Public Works.

~~Marine~~ (1899) Department.

G.O., No. 350
357 J

DATED 17 April ~~March~~ 99

[Despatch Abstract.]

Sangam Anicut System

(detailed) Approving, with remarks, Certain Statements submitted by the Chief Engineer for Irrigation in connection with the —— And adding that a copy of the Gov.t be forwarded to the Govt Indra

—— System

Sangam Anicut ——

Forwarding copy of Govt: Approving (detailed) —— Statements submitted both remarks, Certain ——— by Chief Engineer for Irrigation in connection with the ———

9/9

(R. 1/12/99)

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.

Government {1899} of Madras.

PUBLIC WORKS.

Recd. } 1899. *Enclosures*

Regd. *Spare copies*

G.O., Nos. 350, 351 I., 17th April 1899.

APRIL.

Sangam Anicut System

Forwarding copy of Proceedings approving, with remarks, certain detailed statements submitted by the Chief Engineer for Irrigation in connection with the —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.

READ—the following papers:—

From O. C. LEES, Esq., Under Secretary to the Government of India, Public Works Department (Civil Works—Irrigation), to the Joint Secretary to the Government of Madras, Public Works Department, Irrigation Branch, dated Simla, 21st October 1898, No. 597 C.W.I.

I am directed to acknowledge the receipt of the Proceedings of the Madras Government, No. 559 I., dated the 22nd July 1898, embodying the revised completion report of the Sangam anicut system.

2. With reference thereto, I am to say that the Government of India desire to be furnished with—

(i) A statement showing the indirect charges that will be incurred after 1893-94 in respect of the works in Appendix C of the report.

(ii) A complete statement of all works sanctioned against the Open Capital Account of the project between the 1st April 1894 and date of your reply, whether chargeable against "43" or "49", showing details of sanction under works, establishment, and tools and plant, and also the involved indirect charges on account of leave and pension allowances and capitalized value of abatement of land revenue.

(iii) Forecasts, in prescribed forms 1 to 4, showing actuals of Capital and Revenue and interest charges and revenue receipts up to the end of 1897-98 including interest on Capital outlay charged to Revenue (43), as shown in the Administrative accounts and estimated figures for 1898-99 to 1903-1904 (the tenth year after completion).

3. With reference to paragraph 6 of the note by the Chief Engineer for Irrigation, dated the 11th June 1898, I am to point out that Volume II, Chapter V, paragraph 35 (IV) of the Public Works Department Code, does not direct that charges against the Open Capital Account should be excluded. Account must be taken of them, so far as they are known or can be estimated, in any discussion of the financial results attained and the general prospects of the project, but it is unnecessary to take account of future expenditure for which estimates have not been sanctioned, though if any unavoidable expenditure can be foreseen, which is likely to seriously affect the financial prospects of the project, it will be convenient that a reference should be made to it.

Office-note from the Chief Engineer for Irrigation, dated Madras, 5th January 1899, No. 8.

Please have the actuals shown in the accompanying statements prepared in this office with reference to letter No. 597 C.W.I., dated 21st October 1898, from the Government of India verified and return the statements as early as possible with any remarks you may wish to make thereon.

2. In returning the file please forward a statement of indirect charges incurred after 1893-94 in respect of the works in Appendix C at page 19 of G.O., No. 559 I., dated 22nd July 1898, as information for its preparation is not available in this office.

Office-note from the Examiner, Public Works Accounts, dated Madras, 9th January 1899, No. 72 B/B.

[Your Office-note No. 8, dated 5th January 1899.]

The entries relating to Open Capital sanctions under "Direct Charges" in Statement A, as well as the figures of actuals in Tables I to IV have been checked and found correct.

2. As regards the indirect charges required in respect of each work in Appendix C, referred to by you, this office is unable to furnish the information, as the Collectors in their Annual Returns of Revenue lost rendered to this office (and on which the capitalization of abatement of Land Revenue is calculated) make no reference whatever to the sanctioned estimates of the work to which the assessment lost appertains. The method of calculation adopted by you for the entire project in statement marked A and the results shown in Table II appear to be correct, assuming the basis of calculation to be correct.

