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P. W.
Naval (1898) Department.

G.O., No. 958 I

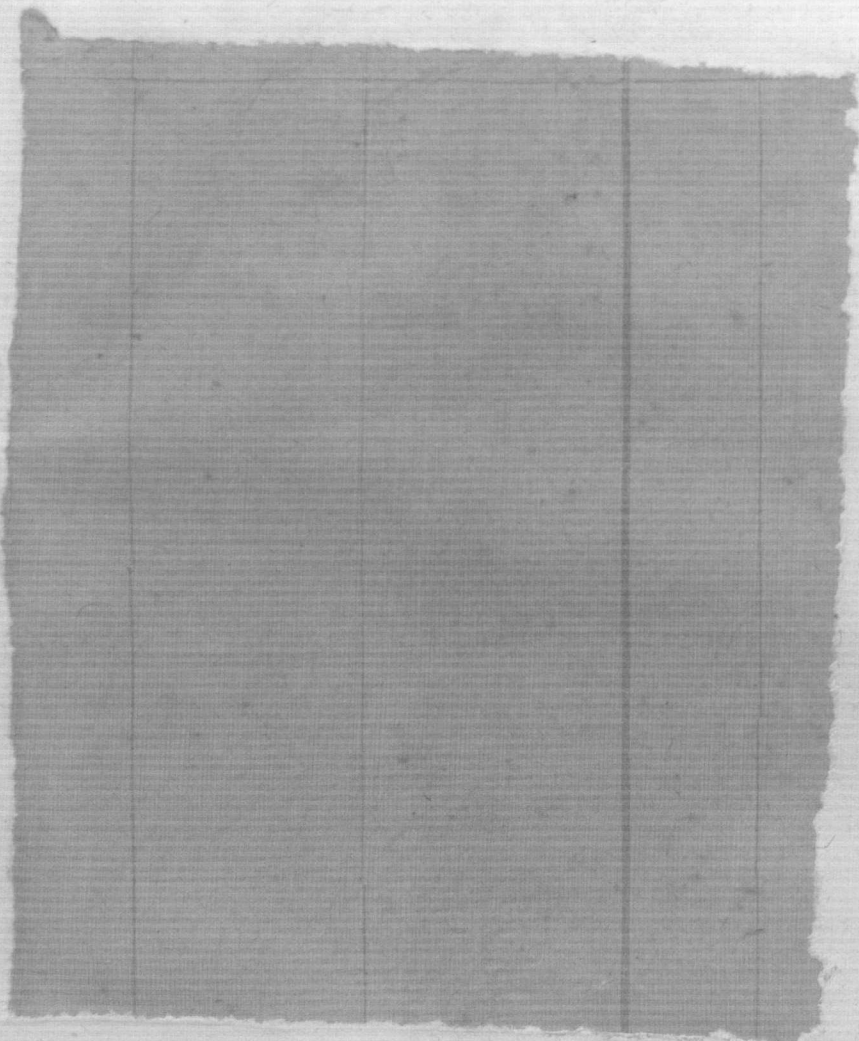
DATED 14th Dec '98

[Despatch Abstract]

Launch Restoration Operations

Under the Chief Engineer, Fr. Immanuel
Reviewing the progress of ———— during the
year 1897-98, included.

14/12



* செப்பனிருபவர் அபயர் *
* (A. அனாசாமி) *
* செப்பனிருவதற்காக எடுத்துக் *
* கொள்ளப்பட்ட நாள் Feb 2003 *
* செப்பனிரு முடிந்த நாள் *
* 08/2003 *
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* ம. பா. ஏ. உதவினாள் *
* கையொப்பம் கையொப்பம் *

IRRIGATION.

958
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Government (1898) of Madras.
PUBLIC WORKS.

Recd.

Udgd.

1898.

Enclosures

Spare copies

G.O., No. 958 I., 14th December 1898.

DECEMBER.

Tank Restoration Operations

Note by the Chief Engineer for Irrigation reviewing the progress of — during the year 1897-98, recorded.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Irrigation.

READ—the following paper:—

No. 2742 T.

Note by the Chief Engineer for Irrigation, Tank Restoration Scheme

The accompanying statements, showing the progress of tank restoration operations during the year 1897-98, are submitted for the information of Government.

