677	(2) Main canals and branches ..	..	8,929
9. Rents of buildings	..	1,324	(3) Distributaries	..	8,042
II. Miscellaneous	..	383	(4) Drainage and protective works.	..	99
Recoveries of expenditure	..	225	(5) Special tools and plant ..	..	..
Deduct—Refunds	..	97	Total	586	30,040
Total, Revenue realized in Public Works department	243	5,559	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil department	87,246	13,33,057	(1) Head works	..	5,467
Total, Direct Receipts	87,489	13,38,616	(2) Main canals and branches ..	..	21,737
II. INDIRECT RECEIPTS—			(3) Distributaries	..	6,128
Share of Land Revenue collected in the Civil department	..	3,584	(4) Drainage and protective works.	..	201
Total, Public Works and Civil departments Revenue	87,937	13,42,200	(5) Special tools and plant ..	..	..
	..	..	Add—Unclassified outlay ..	..	..
Total, Receipts	87,937	13,42,200	Total	33,533	3,55,382
			Total, Extensions and Improvements and Maintenance and Repairs	34,119	3,85,422
			IV. ESTABLISHMENT	17,452	1,48,247
			V. TOOLS AND PLANT	82	1,622
			VI. REFUNDS OF REVENUE	..	..
			Deduct—Recoveries on revenue account ..	..	240
			Total, Direct Charges	51,653	5,35,051
			Share of collection charges in the Civil department	4,385	66,833
			Indirect Charges	898	5,333
			Total, Direct and Indirect Charges ..	56,936	6,07,217
			Balance net revenue	31,001	7,34,983
			Grand Total	87,937	13,42,200

TOLUDUR RESERVOIR SYSTEM—*cont.*

No. 4.—Interest Accounts for and to end of 1937–1938.

Amount.	Amount.
RS.	RS.
Total interest charges to end of 1936–37 ..	19,55,051
Total interest charges for the year 1937–38—	
Interest at 4.35 per cent on Rs. 23,54,125 representing outlay to end of 1936–37 plus half the outlay during 1937–38 1,02,404.	1,02,404
Total ..	20,57,455
Net revenue realized to end of 1936–37 ..	7,03,982
Net revenue realized during 1937–38 ..	31,001
Balance, net interest charges.	13,22,472
Total ..	20,57,455

No. 5.—Account Indirect Charges for and end of 1937–38.

Particulars.	During the year.	To end of the year.
RS.	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	1,80,719
Leave and pension allowances	..	66,102
Audit and accounts	39	4,397
Total ..	39	251,218
REVENUE—		
Capitalization of abatement of land revenue ..	557	592
Leave and pension allowances	..	886
Audit and accounts	341	3,855
Total ..	898	5,333
Grand Total ..	937	2,56,551

TOLUDUR RESERVOIR SYSTEM—*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.
Direct Charges.								
Works ..	16,12,421	—	16,12,421	10,044	38,172	28,128	15,89,606	
Establishment ..	4,74,048	—	4,74,048	4,307	10,310	6,003	4,71,215	
Tools and plant ..	3,06,052	—	3,06,052	24	763	739	3,05,951	
Suspense account ..	..	..	..	..	..	..	..	
Total ..	23,92,521	40,124	23,52,397	14,375	49,245	34,870	23,66,772	
Less—Receipts on Capital Account.	8,322	1,493	9,815	..	..	..	9,815	
Net Total ..	23,84,199	41,617	23,42,582	14,375	49,245	34,870	23,56,957	
Indirect Charges.								
Capitalized abatement of land revenue ..	1,80,460	259	1,80,719	..	2,348	2,348	1,80,719	
Leave and pension allowances ..	66,102	..	66,102	..	..	..	66,102	
Audit and accounts ..	4,566	270	4,296	101	382	281	4,397	
Total ..	2,51,128	11	2,51,117	101	2,730	2,629	2,51,218	
Grand Total ..	26,35,327	41,628	25,93,699	14,476	51,975	37,499	26,08,175	

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.

PUBLIC WORKS DEPARTMENT.

POLAVARAM ISLAND—Project.

No. 2.—Capital Account for and to end of 1937-1938.

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.	2,052	1,11,168	1,18,991
Total, Works ..	2,052	12,88,843	12,96,666
II. Establishment ..	727	3,68,521	3,68,735
III. Tools and plant ..	19	14,332	15,121
Grand Total ..	2,798	16,71,696	16,80,522
V. Less—Receipts on Capital Account ..	..	4,099	4,099
Net outlay in India and England ..	2,798	16,67,597	16,76,423

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

No. 3.—Revenue Account for and to end of 1937-1938.

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 ..	708	2,678	(1) Head works ..	..	..
6. Receipts from other canal produce.	84	1,207	(2) Main canals and branches ..	..	15
8. Navigation receipts ..	..	4	(3) Distributaries ..	2,565	9,312
9. Rents of buildings ..	13	138	(4) Drainage and protective works ..	152	263
10. Recoveries of expenditure ..	..	141	(5) Special tools and plant ..	..	..
11. Miscellaneous ..	..	37	Total ..	2,717	9,590
Deduct—Refunds ..	..	137	II. MAINTENANCE AND REPAIRS—		
Total Revenue realized in Public Works Department ..	805	4,068	(1) Head works ..	..	..
Irrigation Revenue realized in Civil Department ..	95,497	9,60,574	(2) Main canals and branches ..	42	1,264
Total, Direct Receipts ..	96,302	9,64,642	(3) Distributaries ..	8,723	50,746
II. INDIRECT RECEIPTS—			(4) Drainage and protective works ..	848	1,375
Share of land revenue collected in the Civil Department ..	..	..	(5) Special tools and plant ..	..	..
Total, Public Works and Civil Departments, Revenue ..	96,302	9,64,642	Add—Unclassifiable outlay ..	..	..
Total, Receipts ..	96,302	9,64,642	Total ..	9,613	53,385
			Total, Extensions and Improvements and Maintenance and Repairs ..	12,330	62,975
			IV. ESTABLISHMENT ..	5,954	30,339
			V. TOOLS AND PLANT ..	113	606
			VI. REFUNDS OF REVENUE ..	..	..
			Total, Direct Charges ..	18,397	93,920
			Share of collection charges in the Civil Department ..	4,775	48,027
			Indirect Charges ..	123	639
			Total, Direct and Indirect Charges ..	23,295	1,42,586
			Balance, net revenue ..	73,007	8,22,056
			Grand Total ..	96,302	9,64,642

POLAVARAM ISLAND—Project—cont.

POLAVARAM ISLAND—Project—cont.

No. 4.—Interest for and to end of 1937–1938.

	Amount.		Amount.
	rs.		rs.
Total interest charges to end of 1936-37	7,76,173	Net revenue realized to end of 1936-37	7,49,049
Total interest charges for the year 1937-38—		Net revenue realized during 1937-38	73,007
rs.		Balance, net interest charges	26,596
Interest at 4.35 per cent on Rs. 16,66,198 representing outlay to end of 1936-37 plus half the outlay during 1937-38. ..	72,479		
Total ..	8,48,652	Total ..	8,48,652

No. 5.—Accounts of Indirect Charges for and to end of 1937–38.

Particulars.	During the year. rs.	To end of the year. rs.
CAPITAL—		
Capitalization of abatement of land revenue	..	10,080
Leave and pension allowances	..	4,423
Audit and accounts	20	12,886
Total ..	20	27,389
REVENUE—		
Capitalization of abatement of land revenue	..	10
Leave and pension allowances	..	629
Audit and accounts	123	639
Total ..	123	639
Grand Total ..	143	28,028

POLAVARAM ISLAND—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	12,33,116	..	12,33,116	55,727	63,550	7,823	12,88,843
Establishment	3,51,544	..	3,51,544	16,977	17,191	214	3,68,521
Tools and plant	13,850	..	13,850	482	1,271	789	14,332
Suspense account	..	..	..	..	..	..	..
Total ..	15,98,510	..	15,98,510	73,186	82,012	8,826	16,71,696
Less—Receipt on Capital Account.	4,099	..	4,099	..	..	..	4,099
Net Total ..	15,94,411	..	15,94,411	73,186	82,012	8,826	16,67,597
Indirect Charges.							
Capitalized abatement of land revenue	10,080	..	10,080	..	..	..	10,080
Leave and pension allowances	4,423	..	4,423	..	..	..	4,423
Audit and accounts	12,330	..	12,330	556	636	80	12,886
Total ..	26,833	..	26,833	556	636	80	27,389
Grand Total ..	16,21,244	..	16,21,244	73,742	82,648	8,906	16,94,986

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 1937–1938.

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	86,830	2,69,42,551	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 ..	86,830	3,57,27,369	3,71,90,000
(2) <i>Main Canals and Branches—</i>			
(a) Grand Anicut Canal system—			
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	7,754	24,73,944	23,60,000
G. Bridges	1,591	8,03,085	8,25,000
H. Escapes	..	29,189	25,000
K. Buildings	5,648	2,55,950	2,22,000
L. Earthwork	..	32,49,173	33,20,000
M. Plantations	..	17,625	25,000
O. Miscellaneous	4,305	1,01,263	85,000
P. Maintenance	..	1,02,132	1,20,000
Total ..	19,298	87,45,739	87,71,000
(b) Vadavar system—			
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	..	42,200	40,000
H. Escapes	..	24,349	24,350
K. Buildings	800	20,549	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 ..	800	5,49,224	5,44,000
Total, (2) Main Canals and Branches.	20,098	92,94,963	93,15,000

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project—cont.*No. 2.—Capital Account for and to end of 1937–1938—*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) Grand Anicut Canal system—			
A. Preliminary expenses ..	..	1,30,714	1,32,000
B. Land	6,400	26,92,958	28,75,000
C. Works	1,393	14,11,927	11,25,000
L. Earthwork	1,730	8,63,241	8,90,000
M. Plantations	..	11,346	18,000
O. Miscellaneous	..	72,335	80,000
P. Maintenance	..	40,194	40,000
Total ..	9,523	52,22,715	51,60,000
(b) Vadavar system—			
A. Preliminary expenses ..	..	22,604	22,800
B. Land	..	4,58,943	4,57,200
C. Works	..	2,06,087	2,09,000
L. Earthwork	..	2,47,414	2,48,000
M. Plantations	..	2,773	2,800
O. Miscellaneous	..	13,901	16,000
P. Maintenance	..	17,839	24,000
Total ..	..	9,69,561	9,79,800
Total, (3) Distributaries ..	9,523	61,92,276	61,39,800
(6) <i>Special Tools and Plant</i> ..	80,923	88,45,721	87,00,000
<i>Loss on stock</i> ..	41,509	2,52,134	10,200
Total, Works ..	77,037	6,03,12,463	6,13,55,000
II. ESTABLISHMENT (a)—			
Non-voted—(Charges)—			
Pay of officers	674	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	9,295	10,57,875	..
Pay of establishment	15,524	21,83,508	..
Travelling allowance	..	..	..
Fixed travelling allowance ..	..	3,49,989	..
Other compensatory allowance.	..	..	..
Contract contingencies	..	85	..
Supplies and services	..	2,093	..

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1937–1938—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 ..	307	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 ..	25,800	54,88,192	..
English cost of establishment—			
Par value (Voted and Non-voted)	9,305	3,32,962	..
Loss or gain by exchange ..	48	8,585	..
Deduct—Recoveries (Voted) ..	..	2,53,540	..
Add—Amount debited by transferred establishment (Establishment inclusive of pensionary charges)	24,906	48,819	..
Add—Pensionary charges ..	2,357	5,62,083	..
Net total, Establishment (a) ..	62,320	61,87,101	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	201	384	..
Net Total, Tools and Plant ..	201	2,97,283	3,00,000
IV. SUSPENSE	42,865	1,03,851	90,000
Grand Total ..	96,693	6,69,00,698	6,76,20,000
V. Less—RECEIPTS ON CAPITAL ACCOUNT			
	1,79,068	21,28,810	8,50,000
Net outlay in India and England ..	82,375	6,47,71,888	6,67,70,000

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

Receipts.	TOTAL.		Charges.	TOTAL.
	During the year.	To end of the year.		
I. DIRECT RECEIPTS—				
3. Sales of water	RS. 150	RS. 282	I. EXTENSIONS AND IMPROVEMENTS—	RS. 7,508
5. Receipts from plantations	2,401	8,689	(1) Head works	5,295
6. Receipts from other canal produce.	37	689	(2) Main canals and branches	11,488
8. Navigation	12	84	(3) Distributaries	11,353
9. Rents of buildings	20,779	69,127	Total	28,136
10. Fines	4	29	II. MAINTENANCE AND REPAIRS—	
11. Miscellaneous	4,140	27,218	(1) Head works	62,713
Recoveries of expenditure	293	5,112	(2) Main canals and branches	1,02,448
Deduct—Refunds	590	1,682	(3) Distributaries	39,173
			(4) Drainage and protection works.	410
Total, Revenue realized in Public Works Department	27,226	1,09,548	Total	2,04,744
III. COMPENSATION—				
Irrigation revenue realized in Civil Department	11,51,379	44,52,423	Total, Extensions and Improvements and Maintenance and repairs	2,32,880
Total, Direct Receipts	11,78,605	45,61,971	IV. ESTABLISHMENT	1,05,220
Total, Direct Receipts	11,78,605	45,61,971	V. TOOLS AND PLANT	582
II. INDIRECT RECEIPTS—				
Share of land revenue collected in the Civil Department	..	..	Total, Direct Charges	3,38,682
Total, Public Works and Civil Departments, Revenue	11,78,605	45,61,971	Share of collection charges in the Civil Department	57,569
			Indirect charges	2,329
			Total, Direct and Indirect charges. Balance, net revenue	3,98,580
			Total	7,80,025
				11,78,605

Note.—The maintenance charges pertaining to old irrigation have not yet been fixed by Government.

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PUBLIC WORKS DEPARTMENT.

CAUVERY-METTUR RESERVOIR PROJECT—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937 ..	2,42,39,010	Net revenue realized to end of 1936–1937 ..	21,32,822
*Total interest charges for the year 1937–1938 ..	28,19,369	Net revenue realized during 1937–1938 ..	7,80,025
		Balance, net interest charges ..	2,41,45,532
 *Interest at 4.35 percent on Rs. 6,48,13,075 representing outlay to end of 1936–1937 + half the outlay during 1937–1938 = 28,19,369			
Total ..	2,70,58,379		2,70,58,379

No. 5.—Account of indirect Charges for and to end of 1937–38.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	..	4,48,495
Leave and pension allowance ..	..	23,617
Audit and accounts ..	770	5,74,225
Total ..	770	10,46,337
REVENUE—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances ..	..	..
Audit and accounts ..	2,329	10,005
Total ..	2,329	10,005
Grand Total ..	3,099	10,56,342

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ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1937–1938.

