No. 659 W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 17 March /85

READ the following

From the Supg Engineer VI Circle – dt. No. 757 dated 12th March /85

Sanction is accorded to the employment of a temporary draftsman on Rs 40/ per mensem in the Tinnevelly Division, for a period of one year, with effect from the 1st April 1885.

2. This sanction has been registered

as

as Provincial No.
93 W of 1884-85,
And classified
as Establishment
temporary –

CW
16.3.85

WS
16.3.85

W
18/3

To
The Supg Engineer VI Circle
" Excavr, P.W.D.

27/3

31/3

Tinnevelly Division Office
Camp. Tuticorin – 19th February 86
Despd 20th

No 3212.

From
The Executive Engineer
Tinnevelly Division

To,
The Superintending Engineer
6th Circle.

Sir,

I have the honor to inform you that the sanction accorded in G.O. No 659 W dated 17-3-85 for the employment of a temporary draftsman in this Office will cease from the 1st April Proximo and I request you will be good enough to obtain sanction for his continued employment during the year 1886-7 as his services are required in aiding the ordinary staff of the Office

Office.

2 It is difficult to state exactly the ~~xx what~~ works on which this man will be employed. Generally the works of this Office are too heavy for two men and thus require the help of a 3rd man to complete them in time as much as possible without leaving arrears in hand.

3. Field works for a number of works included in the Scheme for 1886-7 have been done, but estimates and plans are to be prepared — as also the grouping of irrigation works together with the statement in form No M.I 86 and the list of plans of irrigation works.

I have the honor to be
Sir
Your most obed Servt
(Signed) A. M. Hayes
Ex. Engineer Tinnie Dn

No 589 I.W

Copy forwarded to the Chief Engineer P.W.D who is requested to sanction the employment of a temporary draftsman in Tinnevelly Division on Rs 40 a month from 1st April 1886 to 31st March 1887.

The Supdtg Engineer considers this assistance is required.

Supdtg Engineer's Office
Trichinopoly. 22nd February 1886
Col. R.E.
Supdtg Engineer 6 Circle

5-1-095

No. 520 W a/ Feby 26. 1886

Recd 1474

In accordance with the Supg. Engineer's recommendation, sanction is accorded to the employment of a temporary draftsman on Rs 40/- per mensem in the Tinnevelly division for a period of one year, with effect from the 1st April 1886.

2. This sanction has been registered as Provincial No 65 W of 1885/86, and classified as Establishment, Temporary.

No 657 W. 17.3.85:
891 W. 1.4.84
1246 W. 25.4.83
8 I.D. 13.10.82
1526 W. 19.1.82.

24/2/86

25.2.86

S.E. VI C.

Expl P.W.A. Despd 26-2-86.

W. 1473

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21 FEB 86

From,

The Supg Engineer
6: Circle

To,

The Chief Engineer
P.W.D.

No 589 T.W

Dated 22nd February 86

No. 520 W a/ Feby 26. 1886

Requests to sanction the employment of a Temporary Draftsman in the Tinnevelly Dn on Rs 40 a month from 1st April 86 to 31st March 1887.

No 102

Tinnevelly Dn Office
Palamcottah 20th May /86

From

The Exe Engineer
Tinnevelly Dn

To

The Superintending Engineer
6th Circle.

Sir,

Referring to para 3 of my letter No 594 dated 2nd March last I have the honor to inform you that up to date the Channel Superintendents have taken levels as follows.

Kodagan Channel

Longitudinal and cross-sections of the Channel — 5 miles
Tanks Contoured — 12.

Tinnevelly Channel

Longitudinal & Cross sections of the channel — 10 miles
Tanks Contoured — 8.

Palayan Channel

Longitudinal and cross sections of the Channel - 14 miles
Tanks contoured - - - 24

It is expected that by the end of this month the remaining tanks of the Kodagan & Tinnevelly Channels and about six more of the Palayan Channel will be completed - There will then remain to be done in order to investigate to the irrigation under all three channels, about 30 miles of Longitudinal and cross sections and about 30 tanks to be contoured -

2. None of the work done by the Channel Superintendents has yet been plotted, because I ordered them to devote all their time to field work as the months of March, April & May are the only months during which the channels and tanks are dry. The Channels will be re-opened on or about the 1st June, and after that date the Superintendents will have to attend to the water distribution, and will, therefore, not be able, except roughly, to plot their field work - so special - Draftsmen will have to be entertained to make fair copies &c of the levels taken for the Channels and tanks

3. In addition to this work I have a great deal of work on hand that will take a long time to complete unless additional assistance in the way of Draftsmen is given - In the first place there are those large estimates to be prepared for retiring the flood banks of the Tambraparni River below Srivaikunthum Anicut - These are to a great extent already roughly prepared, but before they can be submitted for sanction, a great deal of Draftsman - work must still be executed -

Secondly. I have on hand a large Estimate for re-modelling and improving Manur Channel an off take of the Sittar River, and for which an Estimate was called for by the Chief Engineer - Irrigation, so far back as 1874. But on account of being obliged to employ my Draftsman on more urgent work, I have not up to date, been able to get this Estimate ready although at various times I tried hard to get it completed. Besides these there are some Post offices, Police stations & Huts, and Registrar's and sub-Registrars' offices Estimates for which have been called for, but which owing to my Draftsman being employed on more urgent work, I have not been able to submit for sanction. I have already explained personally to you how difficult it is in a

District

District where there is only one Executive Engineer, for him to get through expeditiously and correctly the preparation of Estimates &c. with only the aid of two Draftsmen. Under these circumstances I am obliged to ask for two additional Draftsmen for the remaining part of the official year. If these men are not given I do not think that I shall ever be able to complete the investigation of the irrigation under the Tambraparni River Channels, nor, until after a considerable lapse of time, be able to submit for sanction several important Estimates. I beg therefore that you will obtain permission to entertain two Draftsmen on a salary of Rupees 40 each.

I have &c

Sd/- J. W. Martin

Executive Engineer

Tinnevelly Dn

(True copy)

(By order)

Hd Clerk Supt Engrs Office

6 Circle.

5-1-04

From

The Executive Engr.
Tinnevelly Dn.

To

The Superintending Engr.
6th Circle

Dated 20th } May /82
Despd. 23d }

No. 102

Requests to obtain permission to entertain two Draftsmen for works assigned within.

No. 185 T.N.

Supg. Engr's Office 6: Circle
Cannadien ancient
8: June 1882.

From,

Col. I. Beatty R.E.
Supg. Engineer 6: Circle

To,

Col. R. H. Sankey C.B. R.E.
Chief Engineer P.W.D.

Sir,

Encls. 1.