3. The enclosures to your office-note are herewith returned.

BACK PAPERS

ENCLOSURE.

SANGAM ANICUT SYSTEM.

A.—STATEMENT showing works sanctioned under Open Capital Account from 1st April 1894 up to date.

Sanctioning authority.	Name of work.	Direct charges.				Indirect charges.		Total.
		Works.	Land.	Establishment.	Total.	Capitalized abatement of Land Revenue.	Leave and pension allowances.	Total.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Govt. of India, No. 270 I., dated 6th November 1895 (P.M.G., No. 1027 I., dated 20th November 1895).	1. Schedule of works which remained incomplete after the closure of the construction estimate of the Sangam anicut system	26,970	12,432	6,203	45,605	15,540	868	62,013
P.M.G., No. 357 I., dated 23rd April 1895, and No. 669 I., dated 21st July 1897.	2. Extension of minor channel, 19 miles, left bank, eastern channel, Kanigiri canal ..	1,131	126	260	1,517	157	36	1,719
P.M.G., No. 368 I., dated 29th April 1895.	3. Varni branch channel, No. 2, Eastern channel ..	1,521	279	350	2,150	349	49	2,548
P.M.G., No. 429 I., dated 20th May 1895.	4. Drainage scheme for Dampur tank-bed, Kanigiri	3,680	1,080	846	5,610	1,350	118	7,078
P.M.G., No. 812 I., dated 3rd October 1895.	5. Constructing a drainage culvert at 370 feet, Southern channel, Kanigiri canal ..	1,150	..	265	1,420	..	37	1,457
P.M.G., No. 968 I., dated 20th November 1895.	6. Providing screw-gearing shutters for the Kanigiri reservoir	13,000	..	2,990	16,000	..	419	16,419
P.M.G., No. 1027 I., dated 26th November 1895.	7. Gogulapalli branch channel, minor sluice, 2 miles, 1,050 feet R.B. .. .. Rs. 270 Gogulapalli regulator and sluice, 2 miles 1,320 feet .. .. ,, 536	800	..	184	984	..	26	1,010
Govt. of India., No. 77 I., dated 13th April 1896 (P.M.G., No. 407 I., dated 9th May 1896).	8. Diverting the surplus water of the Kanigiri reservoir into the Pyderu river ..	1,68,034	866	38,648	2,08,000	1,083	5,411	2,14,494
P.M.G., No. 927 I., dated 19th October 1897.	9. Improvements to Kanigiri reservoir	9,000	..	2,070	11,100	..	290	11,390
P.M.G., No. 122 I., dated 12th February 1898.	10. Constructing an extra span 40 feet for the Pyderu railway bridge	6,228	..	1,433	7,754	14,770	201	7,955
....	11. Actual and probable debits requiring sanction ..	..	(a) 11,816	..	11,816	..	..	26,586
	Total ..	2,31,514	26,599	53,249	3,11,965	33,249	7,455	3,52,669
					603		201	40,704
					3,11,965		14,770	
							40,704	

(a) The actual debit of Rs. 6,935 over the sanction has been placed under objection by the Examiner, Public Works Accounts.

NOTE.—In the absence of information as to the land revenue abated, it has been assumed to be $\frac{1}{20}$ of the amount provided for land compensation.

SANGAM ANICUT SYSTEM.

TABLE I.—SUMMARY of actual and estimated direct charges on Capital Account.

Year.	Works.			Establishment.	Tools and plant.	Total.	*Less* receipts on Capital Account.	Net total.
	Land compensation.	Other works.	Total.					
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Actuals to end of 1893-94 ..	3,05,177	21,57,283	24,62,460	4,87,770	1,16,780	30,67,010	48	30,66,962
Do. for 1894-95 ..	(a) 5,002	21,208	26,210	4,878	— 97	30,991	..	30,991
Do. for 1895-96 ..	(a) 2,066	12,566	14,632	2,824	— 192	17,264	..	17,264
Do. for 1896-97 ..	(a) 4,445	11,600	16,045	2,666	— 1,378	17,333	..	17,333
Do. for 1897-98 ..	(a) 10,086	6,695	16,781	1,539	78	18,398	..	18,398
Probable during 1898-99 ..	(b) 5,000	13,296	18,296	3,058	100	21,454	..	21,454
Do. 1899-1900 ..	..	40,000	40,000	9,200	152	49,352	..	49,352
Estimate for 1900-1901 ..	..	40,000	40,000	9,200	150	49,350	..	49,350
Do. 1901-1902 ..	..	40,000	40,000	9,200	150	49,350	..	49,350
Do. 1902-1903 ..	..	46,149	46,149	10,684	1,640	58,473	..	58,473
Total from 1894-95 ..	(c) 26,599	2,31,514	2,58,113	53,249	603	3,11,965	..	3,11,965
Grand Total ..	3,31,776	23,88,797	27,20,573	5,41,019	1,17,383	33,78,975	48	33,78,927