2. At the end of the previous year, the area of minor basins entered upon was approximately 40,281 square miles, of which 34,187 square miles had been completely investigated. These figures were increased during the year under review by 650 and 1,827 square miles, respectively, bringing the totals up to 40,931 square miles of area entered upon and 36,014 square miles investigated.

3. The amount of estimates for Government works sanctioned during the year was Rs. 2,23,712 against Rs. 1,82,457 in the previous year. Estimates amounting to Rs. 5,395 for railway affecting zemindari and private tanks were also prepared and sent to the Collectors for execution of the works by the inamdars concerned.

4. The total amount of estimates sanctioned from the commencement of the operations to 31st March 1898 was Rs. 53,89,995, from which has to be deducted Rupees 1,19,403, being the amount of estimates formerly prepared for zemindari works, as explained in paragraph 4 of the Note on the progress of tank restoration operations printed with G.O., No. 208 I., dated 28th March 1890, Rs. 10,089, the amount of estimates prepared under G.O., No. 236 I., dated 9th March 1892, for works in the Yelagirimittah, Salem district, and Rs. 10,300, being the amount of estimates for railway affecting zemindari and private tanks, leaves Rs. 52,50,203 as the amount of estimates sanctioned for Government works.

5. During the year No. 1 Party was engaged in the investigation of Gudur, Manubolu and Kanupur minor basins of the Kandaleru or Venkatagiri river basin in the Nellore district and completed Manubolu and Kanupur with a greater portion of Gudur minor basins. No. 2 Party completed the investigation of Uppodai minor basin and commenced operations in Chittar minor basin in Tinnevely district. No. 3 Party was up to end of the official year 1897-98 engaged in famine-relief works under the orders of the Superintending Engineer, III Circle. No. 4 Party was placed under the orders of the Superintending Engineer, III Circle, for famine duty, and resumed the ordinary tank restoration scheme duties in October last in Hindupur minor basin of Upper Pennéru river basin in Anantapur district. No. 5 Party in the North Arcot district, continued the investigation of Gudiyattam minor basin. No. 6 or special Party, which was placed at the disposal of the Superintending Engineer, III Circle, for employment on famine-relief works at the end of November 1896, has not resumed its work in Ráyachóti taluk, Cuddapah district.

6. Statement B shows the estimated cost of the work of restoration in the basins, the investigation of which is finished or very nearly so; column 4 of the statement shows the actual expenditure on these works.

7. The total expenditure on execution (excluding establishment charges and tools and plant) to the end of March 1898 was Rs. 44,35,977, showing Rs. 8,14,226 as the apparent unexpended balance of estimates available for execution, but the actual balance as given by the Executive Engineers in special statements submitted by them amounts to Rs. 5,98,763. The difference between these two figures is accounted for by the surrender of various savings on such of the estimates as had been worked out and closed.

8. The balance of estimates received but not dealt with on 31st March 1898 was Rs. 2,72,295. This amount added to the approximate balance of sanctioned estimates available for execution as given by Executive Engineers gives Rs. 8,71,058, as the amount by which investigation was ahead of execution at the end of March 1898.

9. The total amount of expenditure (Rs. 44,37,226) given in this note has been obtained from the Examiner, Public Works Accounts, but the amounts of expenditure aggregating to Rs. 44,35,977 entered in column 12 of the larger tabular statement are as given in statements submitted by Superintending Engineers for minor basins.

10. The progress made in the printing of plates and memoirs is as follows:—

Plates previously printed	...	...	...	...	...	...	29
Do. printed during the year	...	...	...	...	...	...	3
Memoirs previously printed	...	...	...	...	...	...	28
Do. printed during the year	...	...	...	...	...	...	7
Plates in press on 31st March 1898	...	...	...	...	...	...	1
Do. under preparation	...	...	...	...	...	...	5
Memoirs in press on 31st March 1898	...	...	...	...	...	...	3
Do. under preparation	...	...	...	...	...	...	...