In forwarding the accompanying copy of letter from the Executive Engineer Tinnevelly Dn. No. 102 of 20: Ultimo, I have the honor to request you will be good enough to sanction the entertainment of two temporary Draughtsmen up to 31st March 1883 on a salary of Rs. 140 per mensem each. The want of more Draughtsmen in all the Divisions is much felt, and in Tinnevelly it is now seriously delaying work.

I have the honor to be
Sir
your most obdt. servt.

I. Beatty Col. R.E.
Supg. Engineer 6: C

3-1-84)

B No. 1526 W. d/19th June/82

The employment of two temporary draughtsmen on Rs 40 each per mensem, in the Tinnevelly Division, for the remainder of the current official year is sanctioned, & the cost Rs 640, is appropriated from the budget grant for temporary establt.

2. This sanction has been registered as Provl No. 22 W. of 1882-83 & classified as Establt.

14.6.82

15/6/82

S.E. 6 Circle ✓
Exr. P.W.D. ✓ Issued 19/6
only 13/6 Obs 32/6 Re 17/6

From

The Supdt Engineer
6 circle.

To

The Chief Engineer
P.W.D.

No. 185 T.N.
Dated 8 } June 1882.
Recd 3 }

Enclo: 1.

No. 1526 W. d/19th June/82

Temporary Draftsme[illegible]

Requests sanction to the entertainment of two in the Tinnevelly Division.

Write order
Govt in R Kipsli

13th October 1882, No. 812 I., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

No. 54.

Read—the following papers :—

No. 97 I.

NOTE BY THE ACTING CHIEF ENGINEER FOR IRRIGATION.

Rough Estimate of Outlay in 1883-84.

The accompanying Schedule of Demands for Imperial Irrigation Works for 1883-84, compiled from the statements received from Superintending Engineers, is submitted for approval.

The amounts proposed for 1883-84 compare as follows with the grants for the current year, and the outlay of the past year :—

—	Amount proposed for 1883-84.	Grant for 1882-83.	Outlay in 1881-82.
	RS.	RS.	RS.
Productive Public Works, Capital Account	19,50,000	10,47,748	3,18,919
Do. Revenue Account ...	9,97,600	10,97,111	7,29,767
Irrigation and Navigation Works, Capital Account.	75,000	71,900	1,58,346
Do. Revenue Account ...	47,500	47,124	99,058
Irrigation and Navigation Works, Accounts not kept	15,00,000	15,54,713	10,11,908
State outlay on Guaranteed Irrigation Works ...	...	4,500	5,133
Agricultural Works	6,17,400	5,37,763	3,48,579
Protective Works, Capital	2,18,500	...	59,832
Do. Revenue Account	2,12,000	...	...
Total ...	56,18,000	43,60,859	26,71,710

Productive Public Works, Capital Account.—The grants under this head have been increased, in order to provide for the construction of the Cauvery regulators, and to admit of the works connected with the Godávari and Kistna Delta Systems, and the Sangum Anicut Project, being pushed forward more rapidly than in the current year. Of the amount provided for special tools and plant in the Kistna Delta, Rs. 14,300 are required on account of pumps and engines for unwatering foundations, as well as engines for mortar mills to be obtained from England.

Productive Public Works, Revenue Account.—A sum of Rs. 29,960 is provided for seven major works, under Extensions and Improvements, connected with the Cauvery Delta System, the estimates for which should be submitted by the Superintending Engineer, Sixth Circle, with the least practicable delay. Under Minor Works, the amount proposed for the Pennér Anicut System is Rs. 3,993 more than the current year's grant; while the amounts entered for the Godávari Western, and the Kistna Eastern, Divisions, are less by Rs. 5,000 and Rs. 1,000 respectively.

Under Maintenance and Repairs, a larger amount has been entered for the Kistna Delta System, in order to provide for the repair of damages caused by the floods of July last. The amount proposed for the Godávari Delta System is less by Rs. 15,000, as several works in the Central Delta will be improved or reconstructed, as provided for in the completion estimates.

Irrigation and Navigation Works, Capital Account.—The amount entered under this head provides for:—

(1) Improving the channels in the northern section of the Pálár Anicut System.

(2) For the storage works and land compensation for the Pelandorai Anicut System.

Complete estimates for the Pálár Anicut System are now under preparation by the officer in charge of the D. Project Division. The revised estimates for the Pelandorai Anicut Project have been returned to the Superintending Engineer for further revision, and resubmission with revenue information.

Irrigation and Navigation Works, Revenue Account.—The amounts proposed for the Chembrambakum Tank System, under Extension and Improvements, and Maintenance and Repairs, are more than those for the current year, as several distribution sluices have to be constructed, besides extensive silt clearing required in the new Bungaroo Channel. As the restoration of the Pelandorai Anicut and head sluice, and silt clearing in the main channel, will be completed this year, the amount proposed for this system, under Maintenance and Repairs, is less than the current year's grant.

Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept.—The amount proposed by the Superintending Engineer for improvements to the Bookapatnam Tank in the Bellary District has been increased from Rs. 3,930 to Rs. 5,047, as the current years' grant cannot be fully utilised. The amount proposed for the Papankal head sluice, in the Tinnevelly District, has been omitted, as the work will be constructed from funds provided by contribution. The grant proposed for the Kolingivady Channel, in the Coimbatore District, has also been omitted, as nothing is said about the estimate for the work.

The amount applied for minor original works in the Chingleput Division is in excess of the current year's grant by Rs. 18,000, and has been reduced to Rs. 15,000.

Estimates for several of the items now shown in the schedule have not been sanctioned, or even submitted to this office, and these items cannot find a place in the Budget Estimates unless the estimates are sanctioned.

The accompanying statement No. I, prepared in this office with reference to paragraph 4 of G.O., No. 109 I., of 9th February 1882, shows the number of Imperial tanks and channels the requirements of which have not been attended to. Tanks and channels the requirements of which have been estimated for are also shown in this statement, the area irrigated, the revenue derived, and the expenditure incurred up to end of 1881-82 being entered for each division. The Ganjam, the Godávari Western, the Kistna Eastern and the South Arcot Divisions have not been included in the statement, as no lists have been received from those divisions.

It will be seen from this statement that estimates, amounting to Rs. 8,58,159 have been prepared for 433 tanks, which irrigate 390,159 acres, yielding a revenue of Rs. 23,11,275. The expenditure to end of 1881-82 amounted to Rs. 4,62,752, leaving a balance of Rs. 3,95,407 against the estimates.