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 SECTIONS.			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>							
Works ..	..	..	..	6,03,12,463	6,13,55,000	10,42,537	..
Establishment ..	..	..	..	61,87,101	58,75,000	-3,12,101	..
Tools and plant ..	..	..	..	2,97,283	3,00,000	2,717	..
Suspense account ..	..	..	..	1,03,851	90,000	-13,851	..
Total ..	..	..	..	6,69,00,698	6,76,20,000	7,19,302	..
Less—Receipts on Capital Account.	..	..	..	21,28,810	8,50,000	-12,78,810	..
Total outlay in India and England ..	..	..	..	6,47,71,888	6,67,70,000	19,98,112	..
<i>Indirect Charges.</i>							
Capitalization of abatement of land revenue ..	..	..	..	4,48,495	4,89,000	40,505	..
Leave and pension allowances ..	..	..	..	23,617	25,000	1,383	..
Audit and accounts ..	..	..	..	5,74,225	6,16,000	41,775	..
Total ..	..	..	..	10,46,337	11,30,000	83,663	..
Grand total outlay in India and England ..	..	..	..	6,58,18,225	6,79,00,000	20,81,775	..

KATTALAI ANICUT SCHEME—*Canal Project.*

No. 2.—Capital Account for and to end of 1937-1938.

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—			
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) Main Canals and Branches—			
A. Preliminary expenses	..	11,933	20,004
B. Land	..	1,442	4,78,630
C. Works	..	595	52,240
D. Regulators	..	4	92,541
E. Falls and weirs	..	..	22,849
F. Cross drainage	..	82	3,28,623
F. (1) Other cross and drainage works	..	..	3,27,890
G. Bridges	..	..	3,317
H. Escapes	..	1,121	2,72,749
K. Buildings	..	..	40,913
L. Earthwork	..	..	28,865
M. Plantations	..	186	11,50,959
N. Tanks	..	..	..
O. Miscellaneous	..	..	11,000
P. Maintenance	..	1,807	26,943
Unforeseen works	..	..	43,740
Total, Main Canals	..	5,237	25,54,302
(3) Distributaries—			
B. Land	..	5,649	87,135
C. Works	..	467	11,896
E. Falls and weirs	..	296	11,116
L. Earthwork	..	1,192	39,778
O. Miscellaneous	..	2,653	12,522
Total	..	10,257	1,62,447
(6) Special Tools and Plant			
Loss on stock	..	154	36,524
Total, Works	..	15,340	33,78,316
II. ESTABLISHMENT—			
Non-voted (Charged)—			
Pay of officers	..	..	45,325
Passage pay	..	..	476
Travelling allowance	..	..	6,945

KATTALAI ANICUT SCHEME—*Canal Project—cont.*No. 2.—Capital Account for and to end of 1937-1938—*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	570	1,14,462	..
Travelling allowance	..	..	..
Fixed travelling allowance	..	..	..
Other compensatory allowance	..	33,722	..
Non-contract, contingencies—			
Miscellaneous	..	..	..
Total, Establishment	570	2,58,673	5,41,285
English cost of establishment—			
Par value	..	18,678	..
Loss or gain by exchange	..	1,262	..
Add—Pensionary charges on special establishment	71	21,700	..
Add—Supervision charges on special establishment	..	14,984	..
Add—Amount debited by Transferred establishment (inclusive of pensionary charges)	5,236	1,36,873	..
Grand total, Establishment	5,877	4,52,170	5,41,285
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	56,840
Add—Amount debited by Transferred	11	529	..
Net total, Tools and Plant	11	52,590	56,840
IV. SUSPENSE	..	1	..
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	161	10,531	..
Net outlay in India and England	21,067	38,72,546	43,63,440

PUBLIC WORKS DEPARTMENT.

KATTALAI ANICUT SCHEME—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937-1938.

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.
Sales of water	37	319	I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations	2,444	22,106	(1) Head works	..	—675
6. Receipts from other canal produce.	781	5,411	(2) Main canals and branches	9,542	69,770
8. Navigation receipts	62	326	(3) Distributaries	..	1,523
9. Rents of Buildings	136	1,275	(4) Drainage and protective works	893	1,098
10. Fines	..	..	(5) Special tools and plant	..	..
11. Miscellaneous	4	126	Total	10,435	71,716
Recoveries of expenditure	117	1,074			
Deduct—Refunds	56	824	II. MAINTENANCE AND REPAIRS—		
Total revenue realized in the Public Works Department	3,525	29,813	(1) Head works	1	29,673
Irrigation revenue realized in Civil Department	83,953	4,71,203	(2) Main canals and branches	67,107	5,79,481
			(3) Distributaries	—3	3,221
			(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	..
			Add—Unclassifiable outlay	..	..
Total, Direct Receipts	87,478	5,01,016	Total	67,105	6,12,375

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

I. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	121	785	Total, Extensions and Improvements and Maintenance and Repairs	77,540	6,84,091
Total, Public Works and Civil Departments Revenue	87,599	5,01,751	IV. ESTABLISHMENT	28,324	2,56,702
Net deficit, if any	— 42,278	3,971	V. TOOLS AND PLANT	55	1,392
			VI. REFUNDS OF REVENUE	..	..
			Total, Direct Charges	1,05,919	9,42,185
			Share of collection charges in the Civil Department	4,199	23,568
			Indirect charges	775	6,843
			Total, Direct and Indirect Charges	1,10,893	9,72,596
			Deduct—Old maintenance charges saved to Government *	65,372	4,66,874
Grand Total	45,321	5,05,722	Net Total	45,321	5,05,722
* DIRECT—					
Maintenance and repairs	..	..	RS.		
Establishment	..	..	48,500		
Tools and plant	..	..	16,553		
			34		
INDIRECT	..	..	Total, Direct	65,087	
			Total	485	
			Total	65,572	

KATTALAI ANICUT SCHEME—*Canal Project*—cont.

No. 4—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937 ..	11,19,538	Net revenue realized to end of 1936–1937 ..	— 46,240
* Total interest charges for the year 1937–1938.	1,67,999	Net revenue realized during 1937–1938.	42,278
		Balance, net interest charges.	12,91,508
Total ..	12,87,537	Total ..	12,87,537
• Interest at 4.35 per cent on Rs. 38,62,013 representing outlay to end of 1936–1937 plus half of the outlay during 1937–1938 ..			
	1,67,999		

No. 5.—Account of indirect charges for and end of 1937–38.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of and revenue	3,511	54,854
Leave and pension allowances	..	7,233
Audit and accounts	154	33,786
Total ..	3,665	95,873
Capitalization of abatement of land revenue	..	1
Leave and pension allowances	..	..
Audit and accounts	775	6,842
Total ..	775	6,843
Grand total ..	4,440	1,02,716

KATTALAI ANICUT 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.
	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 ..	..	..	..	33,78,316	37,65,324	3,87,008	..
Establishment ..	..	..	..	4,52,170	5,41,285	89,115	..
Tools and plant ..	..	..	..	52,590	56,840	4,250	..
Suspense account ..	..	..	..	1	..	— 1	..
Total ..	..	..	..	38,83,077	43,63,449	4,80,372	..
Less—Receipt on capital account ..	..	..	..	10,531	..	— 10,531	..
Net total outlay in India and Eng-land ..	..	..	..	38,72,546	43,63,449	4,90,903	..
<i>Indirect charges.</i>							
Capitalized abatement of land revenue	..	..	..	54,854	46,097	— 8,757	..
Leave and pension allowance ..	..	..	..	7,233	7,233	..	..
Audit and accounts ..	..	..	..	33,786	37,653	3,867	..
Total ..	..	..	..	95,873	90,983	— 4,890	..
Grand total outlay in India and Eng-land.	..	..	..	39,68,419	44,54,432	4,86,013	..

PUBLIC WORKS DEPARTMENT.

KURNOOL-CUDDAPAH CANAL—Canal Project.

No. 2.—Capital Account for and to end of 1937–1938.

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

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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 from irrigation ..	..	35,98,514	(1) Head works ..	..	1,55,670
3. Sale of water ..	..	1,280	(2) Main canals and branches ..	..	4,36,627
4. Water-supply of towns ..	..	..	(3) Distributaries ..	..	80,406
5. Receipts from plantations ..	..	77,644	(4) Drainage and protective works ..	..	13,251
6. Receipts from other canal produce ..	..	3,518	(5) Special tools and plant ..	..	168
8. Navigation receipts ..	..	72	<i>Add</i> —Unclassifiable outlay ..	..	565
9. Rents of buildings ..	..	1,515			
10. Fines ..	..	..	Total ..	3,305	6,86,351
11. Miscellaneous ..	..	379			
Recoveries of expenditure ..	..	2	II. MAINTENANCE AND REPAIRS—		
<i>Deduct</i> —Refunds ..	..	12	(1) Head works ..	..	3,670
			(2) Main canals and branches ..	..	57,360
			(3) Distributaries ..	..	8,965
			(4) Drainage and protective works ..	..	20,108
			(5) Special tools and plant ..	..	5,891
			<i>Add</i> —Unclassifiable outlay ..	..	11,150
			Total ..	69,995	46,68,996
Total revenue realized in Public Works Department.	6,754	42,27,893	Total, Extensions and Improvements and Maintenance and Repairs ..	73,300	53,55,347
Irrigation revenue realized in Civil Department.	2,91,782	85,34,451	IV. ESTABLISHMENT ..	46,478	20,30,550
			V. TOOLS AND PLANT ..	169	1,16,023
			VI. REFUNDS OF REVENUE ..	..	14,592
			<i>Deduct</i> —Recoveries on Revenue Account.	..	196
Total, Direct Receipts ..	2,98,536	12,762,344	Total, Direct Charges.	1,19,947	75,16,316

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

KURNOOL-CUDDAPAH CANAL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938—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	2,992	61,348	Share of collection charges in the Civil Department		14,718	4,39,444
			Indirect charges		733	2,53,013
			Total, Direct and Indirect Charges ..		1,35,398	82,08,773
			Deduct—Old maintenance charges saved to Government *		4,528	93,718
			Balance, net revenue		1,30,870	81,15,055
Total, Public Works and Civil Departments, Revenue	3,01,528	128,23,692	Net Total		1,70,658	47,08,637
Total, Receipts	3,01,528	1,28,23,692	Grand Total		3,01,528	1,28,23,692
* Direct—						
Extensions and improvements				232		
Maintenance and repairs				2,737		
Establishment				1,502		
Tools and plant				7		
Indirect			Total, Direct	4,498		
			Total, Direct and Indirect	30		
				4,528		

KURNOOL-CUDDAPAH CANAL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

Amount.		Amount.	
RS.		RS.	
Total interest charges to end of 1936-1937	4,46,89,952	Net revenue realized to to end of 1936-1937	45,37,970
Total interest charges for the year 1937-1938—		Net revenue realized during 1937-1938	1,70,65
Interest at 4.35 per cent on Rs. 2,33,13,676 outlay to representing end of 1936-1937 plus half the outlay during 1937-1938	10,14,140	Balance, net interest charges	4,09,95,456
Total	4,57,04,092	Total	4,57,04,092

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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	733	17,005
Total	733	2,53,013
Grand total	733	3,26,451

KURNOOL-CUDDAPPAH 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.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
<i>Direct charges.</i>							
Works							
Establishment	..	1,77,82,139	13,10,953	1,90,93,092	..	..	1,90,93,092
Tools and plant	..	..	3,80,864	3,80,864	..	..	3,80,864
Suspense account	..	..	3,085	3,085	..	..	3,085
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	20,168	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.

BARUR TANK—Tank Project.

No. 2.—Capital Account for and to end of 1937-1938.

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	3,239	52,670	52,073
(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	3,239	3,42,762	3,42,165
II. ESTABLISHMENT	758	78,501	78,440
III. TOOLS AND PLANT	9	6,961	7,059
Grand total	4,006	4,28,224	4,27,664
V. Less receipts on capital account	..	22	22
Net outlay in India and England	4,006	4,28,202	4,27,642

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

BARUR TANK—Tank Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

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—					
5. Receipts from plantations	136	7,828	I. EXTENSIONS AND IMPROVEMENTS—		
6. Receipts from other canal produce.	1,339	24,672	(1) Head works	7	4,627
9. Rents of buildings	102	1,352	(2) Main canals and branches	67	20,628
11. Miscellaneous		2,004	(3) Distributaries	..	2,689
Recoveries of expenditure	12	39	(4) Drainage and protective works	..	1,661
Deduct—Refunds	..	168	(5) Special tools and plant	..	..
Total, Revenue realized in Public Works Department	1,589	35,727	Total	74	29,605
Irrigation Revenue realized in Civil Department	16,800	6,83,587	II. MAINTENANCE AND REPAIRS—		
Total, Direct Receipts	18,389	7,19,314	(1) Head works	144	21,306
			(2) Main canals and branches	15,866	1,86,994
			(3) Distributaries	..	12,090
			(4) Drainage and protective works	..	666
			(5) Special tools and plant	..	..
			Total	16,010	2,21,056
INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	782	19,096	Total, Extensions and Improvements and Maintenance and Repairs	16,084	2,50,661
Total, Public Works and Civil Departments, Revenue	19,171	7,38,410	IV. ESTABLISHMENT	4,078	87,527
			V. TOOLS AND PLANT	44	1,370
			VI. REFUNDS OF REVENUE	..	54
			Deduct—Recoveries on revenue account.	..	44
			Total, Direct Charges	20,206	3,39,568
			Share of collection charges in the Civil Department	849	34,327
			Indirect charges	161	10,065
			Total, Direct and Indirect charges	21,216	3,83,960
			Balance, Net revenue	—2,045	3,54,450
Total, Receipts	19,171	7,38,410	Grand total	19,171	7,38,410

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

BARUR TANK—*Tank Project—cont.*

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937 ..	7,59,058	Net revenue realized to end of 1936-1937	3,56,495
* Total interest charges for the year 1937-1938 ..	18,539	Net revenue realized during 1937-1938	— 2,045
		Balance, not interest charges	4,23,147
Total ..	7,77,597	Total ..	7,77,597
	RS.		
* Interest at 4.35 per cent on Rs. 4,26,199 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938	18,539		
Total ..	18,539		

No. 5.—Account of Indirect charges for and to end of 1937-1938.

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	33	71
Total ..	33	23,809
REVENUE—		
Capitalization of abatement of land revenue	..	130
Leave and pension allowances	..	8,931
Audit and accounts	161	1,004
Total ..	161	10,065
Grand total ..	194	33,874

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 ..	..	..	..	..	..	..	..
Establishment ..	3,11,681	24,084	3,35,765	6,997	6,400	— 597	3,42,762
Tools and plant ..	71,683	5,018	76,701	1,800	1,739	— 61	78,501
Suspense account ..	6,883	48	6,931	30	128	— 98	6,961
	..	..	..	..	..	..	..
Total ..	3,90,247	29,150	4,19,397	8,827	8,267	— 560	4,28,224
<i>Less—Receipts on Capital Account.</i>	22	..	22	..	..	..	22
Net Total ..	3,90,225	29,150	4,19,375	8,827	8,267	— 560	4,28,202
<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	64	— 7	71
Total ..	22,092	1,646	23,738	71	64	— 7	23,809
Grand total ..	4,12,317	30,796	4,43,113	8,898	8,331	— 567	4,52,011

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 September 1891.

VALLUR ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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

PUBLIC WORKS DEPARTMENT.