The arrears in the office under this head are considerable, as plates and memoirs have been published for only about 30 per cent. of the area actually investigated. A re-organization of the office establishment to deal with the arrears of memoirs is now under consideration, whereby it is hoped that all may be cleared off in the next two or three years. The arrears in the plate work are more difficult to deal with, as nothing can be done until a considerable increase in the establishment is sanctioned. In G.O., No. 2849 W., dated 11th October 1907, the Government

In G.O. No. 2849 W., dated 11th October 1907, the posting of a special officer to supervise the tank restoration scheme operations both in the field and at head-quarters was sanctioned, but it was not until the close of the year (February 15th) that an officer was appointed.

21st November 1898.

(Signed) R. N. H. REID,
for Chief Engr. for Irrign., T.R.S.

ENCLOSURES.

STATEMENT showing progress in the Tank Restoration operations (investigation and execution) up to 31st March 1898.

Basin.	Minor Basin.	Area of minor basin.	Approximate area completed.	Progress made in investigation.				Progress made in execution.				Estimates sanctioned and sent for execution up to end of 31st March 1898.	Deduct estimates of zaminidari and private works.	Total estimates handed over to Public Works Department for execution.	Estimates worked out.
				ACS.	No.	Amount.	Number.	Amount.	Number.	Amount.					
Upper Vaigai river.	Periakulam	132	132	Investigations completed; plates and memoirs printed.	57	40,571	1	250	56	40,321	43,028	13,630	53,456		
	Bethandam	298	298	Do.	50	48,792	8	15,197	42	33,595	30,436	64,031	94,467		
	Suruliyar	504	504	Do.	66	1,59,470	4	15,652	56	1,43,818	1,74,500	1,60,866	3,05,366		
	Talavai	266	266	Do.	8	21,689	8	9,784	11	30,473	30,168	60,641	90,810		
	Andipattiy	144	144	Do.	19	40,327	10	46,284	10	46,284	46,271	92,568	138,852		
	Udamapet	400	400	Do.	53	1,38,690	13	4,045	40	1,32,645	1,52,735	1,66,180	3,20,915		
	Pahli	304	304	Do.	8	10,170	1	1,342	2	8,828	8,854	17,656	26,484		
	Upper Amaravati	656	656	Do.	430	2,05,057	1	42	429	2,05,015	1,98,163	4,03,178	5,01,341		
	Dindigul	432	432	Investigations completed.											
	Dharmapuram	250	250	Investigations completed; estimates amounting to Rs. 1,55,200 were prepared, but as the works were found to be beyond the scope of Tank Restoration Scheme, the estimates were sent to the Executive Engineer, Coimbatore Division, for disposal.											
Amaravati river.	Kongayam	180	180	All the works connected with this minor basin are abandoned, and, as there has been no cultivation under them for ten years prior to the minor basin being taken up, they were not investigated.											
	Karur	191	191	Investigations completed; estimates for two channels amounting to Rs. 90,000 were prepared, but as they did not fall within the scope of Tank Restoration Scheme, the estimates were sent to the Executive Engineer, Coimbatore Division, for disposal. Of the remaining works, one is a private work and the rest were found to be unimportant.											
	Mulanur	259	259	Investigations completed; of the 27 works, 25 were found to be unimportant.	1	1,248	1	1,278							
	Lower Kadaganur	250	250	Investigations completed; memoirs are under preparation.	2	25,339			2	25,989	24,415				
	Nonganjur	268	268	Investigations completed; plates and memoirs printed.	114	32,753			114	33,473	32,182				
	Kallatangal	204	204	Do.	11	24,630			11	24,630	23,062				
	Tirumangalam	340	340	Do.	3	11,665			3	11,665	11,069				
	Swankottai	340	340	Investigations completed.	161	2,11,492			161	2,11,192	1,96,117				
	Madurai	134	134	Do.	78	53,669			73	81,359	44,898				
	Sholavandan	316	316	Do.	49	1,22,108			49	1,22,108	127,665				
Upper Thambapond river.	Uppal	320	320	Do.	63	37,111			63	37,111	65,247				
	Chittur	650	650	Investigations are in progress.	39	29,048			39	28,148	6,941				
	Arumansandy	872	872	Investigations completed.	5	4,592			5	4,592	241				
					210	3,16,796	2	1,940	208	3,15,556	2,67,843				