Estimates have yet to be prepared for 2,001 tanks, which irrigate 692,717 acres, yielding a revenue of Rs. 31,30,229, and Superintending Engineers should hasten the preparation of estimates for those tanks classed as Imperial which have not as yet been made safe and efficient. As the estimates for improving the tank system in each division are completed, a statement in the accompanying Form No. II should be submitted by the Superintending Engineers for transmission to the Government of India, with reference to paragraph 2 of their letter printed with Proceedings of Madras Government, No. 109 I., of 9th February 1882.

Agricultural Works.—The following amounts are proposed for expenditure, under this head, in anticipation of sanction to estimates:—

	Proposed Expenditure.
	RS.
Kistna River, right bank	20,000
Cheyár do. left bank	6,000
Coleroon and Cauvery embankments	50,000
Támbraparni River, left bank	25,000
Do. do. right bank	20,000

The Superintending Engineers concerned should expedite the submission of the estimate for these works.

Protective Public Works, Capital Account.—A sum of Rs. 1,00,000 has been entered for works connected with the Rushikulya Project. The estimates for this project have been returned by the Government of India for further information as to revenue and water-supply, and this will be furnished shortly. Rs. 25,000 have been entered for expenditure on the Kurnool Canal to cover cost of completion of works the original design of which may require modification.

A sum of Rs. 60,000 has been entered on account of establishment in the four Project Divisions, which should be separately charged for, under G.O., No. 1940 W., of 1st August 1882.

Revenue Account.—Under this head Rs. 25,000 have been entered for extensions and improvements to the Kurnool Canal and Rs. 1,25,000 for repair of anicut which has breached this year, and for repairs and maintenance of the canal and works. The amounts entered are rough approximations and aggregate Rs. 2,12,000 as shown below:—

	Proposed Expenditure.
	RS.
Extensions and Improvements	25,000
Maintenance and Repairs	1,25,000
Navigation Working Expenses	15,000
Establishment at 23 per cent.	37,950
Do. at 10 per cent. on Rs. 20,000, being the estimated revenue collection in the Public Works Department	2,000
Do. at 6 per cent. on the estimated revenue collection in the Civil Department	3,600
General Tools and Plant at 1½ per cent.	2,475
Special do.	925
Total ...	2,12,000

OOTACAMUND,
2nd October 1882.

(Signed) J. O. HASTED, Colonel, R.E.,
Ag. Chief Engineer for Irrigation.

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. I.

Statement showing the Number of Imperial Tanks and Channels, the requirements of which have been estimated for and those not attended to.

Divisions.	Tanks and Channels which have to be attended to.			Tanks and Channels, requirements of which have been estimated for.							—
	No.	Area.	Revenue.	No.	Area.	Revenue.	Amount of Estimate.			Amount spent to end of 1881-82.	
							Original Works.	Repairs.	Total.		
1	2	3	4	5	6	7	8	9	10	11	12
			RS.			RS.	RS.	RS.	RS.	RS.	
Ganjam ..	..	..	..	..	..	..	..	..	..	..	Lists have not been received.
Vizagapatam ..	18	8,655	46,916	7	3,298	9,950	262	4,731	4,993	3,248	
Godávari Eastern.	..	..	..	..	..	..	..	..	..	..	Do.
Godávari Western.	25	13,116	32,460	2	1,039	2,155	675	375	1,050	..	
Kistna Eastern.	10	3,457	10,800	..	..	..	..	..	..	..	
Kistna Western.	..	..	..	..	..	..	..	..	..	..	Do.
Nellore ..	147	93,676	4,00,071	72	69,570	2,72,411	26,308	61,687	87,995	47,780	
Cuddapah ..	92	26,456	1,17,100	40	27,502	1,23,714	32,041	67,763	99,804	62,737	
Kurnool ..	57	18,770	1,07,260	6	7,178	62,175	20,404	5,500	25,904	19,738	
Bellary ..	149	79,871	4,17,502	2	2,276	16,496	38,547	7,920	46,467	12,000	
Chingleput ..	531	183,334	6,87,757	52	31,506	1,18,167	30,149	76,760	1,06,909	12,344	
North Arcot ..	438	56,924	3,19,765	41	7,993	38,050	10,993	47,773	58,766	42,977	
South Arcot ..	..	..	..	..	..	..	..	..	..	..	Do.
Salem ..	83	21,416	1,21,316	22	6,941	40,447	93,950	32,699	1,26,649	79,793	
Coimbatore ..	42	18,107	89,413	45	56,946	3,97,844	23,412	73,241	96,653	73,744	
Tanjore ..	22	7,807	23,822	2	1,493	6,435	1,545	1,380	2,925	..	
Negapatam ..	28	12,958	41,514	18	8,516	30,556	..	3,276	3,276	2,637	
Trichinopoly.	75	40,262	1,69,322	31	70,593	3,14,177	9,227	47,235	56,462	39,471	
Madura ..	204	82,003	3,60,004	27	17,463	77,731	4,792	13,759	18,551	4,184	
Tinnevelly ..	80	25,905	1,85,207	66	77,840	8,00,967	20,239	1,01,516	1,21,755	62,099	
Total ..	2,001	692,717	31,30,229	433	390,159	23,11,275	3,18,544	5,45,615	8,58,159	4,62,752	

N. B.—The number of Tanks and Channels in this statement does not include those which do not require attention.

No. II.

Statement showing the Estimated Cost of improving Tanks in __________ District.

Name of Talak.	Name of Village.	Name of Tank.	Source of Supply.	Present.		Ultimate.		Amount of Estimates.			Expenditure to end of 1880-81.		
				Area irrigated.	Revenue.	Area irrigated.	Revenue.	Original Works.	Repairs.	Total.	Original Works.	Repairs.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
								RS.	RS.	RS.	RS.	RS.	RS.

Rough Estimate of Outlay on Irrigation and Navigation and Agricultural Works in 1883-84 compared with Grants for 1882-83 and Outlay in 1881-82 arranged by Budget and Departmental heads.