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[illegible]

II. INDIRECT RECEIPTS—

II. INDIRECT RECEIPTS—		Share of land revenue collected in the		Share of collection charges in the Civil	
Civil Department	1,074	63,597	Department	94	11,166
			Indirect charges	23	2,969
Total, Public Works and Civil Departments, Revenue	2,154	2,30,314	Total, Direct and Indirect Charges.	2,822	1,43,228
			<i>Deduct—</i> Old maintenance charges saved to Government (a)	1,471	62,333
				1,351	80,895
			Balance, Net Revenue	803	1,49,419
Total, Receipts	2,154	2,30,314	Grand Total	2,154	2,30,314
(a) Direct—		RS.			
Extensions and Improvements	..	..	..	..	226
Maintenance and repairs	..	..	..	..	1,077
Establishment	..	..	..	..	155
Tools and plant	..	..	..	..	..
Indirect charges	..	..	Total, Direct Charges	..	1,458
				..	13
			Total, Direct and Indirect Charges	..	1,471

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PUBLIC WORKS DEPARTMENT.

VALLUR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

Amount.	Amount.
RS.	RS.
Total interest charges to end of 1936-37 ..	Net revenue realized to end of 1936-37 ..
1,70,756	1,48,616
Total interest charges for the year 1937-38—	Net revenue realized during 1937-38 ..
	803
Interest at 4.35 per cent on Rs. 74,366 representing outlay to end of 1936-37 plus half the outlay during 1937-38	Balance, net interest charges
3,235	24,572
Total ..	Total ..
1,73,991	1,73,991

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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 ..	..	2,489
Audit and accounts ..	23	480
Total ..	23	2,969
Grand Total ..	23	4,885

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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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.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
	RS.	RS.	RS.				RS.
Direct Charges.							
Works ..	50,550	10,112	60,662	..	..	..	60,662
Establishment ..	11,627	2,052	13,679	..	..	..	13,679
Tools and plant ..	..	25	25	..	..	..	25
Suspense account ..	..	..	..	..	..	..	..
Total ..	62,177	12,189	74,366	..	..	..	74,366
Less—Receipts on capital account..	..	..	..	..	..	..	..
Net Total ..	62,177	12,189	74,366	..	..	..	74,366
Indirect Charges.							
Capitalized abatement of land revenue ..	1,628	288	1,916	..	..	..	1,916
Leave and pension allowances ..	1,628	288	1,916	..	..	..	1,916
Total ..	3,256	576	3,832	..	..	..	3,832
Grand Total ..	65,433	12,765	78,198	..	..	..	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 1937–1938.

[Vide details on page 164 of the Administrative Accounts
for 1934–35.]ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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.
3. Sales of water	..	9,80,626	(1) Head works	..	6,704
4. Water-supply of towns	68,186	5,12,955	(2) Main canals and branches	..	83,020
5. Receipts from plantations	..	2,243	(3) Distributaries	..	3,277
6. Receipts from other canal produce	..	5,462	(4) Drainage and protective works	..	613
9. Rents of buildings	116	2,462	(5) Special tools and plant	..	22
10. Fines	..	322	Total	..	93,636
11. Miscellaneous	155	7,229	II. MAINTENANCE AND REPAIRS—	..	..
Recoveries of expenditure	7	82	(1) Head works	..	61,876
Deduct—Refunds	..	..	(2) Main canals and branches	14,785	8,77,501
Total, Revenue realized in Public Works Department	68,464	15,11,316	(3) Distributaries	..	3,980
Irrigation revenue realized in Civil Department	10,540	7,52,208	(4) Drainage and protective works	..	3,061
Total, Direct Receipts	79,004	22,63,524	(5) Special tools and plant	..	..
			Total	14,785	9,46,418
			Total, Extensions and Improvements and Maintenance and repairs	14,785	10,40,054
			IV. ESTABLISHMENT	2,003	3,14,497
			V. TOOLS AND PLANT	..	9,846
			VI. REFUNDS OF REVENUE	..	88
			Deduct—Recoveries on Revenue account	..	1,065
			Total, Direct Charges	16,787	13,63,420

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—cont.
No. 3.—Revenue Account for and to end of 1937–1938—cont.

Receipts.	TOTAL.		Charges.	
	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			Share of collection charges in the Civil Department	
Total, Public Works and Civil Departments—Revenue	462	29,497	Indirect charges	550
	79,466	22,93,021	Total, Direct and Indirect Charges	41,274
			Deduct—Old maintenance charges saved to Government (a)	40,920
				14,46,614
			Net Total	3,29,054
			Balance, Net revenue	13,195
Total, Receipts	79,466	22,93,021	Grand Total	66,271
				79,466
				22,93,021
(a) Extensions and improvements				
Maintenance and repairs				
Establishment				
Tools and plant				
Indirect Charges				
Total, Direct Charges				
Total, Direct and Indirect Charges				

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

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

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936–1937	38,86,749	Net revenue realized to end of 1936–1937	11,10,190
Total interest charges for the year 1937–1938	..	Net revenue realized during 1937–1938	66,271
		Balance, net interest charges	27,81,143
Interest at 4.35 per cent on Rs. 16,28,864 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938.	70,855		
Total	39,57,604	Total	39,57,604

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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	148	3,568
Total	148	40,920
Grand Total	148	2,80,974

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 L, dated 18th February 1895.

PELANDORAI ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1937-1938.

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

PELANDORAI ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

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—			
5. Receipts from plantations ..	369	12,745	(1) Head works ..	..	..	22,647
6. Receipts from other canal produce.	115	9,719	(2) Main canals and branches ..	..	283	55,461
8. Navigation Receipts ..	..	1	(3) Distributaries ..	..	..	24,938
9. Rents of buildings ..	138	2,694	(4) Drainage and protective works ..	..	..	..
10. Fines ..	..	1	(5) Special tools and plant ..	..	..	..
11. Miscellaneous ..	..	982	Total ..	283	..	1,03,046
Recoveries of expenditure ..	..	33	II. MAINTENANCE AND REPAIRS—			
Deduct—Refunds ..	..	331	(1) Head works ..	2,544	..	3,30,234
Total, Revenue realized in Public Works Department ..	622	25,844	(2) Main canals and branches ..	5,335	..	4,13,353
Irrigation Revenue realized in Civil Department ..	43,060	21,12,444	(3) Distributaries ..	4,569	..	93,848
			(4) Drainage and protective works ..	..	..	123
			(5) Special tools and plant ..	..	..	..
			Add—Unclassifiable outlay ..	..	..	..
			Total ..	12,448	..	8,37,558
Total, Direct Charges ..	43,682	21,38,288	Total, Extensions and Improvements and Maintenance and Repairs ..	12,731	9,40,604	
			IV. ESTABLISHMENT ..	7,290	2,63,262	
			V. TOOLS AND PLANT ..	30	6,293	
			VI. REFUNDS OF REVENUE ..	..	30	
			Deduct—Recoveries on Revenue account.	..	168	
			Total, Direct Charges.	20,051	12,10,021	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

II. INDIRECT RECEIPTS—			Share of collection charges in the Civil Department ..	2,157	1,06,700
Share of land revenue collected in the Civil Department ..	36	5,727	Indirect charges ..	127	33,396
Total, Public Works and Civil Departments, Revenue ..	43,768	21,44,015	Total, Direct and Indirect Charges.	22,335	13,50,117
			Deduct—Old maintenance charges saved to Government (a) ..	171	9,723
			Net Total ..	22,164	13,40,394
Total, Receipts ..	43,768	21,44,015	Balance, Net Revenue ..	21,604	8,03,621
			Grand Total ..	43,768	21,44,015
(a) Direct—					
Extensions and improvements ..	..	..			
Maintenance and repairs ..	..	..			
Establishment ..	..	..			
Tools and plant ..	..	..			
Indirect charges ..	..	..	Total, Direct Charges ..	170	1
			Total, Direct and Indirect Charges ..	171	..

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

PELANDORAI ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937.	11,91,081	Net revenue realized to end of 1936–1937.	7,82,017
* Total interest charges for the year 1937–1938.	27,983	Net revenue realized during 1937–1938.	21,604
		Balance, net interest charges.	4,15,443
Total ..	12,19,064	Total ..	12,19,064
*Interest at 4.35 per cent on Rs. 6,43,302 representing outlay to end of 1936–37 plus half the outlay during 1937–1938			
	27,983		
	27,983		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	27,907
Leave and pension allowance	..	20,865
Audit and accounts	..	..
Total ..	..	48,772
REVENUE—		
Capitalization of abatement of land revenue	..	1,069
Leave and pension allowances	..	29,994
Audit and accounts	127	2,333
Total ..	127	33,396
Grand total ..	127	82,168

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

PELANDORAI 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.	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 ..	3,32,345	1,88,292	5,20,637	..	..	..	5,20,637
Establishment ..	73,999	43,427	1,17,426	..	..	..	1,17,426
Tools and plant ..	4,438	1,599	6,037	..	..	..	6,037
Suspense account ..	..	..	..	..	..	..	..
Total ..	4,10,782	2,33,318	6,44,100	..	..	..	6,44,100
Less—Receipts on Capital account.	798	..	798	..	..	..	798
Net Total ..	4,09,984	2,33,318	6,43,302	..	..	..	6,43,302
<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 ..	42,258	6,514	48,772	..	..	..	48,772
Grand total ..	4,52,242	2,39,832	6,92,074	..	..	..	6,92,074

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

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IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

PALAR ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937–1938.

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) Headworks	..	2,10,583	2,10,583
(2) Main canals and branches	..	4,37,276	4,37,276
(3) Distributaries	..	1,75,234	1,95,313
Old outlay	..	10,26,978	10,26,978
Total, Works	..	18,50,071	18,70,150
II. Establishment	..	4,69,061	4,74,540
III. Tools and plant	..	30,042	30,444
Grand total	..	23,49,174	23,75,134
V. Less receipts on capital account	..	672	672
Net outlay in India and England	..	23,48,502	23,74,462

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

PALAR ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937–1938.

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	..	2,14,749
5. Receipts from plantations	..	26,997	(2) Main canals and branches	..	1,86,966
6. Receipts from other canal produce	..	47,087	(3) Distributaries	..	2,70,230
9. Rents of buildings	..	7,305	(4) Drainage and protective works	..	1,152
10. Fines	..	64	(5) Special tools and plant	..	32,342
11. Miscellaneous	..	36,183	Add—Unclassifiable outlay	..	7,04,439
Recoveries of expenditure	..	587	Total	808	3,44,383
Deduct—Refunds	..	43	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in Public Works Department	1,724	1,16,537	(1) Head works	1,624	11,54,519
Irrigation Revenue realized in Civil Department	1,86,468	90,11,757	(2) Main canals and branches	16,468	16,40,580
Total, Direct Receipts	1,88,192	91,28,294	(3) Distributaries	44,314	5,742
II. INDIRECT RECEIPTS—			(4) Drainage and protective works	..	99,655
Share of land revenue collected in the Civil Department	16,852	12,16,064	(5) Special tools and plant	..	32,44,879
Total, Public Works and Civil Departments, Revenue	2,05,044	1,03,44,358	Add—Unclassifiable outlay	62,406	39,49,318
			Total Extensions and Improvements and Maintenance and Repairs	63,214	10,34,907
			IV. ESTABLISHMENT	15,800	26,744
			V. TOOLS AND PLANT	121	10,393
			VI. REFUNDS OF REVENUE	..	19
			Deduct—Recoveries on Revenue Account	..	50,21,343
			Total, Direct charges	79,135	

PALAR ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937-1938—cont.

Receipts.	TOTAL.		Charges.	
	During the year.	To end of the year.	During the year.	To end of the year.
	RS.	RS.	RS.	RS.
			Share of collection charges in the Civil Department.	5,43,848
			Indirect charge	1,36,795
			Total, Direct and Indirect Charges.	57,01,986
			Deduct—Old maintenance charges saved to Government.	3,38,931
			Net Total	53,63,055
			Balance, Net Revenue	49,81,303
			Grand total	1,03,44,358
Total, Receipts ..	2,05,044	1,03,44,358		
* Direct—				
			RS.	
			Extensions and improvements	178
			Maintenance and repairs	2,909
			Establishment	723
			Tools and plant	8
			Total, Direct	3,818
Indirect .. .. .			.. .. .	31
			Total, Direct and Indirect	3,849

PALAR ANICUT SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount
	RS.		RS.
Total interest charges to end of 1936-1937	53,65,354	Net revenue realized to end of 1936-1937	48,62,292
*Total interest charges for the year 1937-1938	1,02,160	Net revenue realized during 1937-1938	1,19,011
		Balance, net interest charges	4,86,211
Total	54,67,514	Total	54,67,514
*Interest at 4.35 per cent on Rs. 23,48,502 representing outlay to end of 1936-1937 and half the outlay during 1937-1938			
	1,02,160		
Total	1,02,160		

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue	..	25,558
Leave and pension allowances	..	95,644
Audit and accounts	..	102
Total	..	1,17,304
REVENUE—		
Capitalization of abatement of land revenue	..	2,638
Leave and pension allowances	..	1,21,432
Audit and accounts	632	12,725
Total	632	1,36,795
Grand Total	632	2,54,099

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.		
	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>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Works									
Establishment ..	15,22,878	3,27,193	18,50,071	..	20,079	20,079	18,50,071		
Tools and plant ..	3,99,070	69,991	4,69,061	..	5,479	5,479	4,69,061		
Suspense account ..	29,875	167	30,042	..	402	402	30,042		
Total ..	19,51,823	3,97,351	23,49,174	..	25,960	25,960	23,49,174		
Less—Receipts on Capital Account.	..	672	672	..	..	..	672		
Net Total ..	19,51,823	3,96,679	23,48,502	..	25,960	25,960	23,48,502		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	23,054	2,504	25,558	..	..	..	25,558		
Leave and pension allowances ..	81,976	9,668	91,644	..	..	..	91,644		
Audit and accounts ..	..	102	102	..	201	201	102		
Total ..	1,05,030	12,274	1,17,304	..	201	201	1,17,304		
Grand Total ..	20,56,853	4,08,953	24,65,806	..	26,161	26,161	24,65,806		

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 1937–1938.

MADRAS PRESIDENCY.

MUNIYERU SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937–1938.

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 ..	1,948	3,32,686	3,33,671
(3) Distributaries ..	..	67,084	67,084
(6) Special tools and plant ..	..	..	..
Total, Works ..	1,948	4,70,011	4,70,996
II. Establishment ..	635	1,06,339	1,06,201
III. Tools and plant ..	11	3,747	3,852
V. Less receipts on capital account ..	..	1,732	1,732
Net outlay in India and England ..	2,594	5,78,365	5,79,317

PUBLIC WORKS DEPARTMENT.