Basin.	Minor Basin.	Area of minor basin.	Approximate area completed.	Progress made in investigation.				Progress made in execution.				Estimates sanctioned and sent for execution up to end of 31st March 1898.	Deduct estimates of zaminidari and private works.	Total estimates handed over to Public Works Department for execution.	Estimates worked out.
				ACS.	No.	Amount.	Number.	Amount.	Number.	Amount.	Number.				
Vaijpur river	Upattur	384	384	Investigations completed; plates under preparation; memoirs printed	18	15,125	18	15,125	107	1,13,781	107	1,13,781	13,630	53,456	
	Siola Namady	576	576	Investigations completed	107	1,13,781	24	75,256	24	75,256	24	75,256	63,462	93,951	
	Upper Noyil	298	298	Investigations completed; plates and memoirs printed.	40	32,693	40	32,693	40	32,693	40	32,693	27,908	37,908	
	Avanashi	320	320	Do.	11	5,900	11	5,900	11	5,900	11	5,900	4,580	18,847	
Noyil river	Uttukuli	182	182	Do.	11	5,900	11	5,900	11	5,900	11	5,900	4,580	18,847	
	Tirupur	250	250	Do.	11	5,900	11	5,900	11	5,900	11	5,900	4,580	18,847	
	Lower Noyil	266	266	Do.	11	5,900	11	5,900	11	5,900	11	5,900	4,580	18,847	
	Satyamangalam	384	384	Investigations completed; all the works in this minor basin are either abandoned or private	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
Bhavani river	Upper Bhavani	772	772	Investigations completed; plates and memoirs printed.	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Koduvai	456	456	Do.	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Mayar	628	628	Do.	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Honhalla	652	652	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
Honhalla	Tadakarai	300	300	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Tadakarai	300	300	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Tadakarai	300	300	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Tadakarai	300	300	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
Unhattabully	Unhattabully	624	624	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Unhattabully	624	624	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Unhattabully	624	624	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Unhattabully	624	624	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
Minor drainages	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
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Ponnai river	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
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Madras Basin.	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
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Minor drainages	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
Minor drainages	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin	11	20,327	11	20,327	11	20,327	11	20,327	18,847	21,568	
	Minor drainages	266	266	Investigations completed; there are no irrigation works in this minor basin											

* Excess due to outlay on "the restoration of Nalayar channel" being debited to this minor basin. It will, on completion of the works, be separated with reference to the minor basin in which the tanks and channels are situated.

† Of this, one estimate amounting to Rs. 180 is for a desbandam work; it was sent to Collector for execution by inamdar.

‡ Of these, three estimates amounting to Rs. 710 are for desbandam work; they were sent to Collector for execution by inamdar.

§ Of this, one estimate amounting to Rs. 195 is for a desbandam work; it was sent to Collector for execution by inamdar.

¶ Of these, nine estimates amounting to Rs. 1,765 are for desbandam work; they were sent to Collector for execution by inamdar.

‡ Of this, one estimate amounting to Rs. 120 is for a desbandam work; it was sent to Collector for execution by inamdar.

STATEMENT B—showing the progress of execution of works in Basins, the investigations of which were completed or nearly so by 31st March 1898.

Districts.	Basins.	Estimates sanctioned and sent for execution up to 31st March 1898.	Expenditure.	Percentage worked out to total.
1	2	3	4	5
		RS.	RS.	%
Madura	Upper Vaigai river	2,78,327	2,78,420	100
	Upper Gundaur river	2,99,551	2,41,045	80
Tinnevely	Waipar river	4,44,462	3,44,925	78
	Midvaigai river	1,59,919	1,07,912	68
Madura and Coimbatore	Amaravati river	4,87,779	4,73,561	97
	Noyi river	1,34,175	1,13,586	84
	Bhavani river	33,127	31,212	94
	Hehulla river	30,424	27,726	91
Coimbatore	Minor drainages No. 81	2,344	1,941	83
	Basin No. 67-A	22,480	22,341	100
Salem	Thirumanimulthar	1,07,588	98,072	91
Chingleput and North Arcot	Madras drainage basin †	12,13,027	11,37,691	94
South Arcot	Do. No. 64	2,54,526	2,54,271	100
Bellary and Kurnool	Do. No. 25	11,689	12,109	104
	Do. No. 29	418	353	84
Kurnool	Hindry river	45,882	39,545	86
Kurnool and Cuddapah	Kundaur river	1,51,781	1,49,614	98
Godavari	Goddavari river	1,02,556	96,076	94
	Gundlakamma river	24,870	21,184	85
Kistna	Minor drainages No. 10	60,901	58,434	96
Tanjore	Kistna river	66,481	62,093	93
	Minor drainages Nos. 89 and 91	2,71,587	2,41,786	89