(a) As shown in the Administrative Accounts.

(b) Represents the existing grant for the current year.

(c) This amount exceeds the existing sanction by Rs. 11,816, of which Rs. 6,935 representing actual outlay have been placed under objection by the Examiner, Public Works Accounts. In the orders passed on the statement of objectionable items, the Superintending Engineer, II Circle, has been directed to apply for the early sanction of Government to the excess.

TABLE II.—SUMMARY of actual and estimated indirect charges on Capital Account.

Year.	Capitalized abatement of land revenue.	Leave and pension allowance.	Total.
	Rs.	Rs.	Rs.
Actuals to end of 1893-94	6,14,626	70,406	6,85,032
Do. for 1894-95	1,080	683	1,763
Do. for 1895-96	8,008	395	8,403
Do. for 1896-97	..	373	373
Do. for 1897-98	9,274	215	9,489
Probable for 1898-99	117	428	545
Estimate for 1899-1900	..	1,288	1,288
Do. 1900-1901	..	1,288	1,288
Do. 1901-1902	..	1,288	1,288
Do. 1902-1903	..	1,497	1,497
Actuals and probable debits requiring sanction ..	* 14,770	..	14,770
Total from 1894-95 ..	33,249	7,455	40,704
Grand Total ..	6,47,875	77,861	7,25,736

* *Vide* item 11 of statement A.

TABLE III.—ESTIMATE of the growth of irrigation and revenue receipts and charges.

Year.	Area irrigated at end of each year.		Estimate of revenue receipts and charges.					
			Gross revenue.			Working expenses, both direct and indirect.	Net revenue due to works.	
			Direct.	Indirect.	Total.		Including indirect revenue.	Excluding indirect revenue.
1	2	3	4	5	6	7	8	9
	ACRES.	ACRES.	RS.	RS.	RS.	RS.	RS.	
Actuals to end of 1893-94 ..	..	..	6,793	8,89,613	8,96,406	3,96,727	4,99,679	Water-rates are collected in the Revenue Department, and treated as indirect revenue. If they are excluded there will be no net revenue.
Do. for 1894-95	72,583	4,095	536	1,85,490	1,86,026	47,209	1,38,817	
Do. for 1895-96	73,557	3,790	551	1,91,586	1,92,137	59,896	1,32,241	
Do. for 1896-97	72,676	7,110	588	1,95,860	1,96,448	52,363	1,44,085	
Do. for 1897-98	71,765	4,512	1,311	1,85,964	1,87,275	45,371	1,41,904	
Estimate for 1898-99 ..	76,002	4,005	600	2,19,808	2,20,408	46,076	1,74,332	
Do. for 1899-1900 ..	78,002	4,128	600	2,31,215	2,31,815	47,000	1,84,815	
Do. for 1900-1901 ..	80,002	4,251	600	2,42,622	2,43,222	47,000	1,96,222	
Do. for 1901-1902 ..	82,002	4,374	600	2,54,029	2,54,629	47,000	2,07,629	
Do. for 1902-1903 ..	84,130	4,500	600	2,65,956	2,66,556	47,000	2,19,556	
Do. for 1903-1904 ..	84,130	4,500	600	2,65,956	2,66,556	47,000	2,19,556	
Total ..	..	..	13,379	31,26,099	31,41,478	8,82,642	22,58,836	

TABLE IV.—ESTIMATE of net financial results.