MUNIYERU SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937-1938.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
	RS.	RS.		RS.	RS.
1. DIRECT RECEIPTS—			I. EXTENSIONS AND IMPROVEMENTS—		
5. Receipts from plantations ..	..	1,577	(1) Head works ..	..	2,579
6. Receipts from other canal produce ..	1,084	19,245	(2) Main canals and branches ..	3,631	11,642
9. Rents of buildings ..	78	2,314	(3) Distributaries ..	..	974
11. Miscellaneous ..	2	4,392	(4) Drainage and protective works ..	..	34
Deduct refunds ..	..	6	(5) Special tools and plant ..	..	..
	..	66	Total ..	3,631	15,229
			II. MAINTENANCE AND REPAIRS—		
			(1) Head works ..	1,044	92,847
			(2) Main canals and branches ..	8,495	1,31,136
			(3) Distributaries ..	1,225	34,108
			(4) Drainage and protective works ..	..	10
			(5) Special tools and plant ..	..	..
			Add—Unclassifiable outlay ..	..	..
			Total ..	10,764	2,58,101
Total, Revenue realized in Public Works Department ..	1,164	27,468	Total, Extensions and Improvements and Maintenance and Repairs ..	14,395	2,73,330
Irrigation Revenue realized in Civil Department ..	40,764	9,28,043	IV. ESTABLISHMENT ..	5,839	96,831
			V. TOOLS AND PLANT ..	83	2,080
			VI. REFUNDS OF REVENUE ..	..	51
Total Direct Receipts ..	41,928	9,55,511	Total, Direct Charges ..	20,337	3,72,292

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

I. INDIRECT RECEIPTS—			Share of collection charges in the Civil Department ..	2,041	46,555
Share of Land Revenue collected in the Civil Department ..	62	3,119	Indirect Charges ..	144	8,903
Total, Public Works and Civil Departments, Revenue ..	41,990	9,58,630	Total, Direct and Indirect charges ..	22,522	4,27,750
			* Deduct—Old maintenance charges saved to Government ..	297	6,918
			Total, Direct and Indirect charges ..	22,225	4,20,832
			Total, Direct and Indirect charges ..	19,765	5,37,798
			Balance, net revenue ..	41,990	9,58,630
Total Receipts ..	41,990	9,58,630	Grand total ..		
				RS.	
* Direct—					
Extensions and improvements ..	..	..	..	..	..
Maintenance and repairs ..	..	..	..	..	222
Establishment ..	..	..	..	..	72
Tools and plant ..	..	..	..	..	1
Indirect ..	..	..	Total, Direct ..	295	..
			..	2	..
			Total, Direct and Indirect ..	297	..

MUNIYERU SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936-1937 ..	7,96,062	Net revenue realized to end of 1936-1937 ..	5,18,033
* Total interest charges for the year 1937-1938 ..	25,102	Net revenue realized during 1937-1938 ..	19,765
		Balance, net interest charges ..	2,83,366
Total ..	8,21,164	Total ..	8,21,164

* Interest at 4.35 per cent on Rs. 5,77,068 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938 25,102

Total 25,102

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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	19	67
Total ..	19	29,802
REVENUE—		
Capitalization of abatement of land revenue ..	..	34
Leave and pension allowances	..	7,547
Audit and accounts	144	1,322
Total ..	144	8,903
Grand total ..	163	38,705

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	5,215	6,200	985	4,70,011
Establishment ..	1,03,806	710	1,04,516	1,823	1,685	—	1,06,339
Tools and plant ..	3,713	15	3,728	19	124	105	3,747
Suspense account ..	..	..	..	..	..	..	..
Total ..	5,70,698	2,342	5,73,040	7,057	8,009	952	5,80,097
Less—Receipts on Capital account..	1,732	..	1,732	..	..	..	1,732
Net Total ..	5,68,966	2,342	5,71,308	7,057	8,009	952	5,78,365
Indirect Charges.							
Capitalized abatement of land revenue ..	15,104	..	15,104	..	..	..	15,104
Leave and pension allowances ..	14,532	16	14,631	..	..	11	14,631
Audit and account ..	..	115	115	51	62	..	67
Total ..	29,636	115	29,751	51	62	11	29,802
Grand total ..	5,98,602	2,457	6,01,059	7,108	8,071	963	6,08,167

The construction estimate of the project was closed in 1901-1902 and the completion report approved in G.O. No. 196 L, dated 14th July 1922.

DONDAPAD TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1937–1938.

[Vide details on page 190 of the Administrative Accounts for 1934–35.]

DONDAPAD TANK—*Tank Project—cont.*

No. 3.—Revenue Account for and to end of 1937–1938.

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		165	(1) Head works		73
6. Receipts from other canal produce ..		635	(2) Main canals and branches		
II. Miscellaneous		256	(3) Distributaries	314	1,273
Total, Revenue realized in Public Works Department		1,056	(4) Drainage and productive works ..		
Irrigation Revenue realized in Civil Department		30,007	(5) Special tools and plant		
Total, Direct Receipts	1,376	31,063	Total	314	1,346
III. INDIRECT RECEIPTS—			II. MAINTENANCE AND REPAIRS—		
Share of land revenue collected in the Civil Department	10	172	(1) Head works		7,216
Total, Public Works and Civil Departments, Revenue	1,386	31,235	(2) Main canals and branches		149
			(3) Distributaries		3,712
			(4) Drainage and productive works ..		
			(5) Special tools and plant		
			Add—Unclassifiable outlay		
			Total		11,077
			Total, Extensions and Improvements and Maintenance and Repairs ..	314	12,423
			IV. ESTABLISHMENT	134	4,122
			V. TOOLS AND PLANT	2	37
			VI. REFUNDS OF REVENUE		
			Total, Direct Charges	450	16,582
			Share of collection charges in the Civil Department	69	1,505
			Indirect charges	3	500
			Total, Direct and Indirect Charges ..	522	18,587
			Balance, net revenue	864	12,648
			Grand Total	1,386	31,235
Total, Receipts	1,386	31,235			

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

DONDAPAD TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937 ..	1,90,914	Net revenue realized to end of 1936–1937 ..	11,784
* Total interest charges for the year 1937–1938 ..	5,440	Net revenue realized during 1937–1938 ..	864
		Balance, net interest charges.	1,83,706
Total ..	1,96,354	Total ..	1,96,354
* Interest at 4.35 per cent on Rs. 1,24,786 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 ..	5,440		
Total ..	5,440		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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 ..	3	18
Total ..	3	500
Grand Total ..	3	15,718

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.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.	
<i>Direct Charges.</i>							
Works ..	96,521	9,327	1,05,848	..	..	..	1,05,848
Establishment ..	17,017	1,928	18,945	..	..	..	18,945
Tools and plant ..	..	..	..	..	..	..	..
Suspense account ..	..	..	..	..	..	..	..
Total ..	1,13,538	11,255	1,24,793	..	..	..	1,24,793
<i>Less—</i> Receipts on Capital account ..	7	..	7	..	..	..	7
Net Total ..	1,13,531	11,255	1,24,786	..	..	..	1,24,786
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	12,062	504	12,566	..	..	..	12,566
Leave and pension allowances ..	2,382	270	2,652	..	..	..	2,652
Total ..	14,444	774	15,218	..	..	..	15,218
Grand Total ..	1,27,975	12,029	1,40,004	..	..	..	1,40,004

The construction estimate of the project was closed on 31st March 1903 and the completion report approved in G.O. No. 61 I., dated 6th February 1914.

YERUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1937–1938.

[Vide details on page 194 of the Administrative Accounts
for 1934–35.]YERUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

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	..	..	18,187
			(2) Main canals and branches	..	..	..
			(3) Distributaries	..	..	..
			(4) Drainage and protective works	..	..	..
			(5) Special tools and plant	..	..	..
			Total	..	..	18,187
Irrigation revenue realized in Civil Department	1,449	58,632	Total, Extensions and Improvements and Maintenance and Repairs	592	18,187	
Total, Direct Receipts	1,449	58,632	IV. ESTABLISHMENT	324	5,361	
II. INDIRECT RECEIPTS—			V. TOOLS AND PLANT	4	93	
Share of land revenue collected in the Civil Department	86	1,753	VI. REFUNDS OF REVENUE	..	..	
			Total, Direct Charges	920	23,876	
Total, Public Works and Civil Departments, Revenue	1,363	60,385	Share of collection charges in the Civil Department	68	3,020	
			Indirect Charges	6	438	
Total, Receipts	1,363	60,385	Total, Direct and Indirect Charges	858	27,334	
			Balance, net revenue	2,221	33,051	
			Grand Total	1,363	60,385	

YERUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937 ..	67,554	Net revenue realized to end of 1936–1937 ..	35,272
* Total interest charges for the year 1937–1938 ..	2,685	Net revenue realized during 1937–1938 ..	— 2,221
		Balance, net interest charges ..	37,188
Total ..	70,239	Total ..	70,239
* Interest at 4·35 per cent on Rs. 61,741 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 ..			
	2,685		
Total ..	2,685		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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 ..	..	6	51
Total ..	..	6	438
Grand Total ..	..	6	2,050

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.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. RS.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
Direct Charges.	RS.	RS.	RS.				
Works ..	..	..	..	..	..	..	50,219
Establishment ..	48,303	1,916	50,219	..	..	..	11,622
Tools and plant ..	11,110	412	11,522	..	..	..	..
Suspense account ..	..	..	..	..	..	..	..
Total ..	59,413	2,328	61,741	..	..	..	61,741
Less—Receipts on capital account.	..	..	..	..	..	..	..
Net Total ..	59,413	2,328	61,741	..	..	..	61,741
Indirect Charges.							
Capitalized abatement of land revenue ..	..	..	..	..	..	..	1,612
Leave and pension allowances ..	1,555	57	1,612	..	..	..	1,612
Total ..	1,555	57	1,612	..	..	..	1,612
Grand Total ..	60,968	2,385	63,353	..	..	..	63,353

The construction estimate of the project was closed on 31st March 1907 and the completion report approved in G.O. No. 322 I., dated 16th October 1911.

SAGILERU SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937–1938.

[Vide details on page 198 of the Administrative Accounts for 1934–35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.SAGILERU SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1937–1938.

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	..	53	I. EXTENSIONS AND IMPROVEMENTS—		
6. Receipts from other canal produce	..	307	(1) Head works	..	1,180
9. Rents of buildings	15	1,217	(2) Main canals and branches	14	9,403
Recoveries of expenditure	59	31	(3) Distributaries	..	693
11. Miscellaneous and other receipts.	..	171	(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	..
Total, Revenue realized in Public Works Department	74	1,779	Total	14	11,276
II. Revenue realized in Civil Department	3,049	87,063	II. MAINTENANCE AND REPAIRS—		
			(1) Head works	493	13,296
			(2) Main canals and branches	2,413	1,11,441
			(3) Distributaries	..	5,590
			(4) Drainage and protective works	..	..
			(7) Special tools and plant	..	..
			Total	2,906	1,30,327
Total, Direct Receipts	3,123	88,842	Total, Extensions and Improvements and Maintenance and Repairs	2,920	1,41,603
			IV. ESTABLISHMENT	1,505	39,768
			V. TOOLS AND PLANT	7	565
			VI. REFUNDS OF REVENUE	..	..
			Total, Direct Charges	4,432	1,81,936

SAGILERU SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938—cont.

	TOTAL.			TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
RS.	RS.	RS.	RS.	RS.	RS.
II. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department ..	26	424	Share of collection charges in the Civil Department ..	154	4,374
Total, Public Works and Civil Departments, Revenue ..	3,149	89,266	Indirect charges ..	29	4,279
Net deficit, if any ..	— 1,844	33,108	Total, Direct and Indirect Charges ..	4,615	1,90,589
			* Deduct old maintenance charges saved to Government ..	3,310	68,215
			Balance, Net revenue ..	1,305	1,22,374
Total ..	1,305	1,22,374	Grand Total ..	1,305	1,22,374
* Direct—			RS.		
Extensions and Improvements ..			..		500
Maintenance and Repairs ..			..		1,685
Establishment ..			..		1,098
Tools and plant ..			..		5
Indirect ..			Total, Direct ..		3,288
			..		22
			Total, Direct and Indirect ..		3,310

SAGILERU SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937 ..	6,53,001	Net revenue realized to end of 1936-1937 ..	— 34,952
Total interest charges for the year 1937-1938—		Net revenue realized during 1937-1938 ..	1,844
		Balance, net interest charges ..	7,05,558
Interest at 4.35 per cent on Rs. 4,47,108 representing outlay to end of 1936-1937 + half the outlay during 1937-1938 ..	19,449		
Total ..	6,72,450	Total ..	6,72,450

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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 ..	..	739
Total ..	29	4,279
Grand Total ..	29	21,898

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.
Direct Charges.							
Works	..	..	..	..	..	..	..
Establishment	..	..	3,54,321	..	..	..	3,54,321
Tools and plant	..	..	80,339	..	..	..	80,339
Supervise account	..	..	12,449	..	..	..	12,449
	..	..	..	..	..	..	..
Total	..	..	4,47,109	..	..	..	4,47,109
Less—Receipts on capital account	..	..	1	..	..	..	1
Net Total	..	..	4,47,108	..	..	..	4,47,108
Indirect Charges.							
Capitalized abatement of land revenue	..	..	6,372	..	..	..	6,372
Leave and pension allowances	..	..	11,247	..	..	..	11,247
Total	..	..	17,619	..	..	..	17,619
Grand Total	..	..	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.

ATMAKUR TANK—Tank Project.

No. 2.—Capital Account for and to end of 1937-1938.

[Vide details on page 203 of the Administrative Accounts for 1934-35.]

ATMAKUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

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) Head works	..	766
(4) Water-supply of towns ..	..	..	(2) Main canals and branches ..	..	..
(5) Receipts from plantations ..	..	..	(3) Distributaries	503	639
(6) Receipts from other canal produce.	..	35	(4) Drainage and protective works ..	..	..
(8) Navigation receipts	..	..	(5) Special tools and plant	..	..
(9) Rents of buildings	..	..	Total	503	1,405
(10) Fines	..	7			
(11) Miscellaneous	..	..	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in the Public Works Department	6	42	(1) Head works	..	7,495
Revenue realized in Civil Department	1,634	56,034	(2) Main canals and branches ..	387	3,173
Total, Direct Receipts	1,640	56,076	(3) Distributaries	..	3,965
			(4) Drainage and protective works ..	..	..
II. INDIRECT RECEIPTS—			(5) Special tools and plant	..	..
Share of Land Revenue collected in the Civil Department	..	..	Add—Unclassifiable outlay	..	..
Total, Public Works and Civil Department—Revenue	1,640	56,076	Total	387	14,633
Total, Receipts	1,640	56,076	Total, Extensions and Improvements and Maintenance and Repairs ..	890	16,038
			IV. ESTABLISHMENT	357	6,830
			V. TOOLS AND PLANT	5	75
			Deduct—Recoveries on Revenue account.	..	100
			Total, Direct Charges	1,252	22,843
			Share of collection charges in the Civil Department	82	2,801
			Indirect charges	9	663
			Total, Direct and Indirect Charges ..	1,343	26,307
			Balance, net revenue	297	29,769
			Grand total	1,640	56,076

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

ATMAKUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937	1,22,074	Net revenue realized to end of 1936–1937	29,472
Total interest charges for the year 1937–1938—		Net revenue realized during 1937–1938	297
Interest at 4.35 per cent on Rs. 1,11,959 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938	4,870	Balance, net interest charges	97,175
Total	1,26,944	Total	1,26,944

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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	9	112
Total	9	663
Grand total	9	14,107

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.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.
<i>Direct Charges.</i>						
Works	91,202	1,563	92,765	..	..	..
Establishment	18,749	442	19,191	..	..	..
Tools and plant	..	3	3	..	..	..
Suspense account	..	..	..	..	..	..
Total ..	1,09,951	2,008	1,11,959	..	..	..
Less—Receipts on Capital account..	..	..	..	..	..	..
Net Total ..	1,09,951	2,008	1,11,959	..	..	..
<i>Indirect charges.</i>						
Capitalized abatement of land revenue	10,802	..	10,802	..	..	..
Leave and pension allowances	2,626	..	2,626	..	..	..
Audit and accounts	..	16	16	..	..	..
Total ..	13,428	16	13,444	..	..	..
Grand total ..	1,23,379	2,024	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.