NOTE.—The execution of works in the basins marked * have been fully completed, but the difference in the percentage is due to savings effected in carrying out of the sanctioned estimates.
† This basin is entered in the statement because the investigation in it has been stopped for the time being, although some minor basins in it have not yet been entered upon.

(Signed) R. N. H. REID,
for Chief Engineer for Irrigation, T.R.S.

ORDER—No. 958 I., dated 14th December 1898.
Recorded.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineers of Circles.
" the Examiner, Public Works Accounts.
Editors' Table.

Exd. P. Seetharam.

Public Works (1898) Department.

CURRENT No. ~~711~~ ¹⁰³⁴⁹

Order

No. 958 I. 14.12.98.

From

The Chief Engr. for Irrigation.

Recorded.

No. 2742 T.

Dated 21 11 98.

Received

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To the Chief Engineer for Irrigation.

" Superintending Engineers of Circles.

" Examiner of Accounts

Editors' Table

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10/12/98

10/12/98

10/12/98

10/12/98

10/12/98

STATEMENT B—showing the progress of execution of works in Basins, the investigations of which were completed or nearly so by 31st March 1898.

NOTE.—The execution of works in the basins marked * have been fully completed, but the difference in the percentage is due to savings effected in carrying out of the sanctioned estimates.

(Signed) R. N. H. REID,
for Chief Engineer for Irrigation, T.R.S.

ORDER—No. 958 I., dated 14th December 1898.

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Under Secretary to Government,
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 Editors' Table.

Exd. P. Seetharam.

Public Works (1898) Department.

CURRENT No.

Order

No. 958 J 2/14.12.98

From

The chief cargo for foreign
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No. 2742 T.

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23.11.98

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Q. 1032 3 298
2849W 11 1097

The accompanying statements showing the progress of Tank Restoration operations during the year 1897-98 are submitted for the information of Government.

Rupies 5395 for Railway affecting
Zemindari & private tanks were
also prepared & sent to the collector
for execution of the works by the
inam dars concerned.

4. The total amount of estimates
sanctioned from the commencement
of the operations to 31st March 1898,
was Rupies 53,89,995 from which
has to be deducted Rupies
11,94,03 being the amount of estimates
formerly prepared for zemindari
works, as explained in paragraph
4 of the note on the progress of
Tank Restoration operations printed
with G.O. No 208 D, 23-3-90,
the amount of estimates prepared
under G.O. No 236 D, 9-3-92, for works
in the Yelagiri-mittab, Salem
District, and Rupies 10,300 being
the amount of estimates for
railway affecting zemindari
and private tanks leaves
Rs 52,50,203 as the amount of
estimates sanctioned for
Government works.

During

958/8 20

5. During the year 1897-98
was engaged in the investigation
of Gudur, Mannabolu and
Kannur Minors Basins of the
Kandali or Venkatasiri river
basin in the Koller District
and completed Mannabolu and
Kannur with a greater portion
of Gudur Minors Basins. 2nd
Party completed the investigation
of Upodai Minors Basin and
commenced operations in Chittar
Minors Basin in Tirunelveli
District. 3rd Party was upto
end of the official year 1897-98
engaged in Famine relief works
under the orders of the Superintending
Engineer Third Circle. 4th Party
was placed under the orders of
the Superintending Engineer
Third Circle, for Famine duty,
and resumed the ordinary
Tank Restoration Scheme duties
in October last in Hindurpur
Minors Basin of Upper Pennar
river.

river basin in Amantapur District. A 5 Party in the North West District, continued the investigation of Gudigattam Mines Basin. A 6 or special Party which was placed at the disposal of the Superintending Engineer Third Circle, for employment on famine relief works at the end of November 1896, has not resumed its work in Dogaletti Taluk, Chuddapah District.