—	Proposed Grant, 1883-84.	Grant for 1882-83.	Outlay in 1881-82.
IMPERIAL.	RS.	RS.	RS.
37. PRODUCTIVE PUBLIC WORKS, CAPITAL ACCOUNT.			
I. Irrigation and Navigation.			
Works	15,37,076	8,27,006	2,25,090
Establishment	3,53,528	1,72,655	51,785
Tools and Plant	59,396	48,087	42,044
Total ...	19,50,000	10,47,748	3,18,919
33. IRRIGATION AND NAVIGATION.			
II. Productive Public Works, Revenue Account.			
Extensions and improvements	83,960	73,360	54,962
Maintenance and repairs	3,85,000	3,95,000	3,81,040
Establishment	4,72,606	5,74,042	2,34,227
Tools and Plant	56,034	54,709	58,411
Refund of revenue	...	...	1,127
Total ...	9,97,600	10,97,111	7,29,767
III. Irrigation and Navigation Works for which Capital and Revenue Accounts are kept—Capital.			
Works	61,432	57,291	1,23,398
Establishment	12,737	13,177	34,430
Tools and Plant	831	1,432	2,746
Less receipts on Capital Account	...	...	— 2,228
Total ...	75,000	71,900	1,58,346
IV. Irrigation and Navigation Works for which Capital and Revenue Accounts are kept—Revenue.			
Extensions and improvements	8,619	5,000	2,475
Maintenance and repairs	29,500	32,500	68,850
Establishment	8,809	8,686	25,838
Tools and Plant	572	938	1,895
Total ...	47,500	47,124	99,058
V. Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept.			
Works	3,30,972	3,68,456	1,66,745
Repairs	9,12,000	9,10,200	6,13,752
Establishment	2,41,383	2,49,091	2,14,890
Tools and Plant	15,645	26,966	16,455
Refund of revenue	...	...	66
Total ...	15,00,000	15,54,713	10,11,908
State outlay on Guaranteed Irrigation Works	...	4,500	5,133
VI. Agricultural Works.			
Works	2,69,378	2,47,700	1,06,531
Repairs	2,25,000	1,80,000	1,56,582
Establishment	1,15,607	99,371	80,096
Tools and Plant	7,415	10,692	6,564
Refund of revenue	...	...	106
Suspense account	...	...	— 1,300
Total ...	6,17,400	5,37,763	3,48,579
Total, 33. Irrigation and Navigation and Agricultural Works ...	32,37,500	33,13,111	23,52,791

Rough Estimate of Outlay on Irrigation and Navigation and Agricultural Works, &c.—*cont.*

—	Proposed Grant 1883-84.	Grant for 1882-83.	Outlay in 1881-82.
IMPERIAL—*cont.*	RS.	RS.	RS.
PROTECTIVE PUBLIC WORKS, CAPITAL ACCOUNT.			
Works	1,25,000	...	37,227
Establishment	88,750	...	20,498
Tools and Plant	4,750	...	2,107
Total ...	2,18,500	...	59,832
PRODUCTIVE PUBLIC WORKS, REVENUE ACCOUNT.			
Works	25,000	...	...
Repairs	1,40,000	...	...
Establishment	43,550	...	...
Tools and Plant	3,450	...	...
Total ...	2,12,000	...	...
Total, Protective Public Works ...	4,30,500	...	...
Grand Total ...	56,18,000	43,60,859	26,71,710

ROUGH ESTIMATE of the probable requirements of the Irrigation Works in the Madras Presidency for 1883-84

Division.	Detail of Funds, Systems, Projects, &c.	Amount of Estimate.	Sum that can be spent.	Remarks and References.
	IMPERIAL.	RS.	RS.	
	37. PRODUCTIVE PUBLIC WORKS—CAPITAL ACCOUNT.			
	I. IRRIGATION AND NAVIGATION.			
	Godávari Delta System.			
Godávari ...	Eastern Delta.—Completion Estimates.	14,20,000	92,384	*Vide* G.O., No. 259 I. of 21st March 1882.
Do. ...	Central Delta do. ...	9,20,000	1,58,800	Do. do.
Do. ...	Western Delta do. ...	15,30,000	77,530	Do. do.
	Total ...	...	3,28,714	
	Kistna Delta System.			
	Completion Estimates.			
Kistna Eastern Division.	Ryves' Canal	5,76,951	21,000	Government of India Register No. 23 I. of 1881-82.—*Vide* G.O., No. 291 I. of 28th March 1882.
	Head Works	1,30,000	9,000	
	Masulipatam Canal ...	2,43,520	1,530	
	Ellore do. ...	2,21,270	66,920	
	Bank do. ...	10,70,315	15,000	
	Polraz do. ...	2,98,067	58,610	
	Pulleru do. ...	2,67,890	6,810	
	Peddakommeieru Drain and its affluents.	41,686	6,000	
	Pedda Lanka Drain ...	98,240	12,000	
	Chendroyakodu do. ...	1,43,402	10,000	
	Polraz do. ...	1,87,130	15,000	
	Uppulur do. ...	28,725	4,000	
	Luzzabunda do. ...	2,19,034	10,000	
	Kanakavalli do. ...	27,184	3,000	
	Total, Eastern Division.	...	2,38,870	

Rough Estimate of the probable requirements of the Irrigation Works in the Madras Presidency for 1883-84—*cont.*

Division.	Detail of Funds, Systems, Projects, &c.	Amount of Estimate.	Sum that can be spent.	Remarks and References.
	IMPERIAL—*cont.*	RS.	RS.	
	37. PRODUCTIVE PUBLIC WORKS—CAPITAL ACCOUNT —*cont.*			
	Kistna Delta System—cont.			
	Completion Estimates—cont.			
Kistna Western Division.	Main Canal	5,38,020	50,500	Government of India Register No. 23 I. of 1881-82.—*Vide* G.O., No. 291 I. of 28th March 1882.
	Commamur Canal	9,98,511	66,100	
	Bank do.	4,09,510	63,500	
	Repalle Main Drain ...	2,51,087	34,000	
	Tungabhadra do. ...	6,15,191	25,000	
	Total, Western Division.	...	2,39,100	
	Total, Kistna Delta System.	...	4,77,970	
	Sangum Anicut System.			
Sangum Division.	Sangum Anicut Project ...	23,64,935	5,00,000	Government of India Register No. 4 I. of 1881-82. —*Vide* G.O., No. 352 I. of 2nd June 1881.
	Cauvery Delta System.			
Tanjore Division.	Cauvery and Vennar regulators.	6,88,000	2,00,000	Government of India Register No. 20 I. of 1881-82. —*Vide* G.O., No. 208 I. of 6th March 1882.
	Srívaikuntham Anicut System.			
Tinnevelly Division.	Srívaikuntham Anicut Project.	10,59,051	30,392	G.O., No. 380 I., dated 8th May 1882.
	Total Works ...	...	15,37,076	
	General Establishment at 23 per cent.	...	3,53,528	
	Do. Tools and Plant at $1\frac{1}{2}$ per cent.	...	23,056	
	Special Plant	...	*36,340	
	Total ...	...	19,50,000	
	II. PRODUCTIVE PUBLIC WORKS—REVENUE ACCOUNT.			
	Extensions and Improvements.			
	Major Works.			
Tanjore ...	Arasillár-Nattár heads.—Converting bridges into regulators.	8,000	8,000	Estimate is under preparation.
Do. ...	Providing new head sluice to Vadavár.	6,260	6,260	Do. do.