Year.	Direct capital outlay during the year.	Direct capital outlay to end of the year.	Simple interest at 4 per cent. on outlay to end of previous year and at 2 per cent. on outlay of the year.	Net revenue including indirect revenue, column 8 of Table III.	Simple interest *less* net revenue.	Net revenue *less* simple interest.
1	2	3	4	5	6	7
	RS.	RS.	RS.	RS.	RS.	RS.
Actuals to end of 1893-94 ..	..	30,66,962	11,50,433	4,99,679	6,50,754	..
Do. for 1894-95 ..	30,991	30,97,953	1,23,298	1,38,817	..	15,519
Do. for 1895-96 ..	17,264	31,15,217	1,24,263	1,32,241	..	7,978
Do. for 1896-97 ..	17,333	31,32,550	1,24,955	1,44,085	..	19,130
Do. for 1897-98 ..	18,398	31,50,948	1,25,670	1,41,904	..	16,234
Estimate for 1898-99 ..	21,454	31,72,402	1,26,467	1,74,332	..	47,865
Do. for 1899-1900 ..	49,352	32,21,754	1,27,883	1,84,815	..	56,932
Do. for 1900-1901 ..	49,350	32,71,104	1,29,857	1,96,222	..	66,365
Do. for 1901-1902 ..	49,350	33,20,454	1,31,831	2,07,629	..	75,798
Do. for 1902-1903 ..	58,573	33,78,927	1,33,695	2,19,556	..	85,861
Do. for 1903-1904 ..	..	..	1,35,157	2,19,556	..	84,399
Total from 1894-95 ..	..	..	12,83,076	17,59,157	..	4,76,081
Grand Total ..	..	..	24,33,509	22,58,836	1,74,673	..

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

No. 59 I.

Note by the Chief Engineer for Irrigation.

With reference to the letter from the Government of India read above, the accompanying statement of works sanctioned against the Open Capital account of the Sangam anicut system from 1st April 1894 showing details of sanction under works, establishment and tools and plant, and the involved indirect charges, and forecasts in forms Nos. I to IV are submitted to Government. As regards statement of indirect charges incurred after 1893-94 in respect of the works in Appendix C, printed with G.O., No. 559 I., dated 22nd July 1898, required by the Government of India, the Examiner of Public Works Accounts states that he is unable to furnish the information, as the Collectors in their annual returns of revenue lost rendered to his office and on which the capitalization of abatement of land revenue is calculated make no reference whatever to the sanctioned estimates of the work to which the assessment lost appertains. The forecast statement No. 2, however, shows collectively the actual indirect charges from 1893-94 to 1897-98 and the estimated figures from 1898-99 on works given in schedule C as well as on those sanctioned from 1st April 1894 against the Open Capital account.

2. The Superintending Engineer, II Circle, has not yet applied for the necessary sanction of Government to the actual and probable excess outlay over the sanction for land compensation referred to in statement A. He should do so without further delay.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

8th March 1899.

ORDER—No. 350 I., dated 17th April 1899.

The statements submitted by the Chief Engineer for Irrigation are approved.

2. The attention of the Superintending Engineer, II Circle, is called to the remarks of the Chief Engineer for Irrigation in paragraph 2 of the foregoing note.

3. The instructions conveyed in paragraph 3 of the letter from the Government of India are noted.

4. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 351 I., dated 17th April 1899.]

(True Extract.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ Superintending Engineer, II Circle.
„ Examiner, Public Works Accounts.

ENDORSEMENT—No. 351 I., dated 17th April 1899.

Forwarded.

(By order.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

Exd. A. Rungasawmy Aiyangar.

Public Works (1899) Department.

CURRENT No. 2572.
+
8976/88

D.E.I for favour of marking instructions to the Press

From The Chief Engineer for Irrigation

Order

No. 598

Dated 8th March/99.
Received } 24-3-99
Registered }
Enclosures 5
Spare copies

SUBJECT.

Sugarcane Accounts System — Statement of works sanctioned against the open Capital account for the — from 1st April 1894 — Submitted with remarks.

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

H.E. the Governor.

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Submitting with remarks statements of works sanctioned against the Open Capital account of the Sangam Anicut System.