JANGAMAHESWARAPURAM TANK—Tank Project.

No. 2.—Capital Account for and to end of 1937-1938.

[Vide details on page 207 of the Administrative account for 1934-35.]

PUBLIC WORKS DEPARTMENT.

JANGAMAHEWARAPURAM TANK—Tank Project—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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—				
5. Receipts from plantations	..	..	I. EXTENSIONS AND IMPROVEMENTS—	..
6. Receipts from other canal produce.	..	1,374	(1) Head works	177
..	..	..	(2) Main canal and branches	32
..	..	..	(3) Distributaries	587
..	..	..	(4) Drainage and protective works ..	..
..	..	..	(5) Special tools and plant	..
11. Miscellaneous	..	14	Total	796
Total, Revenue realized in Public Works Department.	..	1,390	II. MAINTENANCE AND REPAIRS—	
..	..	..	(1) Head works	2,775
..	..	..	(2) Main canals and branches	352
..	..	..	(3) Distributaries	3,431
..	..	..	(4) Drainage and protective works ..	467
..	..	..	(5) Special tools and plant	..
..	..	..	Add—Unclassifiable outlay	..
..	..	..	Total	7,025
Total, Direct Receipts	333	23,858	Total, Extensions and Improvements and Maintenance and Repairs.	
..	..	..	..	7,821
II. INDIRECT RECEIPTS—				
Share of land revenue collected in the Civil Department.	..	..	IV. ESTABLISHMENT	37
Total Public Works and Civil Departments—Revenue.	333	23,858	V. TOOLS AND PLANT	— 4
..	..	..	VI. REFUNDS OF REVENUE	..
..	..	..	Total, Direct Charges	11,154
..	..	..	Share of collection charges in the Civil Department.	1,120
..	..	..	Indirect charge	352
..	..	..	Total, Direct and Indirect Charges.	12,626
..	..	..	Balance, net revenue	11,232
(a) Total, Receipts	333	23,858	Grand total	23,858

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

JANGAMAHEWARAPURAM TANK—Tank Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
RS.	RS.	RS.	RS.
Total interest charges to end of 1936–1937.	69,614	Net revenue realized to end of 1936–1937.	10,976
Total interest charges for the year 1937–1938—		Net revenue realized during 1937–1938.	256
Interest at 4.35 per cent on Rs. 61,253 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938.	2,664	Balance, net interest charges.	61,046
Total	72,278	Total	72,278

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	To end of the year.
RS.	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	..	35
Total	..	352
Grand total	..	10,763

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
Less—Receipts on Capital account.	..	..	..	..	..	..	..
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 May 1914.

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project*.

No. 2.—Capital Account for and to end of 1937-1938.

[Vide details on page 211 of the Administrative Accounts for 1934-35.]

ANAMASAMUDRAM-BERAPEBU TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1937-1938.

IRRIGATION BRANCH.

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—				
6. Receipts from other canal produce.	..	..	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

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PUBLIC WORKS DEPARTMENT.

9. Rents of buildings	..	..	II. MAINTENANCE AND REPAIRS—	
11. Miscellaneous	..	32	(1) Head works	611
			(2) Main canal and branches ..	9,228
			(3) Distributaries	3,205
			(4) Drainage and protective works ..	..
			(5) Special tools and plant	..
			Add—Unclassifiable outlay	..
Total, Revenue realized in Public Works Department.	..	..	Total	12,433
Irrigation revenue realized in Civil Department.	7	— 1,101		
			Total, Extensions and Improvements and Maintenance and Repairs.	12,821
Total, Direct Receipts ..	7	— 1,069	IV. ESTABLISHMENT	211
			V. TOOLS AND PLANT	4
			VI. REFUNDS OF REVENUE	..
II. INDIRECT RECEIPTS—			Total, Direct Charges ..	16,538
Share of land revenue collected in the Civil Department.	1	30	Share of collection charges in the Civil Department.	— 51
			Indirect charges	215

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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MADRAS PRESIDENCY.

Total, Public Works and Civil Departments, Revenue	8	— 1,039	Total, Direct and Indirect Charges ..	832	16,702
			* Deduct—		
			Old maintenance charges saved to Government	859	18,864
			Net Total	— 27	— 2,162
			Balance, net revenue	35	1,123
			Grand Total	8	— 1,039
Total	8	— 1,039			
* Direct—					
Extensions and improvements ..	..	..	RS.		
Maintenance and repairs ..	..	..	28		
Establishment	..	..	612		
Tools and plant	..	..	209		
	..	..	4		
Indirect	..	..	Total, Direct ..	853	
			.. ..	6	
			Total, Direct and Indirect ..	859	

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

Amount.		Amount.	
RS.		RS.	
Total interest charges to end of 1936–1937 ..	72,785	Net revenue realized to end of 1936–1937 ..	1,088
* Total interest charges for the year 1937–1938.	3,118	Net revenue realized during 1937–1938 ..	35
		Balance, net interest charges ..	74,780
Total ..	75,903	Total ..	75,903
RS.			
* Interest at 4.35 per cent on Rs. 71,687 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 ..		3,118	
Total ..		3,118	

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	To end of the year.
	RS.	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	100
Total ..	6	215
Grand Total ..	6	2,101

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

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.
	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 ..	52,139	6,282	58,421	..	..	..	58,421
Establishment ..	11,915	1,351	13,266	..	..	..	13,266
Tools and plant ..	..	..	..	..	..	..	..
Suspense account ..	..	..	..	..	..	..	..
Total ..	64,054	7,633	71,687	..	..	..	71,687
Less—Receipts on Capital account.	..	..	..	..	..	..	..
Net Total ..	64,054	7,633	71,687	..	..	..	71,687
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	30	..	30	..	..	..	30
Leave and pension allowances ..	1,867	189	1,856	..	..	..	1,856
Total ..	1,897	189	1,886	..	..	..	1,886
Grand Total ..	65,751	7,822	73,573	..	..	..	73,573

The construction estimate of two projects was closed on 31st March 1910 and the completion report approved in G.O. No. 90 L, dated 5th March 1912.

No. 2.—Capital Account for and to end of 1937-1938.

[Vide details on page 216 of the Administrative Accounts for 1934-35.]

No. 3.—Revenue Account for and to end of 1937-1938.

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—		
6. Receipts from other canal produce.	..	101	(1) Head works	..	1,258
II. Miscellaneous	..	1,899	(2) Main canals and branches	..	..
			(3) Distributaries	..	130
			(4) Drainage and protective works	..	..
			(5) Special tools and plant	..	..
			Total	..	1,388
Total, Revenue realized in Public Works Department	..	11,991	II. MAINTENANCE AND REPAIRS—		
Irrigation Revenue realized in Civil Department.	2,964		(1) Head works	..	400
Total, Direct Receipts	2,964	81,153	(2) Main canals and branches	..	9,691
			(3) Distributaries	..	83
			(4) Drainage and protective works	..	232
			(5) Special tools and plant	..	..
			Add—Unclassifiable outlay	..	..
			Total	400	10,006
II. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department	70	586	Total, Extensions and Improvements and Maintenance and Repairs	400	11,394
Total, Public Works and Civil Departments, Revenue	3,034	81,739	IV. ESTABLISHMENT	227	4,790
			V. TOOLS AND PLANT	2	71
			VI. REFUNDS OF REVENUE	..	..
			Total, Direct Charges	629	16,255
Total Receipts	3,034	81,739	Share of collection charges in the Civil Department	151	3,485
			Indirect charges	4	376
			Total, Direct and Indirect Charges	784	20,116
			Balance, net revenue	2,250	61,623
			Grand Total	3,034	81,739

HAJIPURAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937 ..	2,97,076	Net revenue realized to end of 1936-1937	59,373
* Total interest charges for the year 1937-1938 ..	12,126	Net revenue realized during 1937-1938	2,250
		Balance, net interest charges	2,47,579
Total ..	<u>3,09,202</u>	Total ..	<u>3,09,202</u>
	RS.		
* Interest at 4.35 per cent on Rs. 2,78,774 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938.	12,126		
Total ..	<u>12,126</u>		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	To end of the year.
RS.	RS.	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 ..	4	100
Total ..	4	376
Grand Total ..	4	33,485

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 Gold 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 ..	..	..	..	..	..	..	2,30,686
Establishment ..	..	..	..	..	..	..	48,308
Tools and plant ..	..	..	..	..	..	..	..
Suspense account ..	..	..	..	..	..	..	..
Total ..	2,28,024	2,662	2,30,686	..	..	..	2,78,994
	47,880	428	48,308	..	..	..	220
	..	..	..	..	..	..	2,78,774
Less—Receipts on Capital account.	2,75,904	3,090	2,78,994	..	..	..	..
Net Total ..	220	..	220	..	..	..	..
	2,75,684	3,090	2,78,774	..	..	..	..
Indirect Charges.							
Capitalized abatement of land revenue ..	..	..	..	..	..	..	26,346
Leave and pension allowances ..	..	..	..	..	..	..	6,763
Total ..	25,879	467	26,346	..	..	..	33,109
	6,703	60	6,763	..	..	..	3,11,883
Grand Total ..	32,582	527	33,109	..	..	..	..
	3,08,266	3,617	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.

PUBLIC WORKS DEPARTMENT.

PONNALUR TANK—*Tank Project.*

No. 2.—(Capital Account for and to end of 1937-1938.

[Vide details on page 220 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

PONNALUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

	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) 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 ..		4,389	1,23,813	II. MAINTENANCE AND REPAIRS—		
Total, Direct Receipts.		..	..	(1) Head works ..	2,487	74,477
II. INDIRECT RECEIPTS—				(2) Main canals and branches ..	..	18,071
Share of land revenue collected in the Civil Department ..		..	..	(3) Distributaries ..	..	..
Total, Public Works and Civil Departments, Revenue ..		4,389	1,23,968	(4) Drainage and protective works ..	..	..
Net deficit, if any ..		— 725	17,025	(5) Special tools and plant ..	..	..
				Add—Unclassifiable outlay ..	..	..
				Total ..	2,487	92,548
				Total, Extensions and Improvements and Maintenance and Repairs ..	2,487	1,03,019
				IV. ESTABLISHMENT ..	918	28,821
				V. TOOLS AND PLANT ..	14	281
				VI. REFUNDS OF REVENUE ..	..	..
				Total, Direct Charges ..	3,419	1,32,121
				Share of collection charges in the Civil Department ..	220	6,194
				Indirect charges ..	25	2,678
				Total, Direct and Indirect Charges ..	3,664	1,40,993
				Balance, net revenue.	..	..
Total ..		3,664	1,40,993	Grand Total ..	3,664	1,40,993

PONNALUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936-1937 ..	2,11,303	Net revenue realized to end of 1936-1937 ..	— 17,750
* Total interest charges for the year 1937-1938 ..	8,394	Net revenue realized during 1937-1938 ..	725
		Balance, net interest charges ..	2,36,722
Total ..	2,19,697	Total ..	2,19,697
	RS.		
* Interest at 4.35 per cent on Rs. 1,92,975 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938.	8,394		
Total ..	8,394		

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year. RS.	To end of the year. 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 ..	..	492
Total ..	25	2,678
Grand total ..	25	28,352

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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>							
Works ..	1,39,349	21,914	1,61,263	..	..	..	1,61,263
Establishment ..	27,013	4,645	31,658	..	..	..	31,658
Tools and plant ..	..	54	54	..	..	..	54
Suspense account ..	..	..	..	..	..	..	..
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 1937-1938.

[Vide details on page 224 of the Administrative Accounts for 1934-35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.MARKAPUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

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 ..	30	7,101
11. Miscellaneous ..	78		(3) Distributaries ..	15	120
			(4) Drainage and protective works ..	..	..
			(5) Special tools and plant ..	..	..
Total, Revenue realized in Public Works Department ..	78	406	Total ..	15	8,093
Irrigation Revenue realized in Civil Department ..	6,520	1,22,494	II. MAINTENANCE AND REPAIRS—		
			(1) Head works ..	1,336	30,545
			(2) Main canals and branches ..	392	33,191
			(3) Distributaries ..	..	2,425
			(4) Drainage and protective works ..	..	..
			(5) Special tools and plant ..	..	..
			Total ..	1,728	66,161
			Total, Extensions and Improvements and Maintenance and Repairs ..	1,713	74,254
			IV. ESTABLISHMENT ..	975	22,879
			V. TOOLS AND PLANT ..	4	262
			VI. REFUNDS OF REVENUE ..	..	..
			Total, Direct Charges ..	2,692	97,395
Total, Direct Receipts ..	6,598	1,22,900			

MARKAPUR TANK—Tank Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938—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.
INDIRECT RECEIPTS—						
Share of Land Revenue collected in the Civil Department		26	Share of collection charges in the Department		326	6,124
Total, Public Works and Civil Departments, Revenue	1		Indirect Charges		17	2,066
	6,599	1,22,926	Total, Direct and Indirect Charges	3,035		1,05,585
			Deduct—Old maintenance charges saved to Government*	365		7,556
			Net Total	2,670		98,029
			Balance, net revenue	3,929		24,897
Total, Receipts	6,599	1,22,926	Grand Total	6,599		1,22,926

* Direct—
Extensions and improvements 29
Maintenance and repairs 213
Establishment 121
Tools and plant

Indirect

RS.
29
213
121
.. .. .
Total Direct 363
Total, Direct and Indirect 365

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

MARKAPUR TANK—Tank Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937	1,18,317	Net revenue realized to end of 1936-1937	20,968
*Total interest charges for the year 1937-1938	5,415	Net revenue realized during 1937-1938	3,929
		Balance, net interest charges	98,835
Total	1,23,732	Total	1,23,732
			RS.
		*Interest at 4.35 per cent on Rs. 1,24,481 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938	5,415
		Total	5,415

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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	17	563
Total	17	2,066
Grand Total	17	6,925

PUBLIC WORKS DEPARTMENT.

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.	Expenditure against open canal sanction.	Charges to date.	Amount of sanctioned estimate.	
	RS.	RS.		Unspent balance of estimate.	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 ..	..	1,595	..	..	1,595
Revenue ..	2,918	288	..	..	3,206
Leave and pension allowances ..	..	58	..	..	58
Audit and accounts ..	..	..	..	..	..
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 1937-1938.

MADRAS PRESIDENCY.