6 Statement B shews the estimated cost of the work of restoration in the basins, the investigation of which is finished or very nearly so, column 4 of the statement shews the actual expenditure on these works.

7 The total expenditure on execution (excluding establishment charges and Tools & Plant) to the end of March 1898, was Rs 44,35,977 shewing Rs 8,14,226 as the apparent unexpended balance of estimates

30 958
9

the actual balance as given by the Executive Engineers in special statements submitted by them amounts to Rs 5,98,763. The difference between these two figures is accounted for by the surrender of various savings on such of the estimates as had been worked out and closed.

8 The balance of estimates received but not dealt with on 31st March 1898, was Rs 27,22,95. This amount added to the approximate balance of sanctioned estimates available for execution as given by Executive Engineers gives Rs 57,10,58, as the amount by which investigation was ahead of execution at the end of March 1898.

9 The total amount of expenditure (Rs 44,37,226) given in this note has been obtained from the Examiner P.W. accounts, but the amounts of expenditure aggregating to Rs 44,35,977 entered in column 12 of the larger tabular statement are

Uppodai	320	320	Investigations completed
Chittar	650	200	do are in progress
Ajmanady	872	872	Investigations completed
Uppattur	354	354	do do; plates under preparation memoirs printed
Nichabamady	576	576	Investigations completed
Upper Kogil	296	296	Investigations completed; plates & memoirs printed
Tranashu	320	320	do do do
Uttukuli	182	182	do do do
Tirupur	250	250	do do do
Lower Kogil	256	256	Investigations completed. All the works in this Minor Basin are either abandoned or private
Lakshmanagalam	384	384	Investigations completed; plates & memoirs printed
Upper Bhavani	772	772	do do do
Koduvur	456	456	do do do
Maingar	628	628	Investigations completed. There are no irrigation works in this Minor Basin
Konhulla	652	652	Investigations completed; plates & memoirs printed
Kodakkarai	360	360	Investigations completed. There are 12 ancient and channels in the Minor Basin, all of which having been abandoned for half a century prior to the investigation, nothing was proposed to be done to them
Umbattahally	624	624	Investigations completed. There are no irrigation works belonging to Government in this Minor Basin
Theruvu	256	256	do do do
80	192	192	do do do
81	320	320	Investigations completed; plates under preparation; memoirs printed

Statement showing for

Basin Minor Ba

1

2

10

120

15

reparation

printed

in this Minis

printed

igations/works

is printed

29	11173	89	"	"	11173	89
27	201681	64	"	"	201681	64
44	63518	81	"	"	63518	81
961	261112	191	"	"	261112	191

Ms. 211/58 R 4-2-78

Basin

Minor Basin

Area of Minor Basin

Approximate area completed

Progress made in investigation

1
10
55

2

3

4

5

Upper Vaigai river

Peryakulam
Bulagundur
Sivuligar
Talavai
Andipatty

192 192
208 208
504 504
256 256
144 144

Investigations completed; plates and memoirs printed
do do do
do do do
do do do
do do do

Udamalpet
Palni
Upper Amaravathy
Dindigul
Dharapuram

400 400
304 304
656 656
432 432
250 250

do do do
do do do
do do do
Investigations completed.
do completed, estimates amounting to

Amaravathy river

Kangayan

180 180

the scope of the works were found to be the scope of the works were sent to the Coimbatore Division for disposal
as there has been no cultivation under them for years the Minor Basins being taken up, they were investigated

Karur

191 191

Investigation completed, estimates for the works to be prepared but as they did not fall within the scope of the scheme the estimates were sent to the Coimbatore Division for disposal
the remaining works, one is a private work and were found to be unimportant

Meeranur

259 259

do completed, of the 27 works 25 were found to be unimportant

Lower Kadaganur

250 250

do completed; memoirs are under

Kanganjear

268 268

do do; plates and memoirs

Kellatangi

204 204

do do; do

Upper Gundaur river

Niramanjalam
Sivarakottai

300 300
340 340

Investigations completed
do do