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* Kistna Delta—	RS.	
English stores	14,300	
Six composite punts	14,640	
Ten Archimedean screws ..	2,400	
		31,340
Sangum Project		5,000
		36,340

Rough Estimate of the probable requirements of the Irrigation Works in the Madras Presidency for 1883-84—*cont.*

Division.	Detail of Funds, Systems, Projects, &c.	Amount of Estimate.	Sum that can be spent.	Remarks and References.
	II. PRODUCTIVE PUBLIC WORKS—REVENUE ACCOUNT—*cont.*	RS.	RS.	
	Extensions and Improvements—cont.			
	Major Works—cont.			
Negapatam...	Constructing a syphon across the Pamanyár for Rajagopálapuram.	5,500	1,000	Estimate is under preparation.
Do. ...	Addapár.—Fitting screw shutters to the bridge at Pamany and North and South Rajenvoikal head sluices.	3,700	3,700	Do. do.
Do. ...	Pandavayaur-Edayaur.—Constructing a dam across and a head sluice.	6,380	5,000	Do. do.
Do. ...	Improvements to the Carapidagai irrigation.	3,000	3,000	Estimates will be prepared shortly.
Do. ...	Corayaur.—Fitting screw shutters to the bridge on Road No. 18.	5,000	3,000	Do. do.
	Total, Major Works ...	...	29,960	
	Minor Works ...	...	54,000	*Vide* detailed list.
	Total, Extensions and Improvements.	...	83,960	
	Maintenance and Repairs ...	...	3,85,000	*Vide* detailed list.
	Total, Works ...	...	4,68,960	
	General Establishment at 23 per cent.	...	1,07,860	
	Establishment at 10 per cent. on Rs. 1,26,660, being the estimated revenue to be collected in the Public Works Department.	...	12,666	
	Establishmet at 6 per cent. on Rs. 58,68,000, being the estimated revenue collected in the Civil Department.	...	3,52,080	
	General Tools and Plant at 1½ per cent.	...	7,034	
	Special Plant, Godávari ..	...	32,500	
	Do. do., Kistna ...	...	16,500	
	Total ...	...	9,97,600	

Rough Estimate of the probable requirements of the Irrigation Works in the Madras Presidency for 1883-84—*cont.*

Division.	Detail of Funds, Systems, Projects, &c.	Amount of Estimate.	Sum that can be spent.	Remarks and References.
	III. IRRIGATION AND NAVIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—CAPITAL.	RS.	RS.	
	Pálár Anicut System.			
North Arcot.	Northern section improvements.	3,11,723	40,000	G.O., No. 93 I. of 8th February 1881. Estimate has been returned by the Government of India for revision.—*Vide* G.O., No. 366 I. of 9th June 1881.
	Pelandorai Anicut System.			
South Arcot.	Storage works	26,050	15,378	Revised estimates are under preparation.
Do. ...	Compensation for the land taken up by the Project.	7,576	6,054	Do. do.
	Total Works ...	...	61,432	
	General Establishment at 23 per cent.	...	12,737	
	Tools and Plant at 1½ per cent.	...	831	
	Total ...	...	75,000	
	IV. IRRIGATION AND NAVIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—REVENUE.			
	Extensions and Improvements.	...	8,619	*Vide* detailed List.
	Maintenance and Repairs.	...	29,500	
	Total Works ...	...	38,119	
	General Establishment at 23 per cent.	...	8,767	
	Establishment at 10 per cent. on Rs. 420, being the estimated revenue to be collected in the Public Works Department.	...	42	
	General Tools and Plant at 1½ per cent.	...	572	
	Total ...	...	47,500	

Rough Estimate of the probable requirements of the Irrigation Works in the Madras Presidency for 1883-84—*cont.*

Division.	Detail of Funds, Systems, Projects, &c.	Amount of Estimate.	Sum that can be spent.	Remarks and References.
	V. IRRIGATION AND NAVIGATION WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT.	RS.	RS.	
	Original Works, Major.			
Vizagapatam.	Kristnamrazu channel improvements.	16,295	5,430	Only one-third of the estimated cost will have to be paid by Government and the remaining by the proprietors of Nakkapilly and Kassimkota. Plan and estimate are with Collector and will be forwarded for sanction as soon as received.
Do. ...	Reconstructing Pulapurty head sluice.	4,000	4,000	Estimate will be prepared shortly.
Bellary ..	Bookapatam tank improvements.	18,930	5,047	G.O., No. 334 I., of 14th April 1882.
Coimbatore...	Improvements of the Chitrachavadi channel and tanks supplied by it.	* 39,533	20,000	*Inclusive of the contribution from Local Fund G.O., No. 460 I. of 12th June 1882.
Do. ...	Restoring Yenamangalam tank.	14,980	9,980	Inclusive of the contribution from Local Fund G.O., No. 393 I. of 16th May 1882.
Do. ...	Improving Thodumpolliem tank.	7,850	7,850	Estimates are under examination in Superintending Engineer's Office.
Do. ...	Improving the last $8\frac{3}{4}$ miles of Pullapolliem channel.	21,300	10,000	Estimates will shortly be examined by the Superintending Engineer.
Do. ...	Improving the first 5 miles of the Kalingaroyan channel.	24,300	15,000	Estimates are under preparation.
Salem ...	Baroor Project	2,35,500	25,000	Revised estimates have been prepared and the revenue information is awaited.
Do. ...	Morandahully Project ...	3,13,500	25,000	Estimates are under examination in Superintending Engineer's Office.
Do. ...	Restoring Serukalay tank.	...	7,500	Do. do. do.
Do. ...	Do. Ahtoor anicut ...	15,820	7,000	Estimates not approved by the Superintending Engineer, who wishes to inspect the work and give orders for new designs.
South Arcot.	Alungal channel head sluice.	9,250	9,250	Estimates have been prepared and will be submitted shortly.
Do. ...	Vylore tank, constructing a weir.	5,260	5,260	

Rough Estimate of the probable requirements of the Irrigation Works in the Madras Presidency for 1883-84—*cont.*