UNDER date the

READ the following

From the Government of India - No. 597 C. W. I. dy 21st Oct 19
Office - note 6 the Examiner of P. W. Accounts - No. 8 dy 6th Jany 19
do from Statement A do No. 72 B/13 dy 9th do
Precast Statements I to IV. W 590 dy 8-3-99

Note by the Chief Engineer for Irrigation.

With reference 6 the letter from the Government of India read above the accompanying statement of works sanctioned against the Open Capital account of the Sangam anicut system from 1st April 1894 showing details of sanction under works, establishment and tools and plant, and the involved indirect charges, and forecasts in forms Nos. 1 to IV are submitted to Govt. As regards statement of indirect charges incurred

after 1893-94 in respect of the works in Appendix C printed with G.O. No. 559. I. dated 22nd July 1898, required by the Govt. of India, the Examiner of P. W. Accounts states that he is unable to furnish the information regarding the annual ~~revenue lost or which the~~ Revenue lost rendered to his Office on which the Capitalization of abatement of land Revenue is calculated ~~not being available in his office the statement could not be prepared~~. The forecast statement No. 2, however, shows collectively the actual indirect charges from 1893-94 to 1897-98 and the estimated figures from 1898-99 on works given in schedule C as well as on those sanctioned from 1st April 1894 against the Open Capital account.

2. The Supdg: Engineer II Circle, ~~has not yet applied but should apply as early as possible~~ for the necessary sanction of Government for whatever to the sanctioned estimates of the work to which the assessment lost appertains.

108

A.S.H. 20.3.99

the actual and probable excess outlay over the sanction for land compensation referred to in statement A. He should do so without further delay.

Order thereon

No: 350 I dt 17.4.99

The statements submitted by the Chief Engineer for Irrign: are approved.

2. The attention of the Supdg: Engineer, II circle is called to the remarks of the Chief Engr for Irrigation in para 2 of the foregoing note.

3. The instructions conveyed in para 3 of the letter from the Govt. of India are noted.

4. Ordered that a copy of these Proceedings, ~~together with the statements referred to above~~, be forwarded to the Govt. of India for information ~~with reference to its letter No. 397 C. W. dated 21st October 1898~~

Endorsement
No. 351 I dt 17.4.99
Forwarded.

To,
The Chief Engr for Irrign:
" Supdg: Engr II Circle.
" Examiner P.W. Accounts.

7-3-99. 8/3/99

WH 8.3.99

8/3/99

Public Works (1899) Department.

CURRENT No. 1 O.N.

From The Examiner P.W. Accounts, Madras & Coorg

Order

No. 72 B/B

Dated 9th January 1899.

Received 10. do —

Registered

Enclosures 45

Spare copies

SUBJECT.

Statements showing the forecasts of financial results Sangam Anicut System — Returns — — verified & with remarks.

the — ZEJ

LOS 10/1/99

BACK PAPERS.

No.	Date.
28.	5-1-99.

FURTHER PAPERS.

No.	Date.