NAGAVALLI RIVER SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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	6,403	2,67,852	2,74,383
(6) Special tools and plant ..	..	..	..
Maintenance during construction.	..	16,500	16,500
Total, Works ..	6,403	13,45,875	13,52,406
II. ESTABLISHMENT	2,269	2,81,486	2,78,002
III. TOOLS AND PLANT	58	93,463	93,849
V. LESS RECEIPTS ON CAPITAL ACCOUNT.	..	5,308	5,308
Net outlay in India and England ..	8,730	17,15,516	17,19,849

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

NAGAVALLI RIVER SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

Particulars.	Amount. RS.	Particulars.	Amount. RS.
Total interest charges to end of 1936-1937 ..	16,11,841	Net revenue realized to end of 1936-1937 ..	12,49,136
Total interest charges for the year 1937-1938—		Net revenue realized during 1937-1938 ..	34,987
Interest at 4.35 per cent on Rupees 17,11,161 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938 ..	74,434	Balance net interest charges ..	4,02,152
Total ..	16,86,275	Total ..	16,86,275

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year. RS.	To end of the year. RS.
CAPITAL—		
Capitalization of abatement of land revenue ..	1,728	6,110
Leave and pension allowances ..	..	37,815
Audit and accounts ..	64	409
Total ..	1,792	44,334
REVENUE—		
Capitalization of abatement of land revenue ..	..	15,800
Leave and pension allowances ..	..	3,004
Audit and accounts ..	313	..
Total ..	313	18,804
Grand total ..	2,105	62,938

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MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.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. 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 ..	12,24,720	1,01,089	13,25,809	20,066	26,597	6,531	13,45,875
Establishment ..	2,42,924	28,811	2,71,735	9,751	7,167	2,584	2,81,486
Tools and plant ..	93,355	..	93,317	146	532	386	93,463
Suspense account ..	..	..	..	..	..	..	..
Total ..	15,60,999	1,29,862	16,90,861	29,963	34,296	4,333	17,20,324
Less—Receipts on Capital account..	1,374	3,934	5,308	..	..	..	5,308
Net total ..	15,59,625	1,25,928	16,85,553	29,963	34,296	4,333	17,15,516
Indirect charges.							
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	..	..	..	37,815
Audit and accounts ..	..	209	209	200	266	66	409
Total ..	37,282	6,852	44,134	200	2,461	2,261	44,334
Grand total ..	15,96,907	1,32,780	17,29,687	30,163	36,757	6,594	17,59,850

The construction estimate of the Project was closed on 31st December 1913 and the completion report approved in G.O. No. 71, I., dated 25th February 1920.

PUBLIC WORKS DEPARTMENT.

VENKATAPURAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1937–1938.

[Vide details in page 235 of the Administrative Accounts for 1934–35.]

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

VENKATAPURAM TANK—*Tank Project*—cont.
No. 3.—Revenue Account for and to end of 1937–1938.

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—		
6. Receipts from other canal produce.	..	..	(1) Head works	..	185
			(2) Main canals and branches	..	158
			(3) Distributaries	..	..
			(4) Drainage and protective works.	..	..
			Total	..	343
9. Rents of buildings	..	..	II. MAINTENANCE AND REPAIRS—		
11. Miscellaneous	..	..	(1) Head works	699	7,729
Total, Revenue realized in Public Works Department.	..	..	(2) Main canals and branches	..	1,743
			(3) Distributaries	..	..
			(4) Drainage and protective works.	..	..
			Total	699	9,472
Irrigation Revenue realized in Civil Department.	784	13,956	Total, Extensions and Improvements and Maintenance and Repairs.	699	9,815
Total, Direct Receipts	784	13,956	IV. ESTABLISHMENT	382	4,211
II. INDIRECT RECEIPTS—			V. TOOLS AND PLANT	1	55
Share of land revenue collected in the Civil Department.	38	266	VI. REFUNDS OF REVENUE	..	..
			Total, Direct Charges	1,082	14,081
			Share of collection charges in the Civil Department.	.. 41	709
Total, Public Works and Civil Departments, Revenue.	822	14,222	Indirect Charges	7	430
Net deficit, if any	308	998	Total, Direct and Indirect Charges.	1,130	15,220
			Balance, Net revenue	..	..
Total	1,130	15,220	Grand total	1,130	15,220

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PUBLIC WORKS DEPARTMENT.

VENKATAPURAM TANK—Tank Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

Particulars.	Amount. RS.	Amount. RS.
Total interest charges to end of 1936-1937 ..	3,16,929	— 690
* Total interest charges for the year 1937-1938 ..	16,193	— 308
Total ..	3,33,122	3,34,120
		3,33,122
* Interest at 4.35 per cent on Rs. 3,72,250 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938 ..	16,193	
Total ..	16,193	

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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 ..	..	87
Audit and accounts ..	7	430
Total ..	7	430
Grand total ..	7	13,101

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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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.	Charges of date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
Direct Charges.						
Works ..	3,00,808	3,186	..	..	..	3,03,994
Establishment ..	62,353	2,186	..	..	..	64,539
Tools and plant ..	4,205	31	..	..	..	4,236
Suspense account ..	..	..	..	..	..	..
Total ..	3,67,366	5,403	..	..	..	3,72,769
Less—Receipts on Capital Account.	519	..	..	..	..	519
Net Total ..	3,66,847	5,403	..	..	..	3,72,250
Indirect Charges.						
Capitalized abatement of land revenue.	3,627	8	..	..	..	3,635
Leave and pension allowances ..	8,728	306	..	..	..	9,034
Audit and accounts ..	..	2	..	..	..	2
Total ..	12,355	316	..	..	..	12,671
Grand Total ..	3,79,202	5,719	..	..	..	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.

BHAVANASI TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1937-1938.

[Vide details on page 239 of the Administrative Accounts for 1934-35.]

BHAVANASI TANK—*Tank Project—cont.*
No. 3.—Revenue Account for and to end of 1937-1938.ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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. DIRECT RECEIPTS—						
5. Receipts from plantations	..	..	I. EXTENSIONS AND IMPROVEMENTS—			
6. Receipts from other canal produce.	36	530	(1) Head works	..	734	..
Recoveries of expenditure	..	..	(2) Main canals and branches	..	272	..
11. Miscellaneous	..	231	(3) Distributaries	..	4,415	..
Total, Revenue realized in Public Works Department.	36	764	(4) Drainage and protective works	..	..	..
			(5) Special tools and plants	..	..	..
Irrigation revenue realized in Civil Department.	4,967	79,358	Total	..	5,421	..
Total, Direct Receipts	5,003	80,122	II. MAINTENANCE AND REPAIRS—			
II. INDIRECT RECEIPTS—			(1) Head works	624	10,852	..
Share of land revenue collected in the Civil Department.	..	..	(2) Main canals and branches	..	25,292	..
Total, Public Works and Civil Department, Revenue.	5,003	80,122	(3) Distributaries	355	5,491	..
			(4) Drainage and protective works	154	1,463	..
			(5) Special tools and plant	..	..	..
			Add—Unclassifiable outlay	..	..	..
			Total	1,133	43,098	..
			Total, Extensions and Improvements and Maintenance and Repairs.	1,133	48,519	..
			IV. ESTABLISHMENT	433	19,294	..
			V. TOOLS AND PLANT	7	290	..
			VI. REFUNDS OF REVENUE	..	..	400
			Deduct—Recoveries on Revenue account.	..	..	..
			Total, Direct Charges	1,573	67,703	..
			Share of collection charges in the Civil Department.	248	3,966	..
			Indirect charges	11	1,743	..
			Total, Direct and Indirect charges	1,832	73,412	..
			Balance, net revenue	3,171	6,710	..
			Grand Total	5,003	80,122	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

BHAVANASI TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936-1937 ..	2,09,502	Net revenue realized to end of 1936-1937 ..	3,539
* Total interest charges for the year 1937-1938 ..	11,066	Net revenue realized during 1937-1938 ..	3,171
		Balance, net interest charges ..	2,13,858
Total ..	2,20,568	Total ..	2,20,568
* Interest at 4.35 per cent on Rs. 2,54,395 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938 ..			11,066
Total ..			11,066

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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 ..	..	11,096
REVENUE—		
Capitalization of abatement of land revenue ..	..	1,282
Leave and pension allowances ..	..	461
Audit and accounts ..	11	
Total ..	11	1,743
Grand Total ..	11	12,839

ADMINISTRATIVE ACCOUNTS FOR THE YEAR
1937-38

MADRAS PRESIDENCY.

BHAVANASI 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.	
Direct Charges.							
Works ..	1,82,434	3,445	1,85,879	..	..	..	1,85,879
Establishment ..	41,653	1,450	43,103	..	..	..	43,103
Tools and plant ..	25,660	50	25,710	..	..	..	25,710
Suspense account ..	..	..	..	..	..	..	..
Total ..	2,49,747	4,945	2,54,692	..	..	..	2,54,692
Less—Receipts on Capital account.	166	131	297	..	..	..	297
Net Total ..	2,49,581	4,814	2,54,395	..	..	..	2,54,395
Indirect Charges.							
Capitalized abatement of land revenue ..	5,027	..	5,027	..	..	..	5,027
Leave and pension allowances ..	5,831	203	6,034	..	..	..	6,034
Audit and accounts ..	..	35	35	..	..	..	35
Total ..	10,858	238	11,096	..	..	..	11,096
Grand Total ..	2,60,439	5,052	2,65,491	..	..	..	2,65,491

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.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

YELLANUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1937–1938.

[Vide details on page 243 of the Administrative Accounts for 1934–35.]

YELLANUR TANK—*Tank Project—cont.*

No. 3.—Revenue Account for and to end of 1937–1938.

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—		
6. Receipts from other canal produce.			(1) Head works		
Recoveries of expenditure	1	1	(2) Main canals and branches		19
9. Rents of buildings			(3) Distributaries		
11. Miscellaneous			(4) Drainage and protective works		
			(5) Special tools and plant		19
Total, Revenue realized in Public Works Department	1	1	Total		
Irrigation—Revenue realised in Civil Department	2,143	47,611	II. MAINTENANCE AND REPAIRS—		
	2,144	47,612	(1) Head works	501	6,352
Total, Direct Receipts			(2) Main canals and branches		3,840
II. INDIRECT RECEIPTS—			(3) Distributaries		242
Share of land revenue collected in the Civil Department	1,104	12,815	(4) Drainage and protective works		27
			(5) Special tools and plant		
Total, Public Works and Civil Departments—Revenue	3,248	60,427	Total	501	10,461
			Total, Extensions and Improvements and Maintenance and Repairs	501	10,480
			IV. ESTABLISHMENT	333	4,023
			V. TOOLS AND PLANT	1	37
			VI. REFUNDS OF REVENUE		
			Total, Direct Charges	835	14,540
			Share of collection charges in the Civil Department	138	2,625
			Indirect charges	5	285
			Total, Direct and Indirect Charges	978	17,450
			Balance, net revenue	2,270	42,977
Total, Receipt	3,248	60,427	Grand Total	3,248	60,427

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

YELLANUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937 ..	2,09,573	Net revenue realized to end of 1936–1937 ..	40,707
Total interest charges for the year 1937–1938—		Net revenue realized during 1937–1938 ..	2,270
Interest at 4.35 per cent on Rs. 2,39,192 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938.	10,405	Balance, net interest charges.	1,77,001
Total ..	2,19,978	Total ..	2,19,978

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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 ..	5	100
Total ..	5	285
Grand Total ..	5	30,800

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–38.

MADRAS PRESIDENCY.

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 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 ..	2,30,570	8,965	2,39,535	..	..	..	2,39,535
Less—Receipts on Capital account.	..	343	343	..	..	..	343
Net Total ..	2,30,570	8,622	2,39,192	..	..	..	2,39,192
Indirect Charges.							
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.

PANJAPATTI RESERVOIR—*Tank Project*.

No. 2.—Capital Account for and to end of 1937–1938.
[Vide details on page 247 of the Administrative Accounts
for 1934–35]

PANJAPATTI RESERVOIR—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

Receipts.	TOTAL.		Charges.	TOTAL.	
	During the year.	To end of the year.		During the year.	To end of the year.
I. DIRECT RECEIPTS—					
5. Receipts from plantations	..	..	I. EXTENSIONS AND IMPROVEMENTS—		
6. Receipts from other canal produce	..	920	(1) Head works	..	1,594
9. Rents of buildings	..	51	(2) Main canals and branches	..	..
11. Miscellaneous	..	108	(3) Distributaries	..	..
			(4) Drainage and protective works.	..	..
			(5) Special tools and plant ..	..	..
Total, Revenue realized in Public Works Department	..	1,079	Total ..	..	1,594
Irrigation revenue realized in Civil Department	..	8,393	II. MAINTENANCE AND REPAIRS—		
			(1) Head works	..	4,027
			(2) Main canals and branches	..	433
			(3) Distributaries	..	446
			(4) Drainage and protective works.	..	..
			(5) Special tools and plant ..	..	..
			Total ..	..	4,906
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

PANJAPATTI RESERVOIR—*Tank Project*—cont.

No. 4.—Indirect Account for and to end of 1937-1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936-37 ..	2,62,892	Net revenue realized to end of 1936-37.	4,997
Total interest charges for the year 1937-38—		Net revenue realized during 1937-38.	..
Interest at 4.35 per cent on Rs. 3,27,781 representing outlay to end of 1936-37 plus half the outlay during 1937-38.	14,258	Balance, net interest charges	2,72,153
Total ..	<u>2,77,150</u>	Total ..	<u>2,77,150</u>

No. 5.—Accounts of Indirect Charges for and to end of 1937-1938.

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 ..	..	<u>11,495</u>
REVENUE—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances	..	23
Audit and account	..	64
Total ..	..	<u>87</u>
Grand Total ..	..	<u>11,583</u>

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. 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>							
Works ..	2,24,998	..	2,24,998	..	..	..	2,24,998
Establishment ..	43,411	..	43,411	..	..	..	43,411
Tools and plant ..	60,075	..	60,075	..	..	..	60,075
Suspense account ..	..	..	..	..	..	..	..
Total ..	3,28,484	..	3,28,484	..	..	..	3,28,484
<i>Less—Receipts on Capital Account.</i>							
Net Total ..	703	..	703	..	..	..	703
	3,27,781	..	3,27,781	..	..	..	3,27,781
<i>Direct Charges.</i>							
Capitalized abatement of land revenue ..	5,396	..	5,396	..	..	..	5,396
Leave and pension allowances ..	6,077	..	6,077	..	..	..	6,077
Audit and accounts ..	22	..	22	..	..	..	22
Total ..	11,495	..	11,495	..	..	..	11,495
Grand Total ..	3,39,276	..	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 1937–1938.

[Vide details on page 251 of the Administrative Accounts
for 1934–35.]SIDDAPUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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—			
5. Receipts from plantations ..	..	..	(1) Head works ..	..	..	..
6. Receipts from other canal produce.	..	..	(2) Main canals and branches ..	..	..	..
			(3) Distributaries ..	150	..	264
			(4) Drainage and protective works.	..	..	2,582
			(5) Special tools and plant ..	..	..	..
11. Miscellaneous ..	..	..	Total ..	150	..	2,846
Total, Revenue realized in Public Works Department ..	..	..		600	..	12,877
Irrigation Revenue realized in Civil Department ..	4,285	42,236	II. MAINTENANCE AND REPAIRS—	..	..	1,108
Total, Direct Receipts ..	4,285	42,236	(1) Head works ..	..	..	..
			(2) Main canals and branches ..	..	..	..
II. INDIRECT RECEIPTS—			(3) Distributaries ..	..	..	..
Share of land revenue collected in the Civil Department ..	..	..	(4) Drainage and protective works.	..	..	..
Total, Public Works and Civil Departments, Revenue ..	4,285	42,236	(5) Special tools and plant ..	..	..	..
			Total ..	600	..	13,985
				750	..	16,831
			Total, Extensions and Improvements and Maintenance and Repairs ..	458	..	6,334
			IV. ESTABLISHMENT ..	2	..	89
			V. TOOLS AND PLANT ..	..	..	..
			VI. REFUNDS OF REVENUE ..	..	..	..
			Total, Direct Charges ..	1,210	..	23,254
			Share of collection charges in the Civil Department ..	214	..	2,113
			Indirect Charges ..	8	..	622
			Total, Direct and Indirect Charges.	1,432	..	25,989
			Balance, net revenue ..	2,853	..	16,247
Total ..	4,285	42,236	Grand Total ..	4,285	..	42,236

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SIDDAPUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937 ..	6,29,734	Net revenue realized to end of 1936–1937 ..	13,394
Total interest charges for the year 1937–1938—		Net revenue realized during 1937–1938 ..	2,853
		Balance, net interest charges	6,47,897
Interest at 4.35 per cent on Rs. 7,91,038 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 ..	34,410		
Total ..	6,64,144	Total ..	6,64,144

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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 ..	..	13,448
REVENUE—		
Capitalization of abatement of land revenue	..	..
Leave and pension allowances	..	466
Audit and accounts	8	156
Total ..	8	622
Grand Total ..	8	14,070

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MADRAS PRESIDENCY.