Division.	Detail of Funds, Systems, Projects, &c.	Amount of Estimate.	Sum that can be spent.	Remarks and References.
	V. IRRIGATION AND NAVIGATION WORKS FOR WHICH NEITHER CAPITAL NOR REVENUE ACCOUNTS ARE KEPT—*cont.*	RS.	RS.	
	Original Works, Major—cont.			
Negapatam...	Oliakunnam tank improvements.	5,740	1,900	Under reference with the Executive Engineer—*vide* Chief Engineer's Memorandum, No. 47 T.J., of 25th July 1882.
Tinnevelly ...	Mánúr tank weir—constructing the,	2,755	2,755	Estimate has been received and will be sanctioned shortly.
Do. ...	Perunkulam surplus channel.	35,000	10,000	Estimate under preparation.
	Total, Major Works ...	...	1,70,972	
	Minor Original Works ...	...	1,60,000	*Vide* detailed list.
	Repairs	...	9,12,000	
	Total, Works and Repairs.	...	12,42,972	
	General Establishment at 23 per cent. on Rs. 7,12,000, exclusive of the grant for repairs to Minor Irrigation Works.	...	2,39,883	
	General Establishment at 10 per cent on Rs. 15,000, the estimated revenue collected in the Public Works Department.	...	1,500	
	General tools and plant at $1\frac{1}{2}$ per cent.	...	15,645	
	Total ...	...	15,00,000	
	AGRICULTURAL WORKS.			
	Major Original Works.			
	River Embankments.			
Godávari Eastern Division.	Gowtami-Godávari left bank, Rajahmundry to Yanam.	57,990	15,000	G.O., No. 2575, of 27th September 1876.
Do. ...	Vasista-Godávari left bank to Gunnaram Aqueduct.	34,400	8,000	G.O., No. 3373, of 12th December 1876.
Do. ...	Gowtami-Godávari and Vridhi-Gowtami Godávari right bank to Mokaltippa.	68,670	10,000	G.O., No. 346 I., of 25th September 1877.
Do. ...	Polavaram island embankment.	59,150	5,000	G.O., No. 95, of 22nd January 1877.

Rough Estimate of the probable requirements of the Irrigation Works in the Madras Presidency for 1883-84—*cont.*

Division.	Detail of Funds, Systems, Projects, &c.	Amount of Estimate.	Sum that can be spent.	Remarks and References.
	AGRICULTURAL WORKS—*cont.*	RS.	RS.	
	Major Original Works—cont.			
	River Embankments—cont.			
Godávari Eastern Division.	Vasista-Godávari below Gunnaram Aqueduct, left bank.	28,535	5,000	G.O., No. 349 I., of 27th September 1877.
Do. ...	Godávari left bank, Purushothapatnam to Rajahmundry.	1,25,110	15,000	G.O., No. 708, of 8th March 1876.
Godávari Western Division.	Godávari right bank, from Vijeshwaram to Polavaram.	1,48,730	35,606	G.O., No. 1998, of 4th August 1876.
Do. ...	Vasista-Godávari right bank, from anicut to Narsápur lock.	62,500	1,772	G.O., No. 713 I., of 6th December 1879.
Kistna Eastern Division.	Kistna River, left bank below anicut.	54,314	20,000	G.O., No. 3528, of 22nd December 1876. Revised estimates are ready for submission.
Kistna Western Division.	Raising the Kistna River right bank to 5 feet above M.F.L.	...	20,000	Estimate under preparation.
Cuddapah ...	Pápaghni right embankment above railway.	17,740	8,000	G.O., No. 1420, of 25th April 1877.
Do. ...	Cheyár river left embankment above the railway.	12,760	6,000	The estimate is under preparation.
Tanjore ...	Coleroon, Cauvery, &c., river embankments.	...	50,000	Estimate under preparation.
Tinnevelly...	Támbraparni River, left flood bank, from $7\frac{1}{2}$ miles to $13\frac{1}{2}$ miles below Srívaikuntham anicut.	60,000	25,000	Do. do.
Do. ...	Támbraparni River, right bank, below Srívaikuntham Anicut.	45,000	20,000	Do. do.
	Total ...	...	2,44,378	
	Minor Works	...	25,000	
	Repairs	...	2,25,000	
	Total, Works and Repairs.	...	4,94,378	
	General Establishment at 23 per cent.	...	1,13,707	
	Do. at 10 per cent. on Rs. 99,000, the estimated revenue collected in the Public Works Department.	...	1,900	
	General Tools and Plant at $1\frac{1}{2}$ per cent.	...	7,415	
	Total ...	...	6,17,400	

Rough Estimate of the probable requirements of the Irrigation Works in the Madras Presidency for 1883-84—*cont.*

Division.	Detail of Funds, Systems, Projects, &c.	Amount of Estimate.	Sum that can be spent.	Remarks and References.
	AGRICULTURAL WORKS—*cont.*	RS.	RS.	
	Protective Public Works.			
	Capital Account.			
	Rushikulya Project works.	28,39,641	1,00,000	G.O., No. 378 I., dated 8th May 1882.
	Kurnool Canal	...	25,000	
	Establishment at 23 per cent.	...	28,750	
	Establishments of the (4) Project Divisions.	...	60,000	
	General Tools and Plant at $1\frac{1}{2}$ per cent.	...	1,875	
	Special Tools and Plant ...	...	2,875	
	Total ...	...	2,18,500	
	Revenue Account.			
	Kurnool Canal works ...	...	25,000	
	Maintenance and repairs ...	...	1,25,000	
	Navigation working expenses.	...	15,000	
	Establishment at 23 per cent.	...	37,950	
	Establishment at 10 per cent. on Rs. 20,000, being the estimated revenue collection in the Public Works Department.	...	2,000	
	Do. at 6 per cent. on the estimated revenue collection in the Civil Department.	...	3,600	
	General Tools and Plant ...	...	2,475	
	Special Tools and Plant ...	...	975	
	Total ...	...	2,12,000	
	Total, Protective Public Works.	...	4,30,500	

Detail of proposed Grants for Minor Works and Repairs to Irrigation and Navigation Works for which neither Capital nor Revenue Accounts are kept.

Divisions.	Minor Works.		Repairs.	
	Proposed Grant for 1883-84.	Grant for 1882-83.	Proposed Grant for 1883-84.	Grant for 1882-83.
	RS.	RS.	RS.	RS.
Ganjam	9,000	3,500	20,000	18,000
Vizagapatam	1,500	1,500	7,000	7,000
Godávari Eastern Division	3,000	3,000	12,000	12,000
Do. Western do.	4,500	1,000	10,000	3,000
Kistna Eastern do.	2,000	1,500	7,000	7,000
Do. Western do.	...	...	...	...
Nellore	10,000	6,000	40,000	30,000
Bellary	2,500	1,500	40,000	30,000
Cuddapah	2,000	2,000	20,000	20,000
Kurnool	3,000	2,500	20,000	10,000
Presidency	...	...	3,000	3,000
Chingleput	15,000	10,000	60,000	40,000
North Arcot	12,000	9,000	60,000	55,000
South do.	13,000	8,000	1,15,000	65,000
Salem	8,000	5,000	30,000	20,000
Coimbatore	7,000	7,000	60,000	60,000
West Coast	200	200	2,000	2,000
Tanjore	2,000	1,000	10,000	10,000
Negapatam	4,000	10,500	6,000	11,200
Madura	12,000	10,000	70,000	40,000
Trichinopoly	8,000	8,000	50,000	50,000
Tinnevelly	6,000	6,000	70,000	70,000
Reserve	35,500	43,300	...	1,47,000
Minor Irrigation Works under the charge of Collectors	...	...	2,00,000	2,00,000
Total ...	1,60,000	1,40,500	9,12,000	9,10,200

Detail of proposed Grants for Extensions and Improvements and Maintenance and Repairs.