4 Bx

Sangam Anicut System

A. Statement showing works sanctioned under Open Capital account from 1st April 94 upto date.

Sanctioning authority	Name of work	Direct charges					Indirect charges			Total
		Works	Land	Establishment	Tools and plant	Total	Capitalized abatement of land rev:	Leave and pension allowance	Total	
		Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Govt of India No 270 I dated 5th Nov/95 (Pmg 1027 dy/26 11/95)	1. Schedule of works which remained incomplete after the closure of the construction estimate of the Sangam anicut system — — —	26.970	12.432	6.203	"	45.605	15.540	868	16.408	62.013
No 357 dy/23 4/95 & 669 dy/21 7/97	2. Extension of minor channel 19 miles, left bank Eastern channel, Kanigiri canal —	1.131	126	260	9	1.526	157	36	193	1.719
368 dy/29 4/95	3. Varni branch channel, No 2 Eastern channel	1.521	279	350	.	2.150	349	49	398	2.548
429 dy/20 5/95	4. Drainage scheme for Dampur tank bed, Kanigiri canal - - - —	3.680	1080	846	4	5.610	1.350	118	1.468	7.078
812 dy/3 10/95	5. Constructing a drainage culvert at 370 feet Southern channel, Kanigiri canal, - -	1150	"	265	5	1.420	.	37	37	1.457
998 dy/20 11/95	6. Providing screw gearing shutters for the Kanigiri reservoir - - - -	13.000	..	2.990	10	16.000	.	419	419	16.419
1027 dy/26 11/95	7. Gogulapalli branch channel minor sluice 2 miles 1050 ft RB Rs 270 DO regulator and sluice 2 miles 1329 feet. 530	800	.	184	.	984	.	26	26	Late
Govt No 773 134.96 (Pmg. 407 dy/9.5.96)	8. Diverting the surplus water of the Kanigiri reservoir into the Paydem river - - - - - -	1,68,034	866	38.648	452	208.000	1083	5,411	6494	2,14,494
Pmg No 927 dy/17.10.97	9. Improvements to Kanigiri reservoir	9.000	"	2,070	30	11.100	.	290	290	11.390
1223 dy/12 2/98	10. Constructing an extra span 40 feet for the Paydem Railway bridge — —	6.228	.	1.433	93	7.754	.	201	201	7.955
	11. Actual and probable debits requiring sanction - - - -	"	(a) 11.816	.	.	11.816	1477 0	.	14770	26.586
	Total — —	2,31,514	26,579	53,249	603	3,11,965	33,249	7,455	40,704	3,52,669

(a) The actual debit of Rs 6.935 over the sanction has been placed under objection by the Examiner, PW. Acctts.

Note. In the absence of information as to the land revenue abated, it has been assumed to be 1/20 of the amount provided for land compensation.

W Hughes

Chief Engr for Irrigation

Pro 3.1
25/2/95

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Sangam Anicut System

Table I. Summary of actual and estimated direct charges on Capital account

Year	Works			Establishment	Tools and plant	Total	Less receipts on Capital account	Net total
	Land compensation	Other works	Total					
1	2	3	4	5	6	7	8	9
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Actuals to end of 1893-94	3.05.177	21.57.283	24.62.460	4.87.770	1,16.780	30.67.010	48	30.66.962
Do for 94-95	(a) 5,002	21,208	26.210	4878	-97	30.991	"	30.991
Do for 95-96	(a) 2.066	12.566	14.632	2.824	-192	17,264	"	17.264
Do for 96-97	(a) 4.446	11.600	16.045	2.666	-1,378	17.333	"	17.333
Do for 97-98	(a) 10.086	6.695	16.781	1.539	78	18.398	"	18.398
Probable during 98-99	(b) 5.000	13.296	18.296	3.058	100	21.454	"	21.454
1899-1900	"	40.000	40.000	9.200	152	49.352	"	49.352
Estimate for 1900-01	"	40.000	40.000	9.200	150	49.350	"	49.350
1901-02	"	40.000	40.000	9.200	150	49.350	"	49.350
1902-03	"	46.149	46.149	10.684	1640	58.473	"	58.473
Total from 1894-95	(c) 26.599	231.514	258.113	53.249	603	311.965	48	311.963
Grand total	3.31.776	23.88.797	27.20.573	5.41.019	1.17.383	33.78.975	48	33.78.927

(a) As shown in the Administrative Accounts.

(b) Represents the existing grant for the current year.

(c) This amount exceeds the existing sanction by Rs 11.816 of which Rs 6.935 representing actual outlay, have been placed under objection by the Examiner, P. W. accounts. In the orders passed on the statement of objectionable items, the Supg: Engr: III circle, has been directed to apply for the early sanction of Govt: to the excess.

W. Hughes
Chief Engr for Irrigation

Table II. Summary of actual and estimated indirect charges on Capital account

Year	Capitalized abatement of land revenue	Leave & pension allowance	Total
	Rs	Rs	Rs
Actuals to end of 1893-94	6.14.626	70.406	6.85.032
Do for 94-95	1.080	683	1.763
Do for 95-96	8.008	395	8.403
Do for 96-97	"	373	373
Do for 97-98	9.274	215	9.489
Probable for 98-99	117	428	545
Estimate for 1899-1900	"	1288	1.288
Do 1900-01	"	1288	1288
Do 1901-02	"	1.288	1.288
Do 1902-03	"	1497	1.497
Do 1903-04	"	"	"
Actuals and probable debits requiring sanction	× 14770	"	14.770
Total from 1894-95	33.249	7.455	40.704
Grand total	6.47.875	77.861	7.25.736

× vide item 11 of statement A.