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. 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>							
Works ..	5,35,737	12,986	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 ..	8,14,491	23,011	7,91,480	..	..	..	7,91,480
Less—Receipts on capital account.	295	147	442	..	..	..	442
Net Total ..	8,14,196	23,158	7,91,038	..	..	..	7,91,038
<i>Indirect Charges.</i>							
Capitalized abatement of land revenue ..	..	..	..	..	..	..	..
Leave and pension allowances ..	14,861	1,386	13,475	..	..	..	13,475
Audit and accounts ..	..	27	27	..	..	..	27
Total ..	14,861	1,413	13,448	..	..	..	13,448
Grand Total ..	8,29,057	24,571	8,04,486	..	..	..	8,04,486

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.

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project*.

No. 2.—Capital Account for and to end of 1937–1938.

[Vide details on page 255 of the Administrative Accounts for 1934–35.]

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

S.	TOTAL.		Charges.		TOTAL.	
	During the year.	To end of the year.	RS.	RS.	During the year.	To end of the year.
II. DIRECT RECEIPTS—						
6. Receipts from other canal produce.	..	..	..	..	..	..
9. Rents of buildings ..	..	..	..	..	..	..
11. Miscellaneous Recoveries of expenditure ..	..	..	2	..	804	3,283
Total, Revenue realized in Public Works Department ..	..	..	2	..	..	..
Irrigation Revenue realized in Civil Department ..	1,385	..	..	..	804	3,283
Total, Direct Receipts ..	1,387	..	..	..	804	3,283
I. INDIRECT RECEIPTS—						
Share of Land Revenue collected in the Civil Department ..	1,017	..	..	..	804	3,283
Total, Public Works and Civil Departments, Revenue ..	2,404	..	..	..	425	1,223
Total, Receipts ..	2,404	..	..	..	2	6
CHARGES.						
I. EXTENSIONS AND IMPROVEMENTS—						
(1) Head works ..	..	..	..	..	..	..
(2) Main canals and branches ..	..	..	..	..	..	..
(3) Distributaries ..	..	..	..	..	..	..
(4) Drainage and protective works ..	..	..	..	..	..	..
(5) Special tools and plant ..	..	..	..	..	..	..
II. MAINTENANCE AND REPAIRS.						
(1) Head works ..	..	..	..	..	..	..
(2) Main canals and branches ..	..	..	..	..	..	..
(3) Distributaries ..	..	..	..	..	..	..
(4) Drainage and protective works ..	..	..	..	..	..	..
(5) Special tools and plant ..	..	..	..	..	..	..
Add—Unclassifiable outlay ..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..
Total, Extensions and Improvements and Maintenance and Repairs ..	28,469	..	..	..	804	3,283
IV. ESTABLISHMENT ..	..	..	..	..	804	3,283
V. TOOLS AND PLANT ..	..	..	..	..	425	1,223
VI. REFUNDS OF REVENUE ..	..	..	..	..	2	6
Total, Direct Charges ..	28,529	..	..	..	..	..
Share of collection charges in the Civil Department ..	..	..	..	..	1,231	4,512
Indirect Charges ..	2,039	..	..	..	77	1,481
Total, Direct and Indirect Charges. Balance, net revenue ..	30,568	..	..	..	8	32
Grand Total ..	30,568	..	..	..	1,316	6,025
	2,404	..	..	..	1,088	24,543
	2,404	..	..	..	2,404	30,568

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937 ..	85,306	Not revenue realized to end of 1936-1937 ..	23,455
Total interest charges for the year 1937-1938 ..	4,667	Net revenue realized during 1937-1938 ..	1,088
		Balance, net interest charges ..	65,430
Total ..	<u>89,973</u>	Total ..	<u>89,973</u>
* Interest at 4.35 per cent on Rs. 1,07,295 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938			4,667
		Total ..	<u>4,667</u>

* Interest at 4.35 per cent on Rs. 1,07,295 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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 ..	..	2,595
REVENUE—		
Audit and accounts	8	32
Total ..	8	32
Grand Total ..	8	2,627

**ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.**

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.
Direct Charges.							
Works	88,757	..	88,757	..	..	..	88,757
Establishment	18,538	..	18,538	..	..	..	18,538
Tools and plant	..	..	..	..	..	..	..
Suspense account	..	..	..	..	..	..	..
Total	1,07,295	..	1,07,295	..	..	..	1,07,295
Less—Receipts on capital account.	..	..	..	..	..	..	..
Net total	1,07,295	..	1,07,295	..	..	..	1,07,295
Indirect Charges.							
Capitalized abatement of land	..	..	..	..	..	..	..
Revenue	2,595	..	2,595	..	..	..	2,595
Leave and pension allowances	..	..	..	..	..	..	..
Total	2,595	..	2,595	..	..	..	2,595
Grand Total	1,09,890	..	1,09,890	..	..	..	1,09,890

The construction estimate of the project was closed on 31st December 1919 and the completion report approved in G.O. No. 53 J., dated 14th February 1921.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MOPAD PROJECT—Canal Project.

No. 2.—Capital Account for and to end of 1937–1938.

Heads of account.	DIRECT CHARGES.		Cost of construc- tion as now estimated.
	During the year.	To end of the year.	
	RS.	RS.	RS.
I. Works—			
(1) Head works	..	13,96,753	13,96,753
(2) Main canals and branches	54	3,15,442	3,15,541
(3) Distributaries	..	26,541	26,541
(6) Special tools and plant	..	71,520	71,520
Total, Works	54	16,67,216	16,67,315
II. Establishment	16	3,20,610	3,20,582
III. Tools and plant	..	2,34,214	2,34,228
Grand Total	70	22,22,040	22,22,125
V. Less—receipts on capital account	..	27,894	27,894
Net outlay in India and England.	70	21,94,146	21,94,231

MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938.

MOPAD PROJECT—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937–1938.

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	..	68	(1) Head works	..	3,169
5. Plantations	..	19	(2) Main canals and branches	..	26,961
6. Receipts from other canal produce.	..	242	(3) Distributaries	1,430	3,564
9. Rent of buildings	..	1,887	(4) Drainage and protective works.	..	..
II. Miscellaneous	..	2,961	(5) Special tools and plant	..	33,694
Recoveries of expenditure	..	659	Total	1,430	..
Deduct—Refunds	..	136	II. MAINTENANCE AND REPAIRS—		
Total, Revenue realized in the Public Works Department	123	5,700	(1) Head works	2,334	44,650
Irrigation Revenue realized in Civil Department	36,606	4,47,887	(2) Main canals and branches	2,514	47,628
Total, Direct Receipts	36,729	4,53,587	(3) Distributaries	1,376	27,010
II. Indirect Receipts—Shares of Revenue collected in the Civil Department.	5,170	76,706	(4) Drainage and protective works.	..	..
Total, Public Works and Civil Departments, Revenue	41,899	5,30,293	(5) Special tools and plant	..	..
			Total	6,224	1,19,288
			Total, Extensions and Improvements and Maintenance and Repairs	7,654	1,52,982
			IV. ESTABLISHMENT	3,002	53,078
			V. TOOLS AND PLANT	44	901
			VI. RECOVERIES ON REVENUE ACCOUNT.	..	16
			Total, Direct Charges	10,700	2,06,945
			Share of collection charges in the Civil Department	1,863	22,653
			Indirect charges	77	2,657
			Total, Direct and Indirect Charges	12,640	2,32,255
			Balance, net revenue	29,259	2,98,038
Total, Receipts	41,899	5,30,293	Grand Total	41,899	5,30,293

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MOPAD PROJECT—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936-1937 ..	19,15,385	Net revenue realized to end of 1936-1937 ..	2,68,779
*Total interest charges for the year 1937-1938 ..	95,444	Net revenue realized during 1937-1938 ..	29,259
		Balance, net interest charges.	17,12,791
Total ..	20,10,829	Total ..	20,10,829
*Interest at 4.35 per cent on Rs. 21,94,111 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938 ..			
	95,444		
Total ..	95,444		

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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 ..	..	1	125
Total ..	1		96,429
REVENUE—			
Capitalization of abatement of land revenue ..	..	..	..
Leave and allowances ..	..	..	1,126
Audit and accounts ..	..	77	1,531
Total ..	77		2,657
Grand Total ..	78		99,086

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direct Charges.							
Works ..	16,66,575	..	16,66,575	641	740	99	16,67,216
Establishment ..	3,20,381	..	3,20,381	229	201	28	3,20,610
Tools and plant ..	2,34,213	..	2,34,213	1	15	14	2,34,214
Suspense account ..	..	..	..	..	..	..	..
Total ..	22,21,169	..	22,21,169	871	956	85	22,22,040
Less—Receipts on capital account.	27,894	..	27,894	..	..	..	27,894
Net Total ..	21,93,275	..	21,93,275	871	956	85	21,94,146
Indirect Charges.							
Capitalized abatement of land revenue ..	51,698	..	51,698	..	..	..	51,698
Leave and pension allowances ..	44,856	..	44,856	..	..	..	44,856
Audit and accounts ..	132	..	132	7	7	..	125
Total ..	96,422	..	96,422	7	7	..	96,429
Grand Total ..	22,89,697	..	22,89,697	878	963	85	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 1937-1938.

[Vide details on page 263 of the Administrative Accounts for 1934-35.]

KANNIYAMPALAYAM ANICUT—*Tank Project—cont.*

No. 3.—Revenue Account for and to end of 1937-1938.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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	56,000	(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	56,003	Total	..	248
Irrigation Revenue realized in Civil Department	169	169	II. MAINTENANCE AND REPAIRS—		
			(1) Head works	648	42,287
Total, Direct receipts	4,169	56,172	(2) Main canals and branches	..	..
II. Indirect receipts—Share of Land Revenue collected in the Civil Department	..	..	(3) Distributaries	..	..
			(4) Drainage and protective works	..	..
Total, Public Works and Civil Departments, Revenue	4,169	56,172	(5) Special tools and plant	..	..
			<i>Add—Unclassifiable outlay</i>	..	..
Total	4,169	56,172	Total	648	42,287
			Total, Extensions and Improvements and Maintenance and Repairs	648	42,535
			IV. ESTABLISHMENT	180	11,316
			V. TOOLS AND PLANT	2	535
			VI. REFUNDS AND REVENUE	..	..
			Total, Direct charges	830	54,385
			Share of collection charges in the Civil Department	9	9
			Indirect charges	6	1,002
			Total, Direct and Indirect charges	845	55,386
			Balance, Net revenue	3,324	776
			Grand Total	4,169	56,172

KANNIYAMPALAYAM ANICUT—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1937–1938.

Amount.	Amount.
RS.	RS.
Total interest charges to end of 1936–1937 ..	1,06,904
* Total interest charges for the year 1937–1938.	4,664
Total ..	1,11,568
* Interest at 4.35 per cent on Rs. 1,07,221 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 ..	4,664
Total ..	4,664

No. 5.—Account of indirect charges for and to end of 1937–38.

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 ..	..	3,787
	..	66
Total ..	..	3,853
REVENUE—		
Capitalization of abatement of land revenue ..	..	..
Leave and pension allowances ..	..	..
Audit and accounts ..	6	576
	..	426
Total ..	6	1,002
Grand Total ..	6	4,855

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.	Charges to date.	Amount of sanctioned estimate.	
	RS.	RS.			RS.
Direct Charges.					
Works ..	92,266	5,125	..	..	97,391
Establishment ..	25,172	1,863	..	..	27,035
Tools and plant ..	453	42	..	..	495
Suspense account ..	..	..	..	..	..
Total ..	1,17,891	7,030	..	..	1,24,921
Less—Receipts on capital account.	..	17,700	..	..	17,700
Net Total ..	1,17,891	— 10,670	..	..	1,07,221
Indirect Charges.					
Capitalized abatement of land revenue ..	..	262	..	..	3,787
Leave and pension allowances ..	3,525	51	..	..	66
Audit and accounts ..	15	..	..	..	..
Total ..	3,540	313	..	..	3,853
Grand Total ..	1,21,431	— 10,357	..	..	1,11,074

The construction estimate of the project was closed on 31st March 1922 and the completion report approved in G.O. No. 190 I., dated 31st March 1926.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

THIPPAYAPALEM PROJECT—*Tank Project*.

No. 2.—Capital Account for and to end of 1937–1938.

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	98	1,08,525	1,13,070
K. Buildings	2,296	7,026	7,703
L. Earthwork	1,10,529	2,40,975	2,59,070
O. Miscellaneous	579	2,679	21,512
Unforeseen works	..	14,487	..
Total	1,13,502	4,08,938	4,36,600
(2) <i>Main Canals and Branches—</i>			
L. Earthwork	1,191	26,401	..
Miscellaneous	..	..	31,000
Total	1,191	26,401	31,000
(3) <i>Distributaries—</i>			
C. Works	..	..	..
L. Earthwork	..	..	..
O. Miscellaneous	..	..	..
Total	..	..	..
(6) <i>Special tools and plant</i>	..	..	..
Total, Works	1,14,693	4,35,339	4,67,600
II. ESTABLISHMENT	57,613	1,28,132	1,27,596
III. TOOLS AND PLANT	264	957	9,352
Grand Total	1,72,570	5,64,428	6,04,548
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT</i>	..	656	..
Net outlay in India and England	1,72,570	5,63,772	6,04,548

MADRAS PRESIDENCY.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937–1938THIPPAYAPALEM PROJECT—*Tank Project—cont.*

No. 4.—Interest Accounts for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–37.	82,598	Net revenue realized to end of 1936–37.	..
Total interest charges for the year 1937–38.		Net revenue realized during 1937–38.	..
Interest at 4.35 per cent on Rs. 4,77,487 representing outlay to end of 1936–37 plus half the outlay during 1937–38.	20,771	Balance, net interest charges.	1,03,369
Total	1,03,369	Total	1,03,369

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

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	1,147	4,356
Total	1,147	11,963
REVENUE—		
Capitalization of abatement of land revenue	..	..
Leave and pension allowances	..	..
Audit and accounts	..	..
Total	..	..
Grand Total	1,147	11,963

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PUBLIC WORKS DEPARTMENT.