Divisions.	Systems.	Extensions and Improvements.		Maintenance and Repairs.	
		Proposed Grant for 1883-84.	Grant for 1882-83.	Proposed Grant for 1883-84.	Grant for 1882-83.
	II. PRODUCTIVE PUBLIC WORKS.	RS.	RS.	RS.	RS.
	Revenue Account.				
Godávari Eastern Division.	Godávari Delta Eastern Section ...	5,000	5,000	45,000	60,000
Godávari Central Division.	Do. do. Central do. ...	3,000	3,000	20,000	35,000
Godávari Western Division.	Do. do. Western do. ...	10,000	15,000	80,000	65,000
	Total ...	18,000	23,000	1,45,000	1,60,000
Kistna Eastern Division.	Kistna Delta Eastern Section ...	5,000	6,000	85,000	75,000
Kistna Western Division.	Do. do. Western do. ...	4,000	4,000	65,000	53,000
	Total ...	9,000	10,000	1,50,000	1,28,000

Detail of proposed Grants for Extensions and Improvements, &c.—*cont.*

Divisions.	Systems.	Extensions and Improvements.		Maintenance and Repairs.	
		Proposed Grant for 1883-84.	Grant for 1882-83.	Proposed Grant for 1883-84.	Grant for 1882-83.
	II. PRODUCTIVE PUBLIC WORKS —*cont.*	RS.	RS.	RS.	RS.
	Revenue Account—cont.				
Nellore ...	Pennér Anicut System	7,000	3,007	15,000	15,000
Tanjore ...	Cauvery Delta System	8,000	8,007	30,000	30,000
Negapatam ...	Do. do.	10,000	10,000	30,000	30,000
	Total ...	18,000	18,007	60,000	60,000
Tinnevelly ...	Srívaikuntham Anicut System ...	2,000	2,000	15,000	15,000
...	Reserve	...	7,353	...	17,000
	Grand Total ...	54,000	73,360	3,85,000	3,95,000
	IV. IRRIGATION AND NAVIGATION WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT (REVENUE).				
Chingleput ...	Chembrambakam Tank	1,600	500	3,500	2,500
North Arcot ...	Pálár Anicut System	4,000	3,000	20,000	20,000
South Arcot ...	Pelandorai Anicut System ...	3,019	1,500	6,000	10,000
	Total ...	8,619	5,000	29,500	32,500

Detail of proposed Grants for Agricultural Minor Works and Repairs for 1883-84.

Divisions.	Minor Works.										Repairs.									
	River Conservancy.		River Embankment.		Drainages.		Miscellaneous.		Total.		River Conservancy.		River Embankment.		Drainages.		Miscellaneous.		Total.	
	1883-84.	1882-83.	1883-84.	1882-83.	1883-84.	1882-83.	1883-84.	1882-83.	1883-84.	1882-83.	1883-84.	1882-83.	1883-84.	1882-83.	1883-84.	1882-83.	1883-84.	1882-83.	1883-84.	1882-83.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam	..	..	..	..	..	..	..	..	..	..	..	..	2,000	1,000	..	..	..	..	2,000	1,000
Vizagapatam	..	..	..	..	..	..	..	..	..	..	500	500	..	..	..	..	..	..	500	500
Godávari Eastern Division ..	..	..	..	..	..	..	400	500	400	500	10,000	10,000	3,000	3,000	..	..	..	..	13,000	13,000
Do. Western do. ..	..	..	..	..	..	..	500	500	500	500	10,000	7,000	1,000	1,000	..	..	..	..	11,000	8,000
Kistna Eastern do. ..	..	..	..	..	1,000	2,000	500	500	1,500	2,500	2,500	1,000	5,000	1,700	500	500	..	..	8,000	3,200
Do. Western do. ..	500	..	..	..	..	..	..	..	500	..	1,000	1,000	2,000	2,000	..	..	..	..	3,000	3,000
Nellore	500	..	500	500	..	..	100	100	1,100	600	500	1,200	1,000	1,000	..	..	100	..	1,600	2,200
Cuddapah	..	..	..	..	..	..	..	..	..	..	500	500	500	500	..	..	..	..	1,000	1,000
Coimbatore	1,000	1,000	1,000	1,000	..	..	500	500	2,500	2,500	8,000	8,000	2,000	2,000	..	..	..	..	10,000	10,000
Salem	..	..	..	..	..	..	..	..	..	..	700	..	..	..	..	..	300	..	1,000	..
South Arcot	..	..	..	..	..	..	400	400	400	400	8,000	8,000	30,000	8,000	..	..	..	..	38,000	16,000
Chingleput	..	..	..	..	..	..	..	..	..	..	..	..	1,000	..	..	..	..	..	1,000	..
Tanjore	200	..	2,000	2,000	1,000	..	500	500	3,700	2,500	25,000	15,000	25,000	25,000	1,000	1,000	500	500	51,500	41,500
Negapatam	500	500	1,500	1,500	300	300	100	100	2,400	2,400	10,000	10,000	25,000	25,000	1,000	1,000	..	..	36,000	36,000
Trichinopoly	3,000	2,000	3,000	3,000	2,000	1,000	..	..	8,000	6,000	10,000	7,000	20,000	15,000	2,000	1,000	..	..	32,000	23,000
Tinnevelly	..	..	2,000	2,000	..	..	..	..	2,000	2,000	..	1,000	4,000	4,000	..	..	..	..	4,000	5,000
	5,700	3,500	10,000	10,000	4,300	3,300	3,000	3,100	23,000	19,900	86,700	70,200	1,21,500	89,200	4,500	3,500	900	500	2,13,600	1,63,400
Reserve	..	..	..	..	..	..	..	..	2,000	10,100	..	..	..	..	..	..	..	..	11,400	16,600
Total ..	5,700	3,500	10,000	10,000	4,300	3,300	3,000	3,100	25,000	30,000	86,700	70,200	1,21,500	89,200	4,500	3,500	900	500	2,25,000	1,80,000

No. 55.

Order—dated 13th October 1882, No. 812 I., Public Works.