W. Hughes.
Chief Engr for Irrigation

Table IV Estimate of net financial results

Year	Direct Capital outlay during the year	Direct Capital outlay to end of the year	Simple interest at 4 percent on outlay to end of previous year + 2½ percent on outlay during the year	Net revenue including indirect revenue Col. 8 of Table III.	Simple interest less net revenue	Net revenue less Simple interest
1	2	3	4	5	6	7
Actuals to end of 1893-94	Rs "	Rs 30.66.967	Rs 11.50.433	Rs 4.99.679	Rs 6.50.754	Rs "
Do for 94-95	30.991	30.97.153	1.23.298	138.817	"	15.519
Do for 95-96	17.264	31.15.217	1.24263	132241	"	7.978
Do for 96-97	17.333	31.32.550	124955	144085	"	19.130
Do for 97-98	18.398	31.50.948	1.25.670	141904	"	16.234
Estimate for 98-99	21,454	31.72.402	1.26.467	174.332	"	47.865
1899-1900	49.352	32.21.754	1.27.883	184.815	"	56.932
1900-01	49.350	32.71.104	129.857	196.222	"	66.365
1901-02	49.350	33.20.454	131.831	207.629	"	75.798
1902-03	58.573	33.78.927	133.695	219.556	"	85,861
1903-04	.	.	135.157	2.19.556	"	84.399
	Total from	1894-95	12,83,076	17,59,157	.	4,76,081
	Grand total		24,33,509	22,58,836	1,74,673	"

W. Hughes,
Chief Engr for Irrigation

P.W. 5.2
25/2/95

Table III. Estimate of the growth of irrigation and revenue receipts and charges.

Year	Area irrigated at end of each year		Estimate of revenue receipts and charges: Gross revenue			Working expenses both direct & indirect	Net revenue due to works: Including indirect revenue	Net revenue due to works: Excluding indirect revenue
			Direct	Indirect	Total			
1	2	3	4	5	6	7	8	9
	acres	acres	Rs	Rs	Rs	Rs	Rs	Rs
Actuals to end of 1893-94	.	.	6793	8.89.613	8.96406	3.96.727	499.679	
Do for 94-95	72.583	4095	536	1.85.490	1.86026	47209	1.38.817	
Do for 95-96	73.557	3790	551	1.91.586	1.92.137	59.896	1.32.241	
Do for 96-97	72.676	7.110	588	1.95860	1.96448	52.363	1.44085	
Do for 97-98	71.765	4512	1.311	1.85.964	1.87.275	45.371	1.41.904	
Estimate for 98-99	76.002	4005	600	219.808	220.408	46076	174.332	
1899-1900	78.002	4128	600	2.31.215	2.31815	47.000	1.84815	
1900-01	80.002	4251	600	242622	243.222	47.000	196.222	
1901-02	82.002	4374	600	254029	254629	47.000	207.629	
1902-03	84.130	4500	600	265.956	266556	47.000	2.19.556	
1903-04	84.130	4500	600	265.956	266.536	47.000	2.19.536	
Total	.	.	13.379	31.28.099	31.41.478	8.82642	22.58.836	

Water rates are collected and credited as indirect revenue but they are excluded from the net revenue.

W. Hughes.
Chief Engr for Irrigation

E. I. Form No. 22—2,000—8-8-96.

GOVT. OF MADRAS. } 1899. { P. W. DEPT.

CHIEF ENGINEER FOR IRRIGATION.

EXAMINER, P. W. ACCOUNTS. 6 - JAN. 1899 No.

Madras, 5 January 1899.

OFFICE NOTE No. 8

Circulation Register.

To	From	Despatch Date.	Receipt Date.
C.	E. I.	6-1-99	

KEEP-WITH.

No. , dated 189 .