THIPPAYAPALEM PROJECT—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 sanctions.	Charges to date.	Amount of sanctioned estimate.	
	RS.	RS.	RS.	RS.	
<i>Direct Charges.</i>					
Works	..	..	4,35,339	4,67,600	32,261
Establishment	..	..	1,28,132	1,27,596	— 536
Tools and plant	..	..	957	9,352	8,395
Suspense account	..	..	..	..	..
Total	..	..	5,64,428	6,04,548	40,120
<i>Less—Receipts on Capital account.</i>	..	..	656	..	— 656
Net Total	..	..	5,63,772	6,04,548	40,776
<i>Indirect Charges.</i>					
Capitalized abatement of land revenue.	..	..	4,919	17,800	12,881
Leave and pension allowances	..	..	2,688	..	— 2,688
Audit and accounts	..	..	4,356	4,676	320
Total	..	..	11,963	22,476	10,513
Grand Total	..	..	5,75,735	6,27,024	51,289

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

BASAVANNAH CHANNEL.

No. 2.—Capital Account for and to end of 1937-1938.

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>			
C. Works	25	14,055	14,030
Total	25	14,055	14,030
(2) <i>Main Canals and Branches—</i>			
B. Land	..	21,730	21,730
C. Works	..	95,659	98,406
F.o(1) Other cross drainage works.	..	..	..
L. Earthwork	1,643	2,92,433	2,91,714
O. Miscellaneous	..	7,148	8,290
P. Maintenance	— 205	6,307	..
Total	1,438	4,23,277	4,20,140
(3) <i>Distributaries—</i>			
L. Earthwork	547	28,417	34,555
B. Land	..	814	..
Total	547	29,231	34,555
Total, Works	2,010	4,66,563	4,68,725
II. ESTABLISHMENT	1,010	1,10,708	1,13,706
III. TOOLS AND PLANT	5	2,195	3,092
Grand Total	3,025	5,79,466	5,85,523
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	..	..	..
Net outlay in India and England	3,025	5,79,466	5,85,523

BASAVANNAH CHANNEL—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

IRRIGATION BRANCH.

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 ..	269	269		
6 Receipts from other canal produce ..	269	269		
11 Miscellaneous ..	..	..		1,982
Recoveries of expenditure ..	..	..		..
Deduct—Refunds ..	..	..		..
Total, Revenue realized in Public Works Department ..	269	269		1,982
II. INDIRECT RECEIPTS—				
Share of land revenue collected in the Civil Department ..	..	..		..
Total, Direct Receipts ..	269	269		..
Charges.				
I. EXTENSIONS AND IMPROVEMENTS—				
(1) Headworks ..	..	..		..
(2) Main canals and branches ..	..	..		..
(3) Distributaries ..	..	..		..
(4) Drainage and protective works ..	..	..		..
(5) Special tools and plant ..	..	..		..
Total ..	..	..		1,982
II. MAINTENANCE AND REPAIRS—				
(1) Headworks ..	..	..	10,005	10,005
(2) Main canals and branches ..	..	..	..	40,312
(3) Distributaries ..	..	..	..	..
(4) Drainage and protective works ..	..	..	..	..
(5) Special tools and plant ..	..	..	..	..
Add—Unclassifiable outlay ..	..	..	..	..
Total ..	..	..	10,005	50,317

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PUBLIC WORKS DEPARTMENT.

Total, Extensions and Improvements and Maintenance and Repairs ..	10,005	52,299
IV. ESTABLISHMENT ..	5,026	13,246
V. TOOLS AND PLANT ..	23	80
VI. REFUNDS OF REVENUE ..	..	..
Total, Direct Charges ..	15,054	65,625
Share of collection charges in the Civil Department ..	..	..
Indirect charges ..	100	523
Total, Direct and Indirect Charges. Balance, net revenue.	15,154	66,148
Grand Total ..	15,154	66,148

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

BASAVANNAH CHANNEL—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936-1937 ..	2,37,136	Net revenue realized to end of 1936-1937 ..	50,994
* Total interest charges for the year 1937-1938 ..	25,141	Net revenue realized during 1937-1938 ..	14,885
		Balance, net interest charges ..	3,28,156
Total ..	2,62,277	Total ..	2,62,277
* Interest at 4.35 per cent on Rs. 5,77,954 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938 ..			
	25,141		

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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 ..	20	4,665
Total ..	20	6,555
REVENUE—		
Leave and pension allowances ..	100	523
Audit and accounts ..	..	..
Total ..	100	523
Grand Total ..	120	7,078

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.	Amount of sanctioned estimate.	
	RS.	RS.	RS.	RS.	RS.
Direct Charges.					
Works					
Establishment ..	..	..	4,66,563	4,68,725	2,162
Tools and plant ..	..	..	1,10,708	1,13,706	2,998
Suspense account ..	..	..	2,195	3,092	897
Total ..	..	..	5,79,466	5,85,523	6,057
Less—Receipts on capital account.					
Net Total ..	..	..	5,79,466	5,85,523	6,057
Indirect Charges.					
Capitalized abatement of land revenue.	..	..	1,229	1,229	..
Leave and pension allowances ..	..	..	661	661	..
Audit and accounts ..	..	..	4,665	4,687	22
Total ..	..	..	6,555	6,577	22
Grand Total ..	..	..	5,86,021	5,92,100	6,079

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

DUVVALERU PROJECT—Manal Project.

No. 2.—Capital Account for and to end of 1937-1938.

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	1,282	38,800
K. Buildings ..	..	..	5,000
O. Miscellaneous ..	..	..	3,285
Total ..	1,282	1,282	47,085
(2) <i>Main Canals and Branches—</i>			
A. Preliminary expenses ..	195	251	3,623
B. Land ..	34	34	1,710
D. Regulators ..	..	..	330
E. Falls and weirs ..	..	..	2,400
F. River and hill torrent works ..	..	..	8,500
C. Bridges ..	..	..	4,030
H. Escapes ..	..	..	1,120
L. Earthwork ..	425	425	41,610
O. Miscellaneous ..	..	..	4,368
Total ..	654	710	67,691
(5) <i>Water courses—</i>			
L. Earthwork ..	..	..	1,724
Total ..	..	..	1,724
Total works ..	1,936	1,992	1,16,500
II. Establishment ..	972	987	31,790
III. Tools and plant ..	4	4	2,330
IV. Suspense ..	..	..	..
V. Less receipts on capital account ..	..	..	..
Net outlay in India and England ..	2,912	2,983	1,50,620

DUVVALERU PROJECT—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1936-1937 ..	2	Net revenue realized to end of 1936-1937 ..	..
*Total interest charges for the year 1937-1938 ..	66	Net revenue realized during 1937-1938 ..	..
		Balance, not interest charges.	68
Total ..	68	Total ..	68
*Interest at 4.35 per cent on Rs. 1,527 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938 ..	66		
Total ..	66		

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

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	19	20
Total ..	19	20

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.	
Direct Charges.							
Works ..	..	..	..	1,992	1,16,500	1,14,508	..
Establishment ..	..	..	..	987	31,790	30,803	..
Tools and plant ..	..	..	..	4	2,330	2,326	..
Total ..	..	..	..	2,983	1,50,620	1,47,637	..
Less—Receipts on capital account..	..	..	..	..	..	..	..
Net Total ..	..	..	..	2,983	1,50,620	1,47,637	..
Indirect Charges.							
Capitalized abatement of land revenue ..	..	..	..	..	290	290	..
Leave and pension allowances ..	..	..	..	20	1,165	1,145	..
Audit and accounts ..	..	..	..	20	1,455	1,435	..
Total ..	..	..	..	3,003	1,52,075	1,49,072	..
Grand Total ..	..	..	..				

VEDARANNIYAM CANAL—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

[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 1937-1938.

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 ..	7	1,882	(1) Head works ..	..	..
6. Receipts from other canal produce. ..	..	677	(2) Main canals and branches ..	..	11,471
8. Navigation receipts ..	688	49,389	(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
Deduct—Refunds ..	5	499			
Total revenue realized in the Public Works Department ..	690	52,130	II. MAINTENANCE AND REPAIRS—		
Total, Direct receipts ..	690	52,130	(1) Head works ..	..	..
Total, Public Works and Civil Departments, Revenue ..	690	52,130	(2) Main canals and branches ..	4,022	2,94,559
			(3) Distributaries ..	10	499
			(4) Drainage and protective works ..	984	14,325
			(5) Special tools and plant ..	..	53
			Total ..	5,016	3,09,436
			Total, Extensions and Improvements and Maintenance and Repairs ..	5,016	3,21,910
			IV. ESTABLISHMENT ..	2,310	94,447
			V. TOOLS AND PLANT ..	12	8,262
			VI. REFUNDS OF REVENUE ..	..	41
			Total, Direct Charges ..	7,338	4,24,660
			Share of collection charges in the Civil Department ..	..	..
			Indirect charges ..	50	9,657
			Total, Direct and Indirect Charges ..	7,388	4,34,317
			Balance, net revenue ..	..	..
			Grand Total ..	7,388	4,34,317
Net deficit, if any ..	6,698	3,82,187			
Total ..	7,388	4,34,317			

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

MADRAS PRESIDENCY.

VEDARANNIYAM CANAL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937–1938.

	Amount. RS.		Amount. RS.
Total interest charges to end of 1936–1937 ..	3,44,341	Net revenue realized to end of 1936–1937 ..	— 3,75,489
* Total interest charges for the year 1937–1938 ..	5,772	Net revenue realized during 1937–1938 ..	— 6,698
		Balance, net interest charges.	7,32,300
Total ..	3,50,113	Total ..	3,50,113
* Interest at 4.35 per cent on Rs. 1,32,699 representing outlay to end of 1936–1937 plus half the outlay during 1937–1938 ..			
	5,772		
Total ..	5,772		

No. 5.—Account of Indirect Charges for and to end of 1937–1938.

Particulars.	During the year.	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 ..	50	1,379
Total ..	50	9,657
Grand Total ..	50	13,390

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. RS.
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Charges to date.	Amount of sanctioned estimate.	
Direct Charges.	RS.	RS.			RS.
Works Establishment ..	1,07,885	..	..	..	1,07,885
Tools and plant ..	24,814	..	..	..	24,814
Suspense account ..	..	..	..	..	..
Total ..	1,32,699	..	..	..	1,32,699
Less—Receipts on capital account.	..	..	..	..	..
Net Total ..	1,32,699	..	..	..	1,32,699
Indirect Charges.					
Capitalized abatement of land revenue ..	..	259	..	..	259
Leave and pension allowances ..	..	..	..	..	3,474
Total ..	..	259	..	..	3,733
Grand Total ..	..	259	..	..	1,36,432

The construction estimate of the project was closed on 31st March 1993.

BUCKINGHAM CANAL—Canal Project.

No. 2.—Capital Account for and to end of 1937-1938.

[Vide details on page 282 of the Administrative Accounts for 1934-1935.]

BUCKINGHAM CANAL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1937-1938.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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	(1) Head works .. .. .	.. .. .	.. .. .
5. Receipts from plantations .. .. .	.. .. .	38	(2) Main canals and branches	2,050	1,93,315
6. Receipts from other canal produce.	.. .. .	.. .. .	(3) Distributaries .. .. .	.. .. .	1,016
			(4) Drainage and protective works .. .. .	.. .. .	72
			(5) Special tools and plant .. .. .	.. .. .	.. .. .
			Total	2,050	1,94,403
8. Navigation receipts .. .. .	.. .. .	1,01,706	II. MAINTENANCE AND REPAIRS—		
9. Rents of buildings .. .. .	.. .. .	500	(1) Head works .. .. .	.. .. .	21,709
10. Fines .. .. .	.. .. .	.. .. .	(2) Main canals and branches	2,11,635	73,33,363
11. Miscellaneous .. .. .	.. .. .	1,536	(3) Distributaries .. .. .	.. .. .	1,49,607
Recoveries of expenditure .. .. .	.. .. .	.. .. .	(4) Drainage and protective works	1,143	1,36,391
			(5) Special tools and plant .. .. .	.. .. .	3,125
			Add—Unclassifiable outlay .. .. .	.. .. .	2,88,470
			Total	2,12,778	79,31,965
Deduct—Refunds .. .. .	.. .. .	19	Total, Extensions and Improvements and Maintenance and Repairs	2,14,828	81,26,068
Receipts for which classification is not obtainable .. .. .	.. .. .	.. .. .	IV. ESTABLISHMENT	34,435	22,12,676
Total revenue realized in the Public Works Department	1,05,561	63,73,827	V. TOOLS AND PLANT	235	1,48,725
			VI. REFUNDS OF REVENUE .. .. .	.. .. .	22,074
Total, Direct receipts	1,05,561	63,73,827	Deduct—Recoveries on revenue account.	.. .. .	4,115
Total, Public Works and Civil Departments, Revenue	1,05,561	63,73,827	Share of collection charges in the Civil department	2,49,498	1,05,05,428
Net deficit, if any	1,46,085	43,95,901	Indirect charges .. .. .	.. .. .	2,64,300
Total	2,51,646	1,07,69,728	Total, Direct and Indirect Charges	2,51,646	1,07,69,728
			Balance, net revenue		
			Grand Total	2,51,646	1,07,69,728

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

BUCKINGHAM CANAL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1937-1938.

Amount.	Amount.
RS.	RS.
Total interest charges to end of 1936-1937 .. 1,76,46,951	Net revenue realized to end of 1936-1937 .. — 42,49,816
Total interest charges for the year 1937-1938—	Net revenue realized during 1937-1938 .. — 1,46,088
Interest at 4.35 per cent on Rs. 85,92,529 representing outlay to end of 1936-1937 plus half the outlay during 1937-1938.=3,73,775	Balance, net interest charges... .. 2,24,16,627
3,73,775	
Total .. 1,80,20,726	Total .. 1,80,20,726

No. 5.—Account of Indirect Charges for and to end of 1937-1938.

Particulars.	During the year.	To end of the year.
	RS.	RS.
CAPITAL—		
Capitalization of abatement of land revenue		2,62,365
Leave and pension allowances		2,26,866
Audit and accounts		233
Total		4,89,464
REVENUE—		
Capitalization of abatement of land revenue		363
Leave and pension allowances		2,27,769
Audit and accounts	2,148	36,168
Total	2,148	2,64,300
Grand Total	2,148	7,53,764

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1937-1938.

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MADRAS PRESIDENCY.

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.	Charges to date.	Amount of sanctioned estimate.	
	RS.	RS.			RS.
Direct Charges.					
Works	66,72,338	1,48,970			68,21,308
Establishment	15,85,806	28,740			16,14,546
Tools and Plant	1,80,720	320			1,81,040
Suspense account					
Total	84,38,864	1,78,030			86,16,894
Less—Receipts on capital account	4,502	19,863			24,365
Net Total	84,34,362	1,58,167			85,92,529
Indirect Charges.					
Capitalized abatement of land revenue	2,62,365				2,62,365
Leave and pension allowances	2,26,866	3,258			2,26,866
Audit and accounts	233	233			233
Total	4,89,464	3,491			4,89,464
Grand Total	89,20,335	1,61,658			90,81,993

The construction estimate of the project was closed in March 1937.

T. S. SUBRAMANIA AYYAR,
Deputy Accountant-General.

MADRAS,
17th October 1938.