Please have the actuals shown in the accompanying statements prepared in this office with reference to letter No. 597 C. W. I. dated 21st October 1898 from the Government of India verified and return the statements as early as possible with any remarks

ER ION. 10 JAN. 1899

you may wish to make
thereon.
2. On returning the file
please forward a state-
-ment of indirect charges
incurred after 1893-94 in
respect of the works in
Appendix C at page 19 of
G.O. No. 559. I. dated 22nd
July 1898, as information
for its preparation is not
available in this office.

5/1/99

W. Hughes
E.I.

Public Works (1898) Department.

CURRENT No. ~~8976~~

From The Government of India

Order

No. 597. C.W.D.

Dated 21 October 1898

Received } 31-10-98

Registered }

Enclosures

Spare copies

SUBJECT

Sangam Anicut System

Requesting to be furnished
with certain statements
in connection with the

2/11/98

You may wish to make

BACK PAPERS.

No.	Date.

FURTHER PAPERS

No.	Date.

*No.*597 C.W.I.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

CIVIL WORKS.

Irrigation.

All communications should be addressed to the Secretary.

1P

To

The Joint Secretary to the Government of Madras,
Public Works Department, Irrigation Branch.

Simla, the 21st October 1898.

Sir,

I am directed to acknowledge the receipt of the Proceedings of the Madras Government No.559 I., dated the 22nd July 1898, embodying the revised completion report of the Sangam Anicut System.

2. With reference thereto, I am to say that the Government of India desire to be furnished with:-

(i). A statement showing the indirect charges that will be incurred after 1893-94 in respect of the works in Appendix C of the Report.

(ii). A complete statement of all works sanctioned against the Open Capital Account of the project between the 1st April 1894 and date of your reply, whether chargeable against "43" or "49", showing details of sanction under Works, Establishment, and Tools and Plant, and also the involved indirect charges on account of Leave and Pension allowances and Capitalized value of abatement of land revenue.

(iii). Forecasts, in prescribed forms 1 to 4, showing actuals of Capital and Revenue and interest charges and revenue receipts up to the end of 1897-98 including interest on Capital outlay charged to Revenue

10 JAN 1899

5/21-0N.

Revenue (43), as shewn in the Administrative Accounts and estimated figures for 1898-99 to 1903-04 (the tenth year after completion.)

3. With reference to paragraph 6 of the note by the Chief Engineer for Irrigation, dated the 11th June 1898, I am to point out that Volume II Chapter V, paragraph 35 (IV) of the Public Works Department Code does not direct that charges against the Open Capital Account should be excluded. Account must be taken of them, so far as they are known or can be estimated, in any discussion of the financial results attained and the general prospects of the project, but it is unnecessary to take account of future Expenditure for which estimates have not been sanctioned, though if any unavoidable expenditure can be foreseen, which is likely to seriously affect the financial prospects of the project, it will be convenient that a reference should be made to it.

I have the honour to be,

Sir,

Your most obedient servant.

O.L. Lees

Under Secy.to the Govt.of India.

Documents accompanying :-

Nil.

P.W.S.3 25/2/99

J.B.H.

E- No. 27.
1,000—16-5-98

KEEP-WITH CURRENT No.

dated 189 .

GOVT. OF MADRAS. } 1898.9 { P.W. DEPT.

EXAMINER, P. W ACCOUNTS.

Madras, 9th January 1898.9

30

OFFICE NOTE No. 72 B/B

To

E.I.

Your O.N.No.8 dated 5th January 1899.

CHIEF ENGINEER FOR IRRIGATION. 10 JAN. 1899 R I_O_N.

The entries relating to open capital sanctions under "Direct -- Charges" in statement A, as well as the figures of actuals in Tables I to IV have been checked and found correct.

2. As regards the Indirect -- charges required in respect of each work in Appendix C referred to by you, this office is unable to furnish the information, as the collectors in their Annual Returns of Revenue lost rendered to this office, (and on which the Capitalization of abatement of land Revenue is calculated) make no reference whatever to the sanctioned -- estimates of the work to which the - assessment lost appertains- The method of calculation adopted by you for the entire project in statement marked A and the results shown in table II

appear to be correct- assuming the --
basis of calculation to be correct.

3. The enclosures to your Office Note are herewith returned.

Lalee

For C.

11/3/11

P.2, E-5
2572/57

11-8