Ordered that the rough estimate of the probable requirements of the Irrigation Branch of the Public Works Department be forwarded to the Government of India.

(Here enter No. 813 I., dated 13th October 1882.)

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To Superintending Engineers.
,, the Examiner, Public Works Accounts.
,, the Chief Engineer for Irrigation.
,, the Revenue Department.

Exd. C. Howarth.
Spare Copies

IRRIGATION.
ACCOUNT.

Govt. of {1882} Madras.
PUBLIC WORKS.

Dated October, 13th.

Recd. *Encl.*

G.O., 13th Oct. 1882, No. 812 I.

OCTOBER.
Nos. 54-55.

Irrigation Branch, Public Works Department.

Rough estimates of the probable requirements in 1883-84 of the —, ordered to be forwarded to the Government of India.

Tinnevelly Dn. office.
No. 20. Palamcottah 12th April 1883.

From,

The Executive Engineer
Tinnevelly Division

To,

The Superintending Engineer
6th circle.

Sir,

With reference to G.O. No. 1526 W dated 19th June 1882, sanctioning a Temporary Establishment of two Draftsmen for my office, I have now the honor to request that one Temporary Draftsman may be sanctioned for the whole of the current official year.

2. It is difficult to lay down exactly the work this man will be employed on, beyond that he will assist generally in the Draftsman's work of the office. The permanent Establishment consisting of two Draftsmen is not sufficient for the work, and if a temporary man is not sanctioned there will be great delay

in the submission of Estimates. Estimates for a large number of Police stations and Huts and for several Sub-Registrar's offices have been called for, but I find it very difficult to get these ready. The field work for improving three channels of the Settar River which are very much in need of improvements is also ready, but owing to the paucity of Draftsman it will take a long time before the estimates can be prepared.

3. In this connection I may mention that statements which are difficult to prepare and which require the Draftsmen's attention are frequently being called for. This draws off the men from the proper work and leads to great delay in the preparation of estimates. As to grouping tanks in connection with Minor and Imperial works several statements were prepared and now a large statement* showing the Imperial Irrigation works in need of repairs in the whole District which will be large and difficult to prepare has been called for.

* G.O. No 812 I / 13-10-82

I have &c.

Signed/ J. W. Martin
Executive Engineer.

No 31 T.N.

Copy forwarded to the Chief Engineer P.W.D with a recommendation that the entertainment of a Draftsman on Rs 40 per mensem for one year (viz 1st April 1883 to 31st March 1884) may be sanctioned as requested by the Executive Engr.

2- In G.O. No 1526 W of 19 June 1882 sanction was granted for 2 temporary draftsmen for this Division - There is no doubt but that this Division requires assistance.

Lt Col R.E.
Supg. Engineer. Circle.

Trichinopoly
16th April /83

No 1528W - 19-6-82.
No 812 I - 13-10-82.

No 1246 Wd/26th April/83.

B

The employment of a temporary draughtsman on Rs 40 per mensem during the current official year, in the Tinnevelly Division Office, is sanctioned - The necessary appropriation of funds will be made hereafter.

2. This sanction has been registered Provl No 8 ... of 1883-84, & classified as Estab. Temporary.

D.C.
B.L. 8596.
1-4-82.

27/4

S.E. Sixth Circle ✓

Ex. Dn. W ...

Ordy 20/5 Dct 28-5

PWC No 3278

From,

The Supdt Engineer
6th Circle

To,

The Chief Engineer
P.W.D.

No 31 T.N.

Dated 16th April /83.

No 1246 Wd/26-4-83.

Temporary Draughtsman

Requests sanction to the entertainment of a — in the Tinnevelly Division for one year from 1st April /83 —

Filed in Receipt Regr

Tinnevelly Dn. office,
18 March 1884.

No 553.

From
The Executive Engineer
Tinnevelly Division.

To
The Superintending Engineer
6th circle.

Sir,

I have the honor to request you will be good enough to obtain sanction for the continued employment of the Temporary Draftsman sanctioned in G.O. No 1246W dated 26th April 1883 up to 31st March 1885.

2. I have already in my letter No 373 dated 9th November 1883 reported that there are several works for which estimates are required; and in my scheme of works to be undertaken in 1884-85 several works are shown for which estimates must be submitted. But unless a Temporary Draftsman is appointed there will be great delay about these estimates. I think therefore that a temporary man should be appointed for the whole year.

I have &c.
Signed/ J. W. Martin
Executive Engineer

Copy

No 855 T.N.

Copy forwarded to the Chief Engineer P.W.D. who is requested to be good enough to sanction the confirmed employment of the Draughtsman sanctioned in G.O No 1246 W of 26: April 1883, up to 31st March 1885.

Lt Col RE

Supt. Engineer, Circle.

Trichinopoly }
25: March 84 }.

Nos 1526 W. 19.6.82
812 I. 13.10.82.
1246 W. 26.4.83.

No. 2776

From,

The Supt. Engineer
6 Circle

To,

The Chief Engineer
P.W.D.

No. 855 T.N

Dated 25th March/84

No. 870 W/1st April

Temporary Draughtsman sanctioned in G.O. No. 1246 W of 26th April /83.

Requests sanction to the continued employment of the — up to 31st March /85

PUBLIC WORKS DEPARTMENT.

No. 870 W

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 1st April

READ the following

From the S. Engr VI Circle H.E No. 855 T.N d/ 25th March/84

The sanction accorded in G.O. 1246 W dated 26th April 1883, to the employment in the Tinnevelly Dn of a temporary draftsman on Rs 40 per mensem, is extended to the end of 1884-85.

This sanction has been registered as Provincial No. 2 W of 1884-85 and classified as "Establishment, temporary".

26.3.84

R.C.

B. No. 659 W. 17-3-85.

S. Engr VI Circle
per P.W. Actr
Despd 2/4/84

R.B. 99C 3/4

8th June 1885, No. 1327 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

Read—the following papers:—

From Lieutenant-Colonel H. R. MEAD, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Kodaikanal, 5th May 1885, No. 195 T.J.

With reference to G.O., No. 389 I., dated 22nd April 1885, directing me to arrange for the transfer of the Vedarniem canal to the charge of the Executive Engineer, Negapatam division, I have the honor to point out that extra establishment will be required to enable him to carry on properly the work of maintenance; and I therefore request that you will obtain the early sanction of Government for the entertainment of—

			RS.
1	Temporary	overseer, 2nd class	80
1	Do.	clerk	15
1	Do.	lascar	6

for employment on the canal maintenance. Besides this establishment, other petty establishment will be required; but this, I suppose, can be charged for from the maintenance and sanctioned by local authority.

2. As soon as the above establishment is sanctioned and entertained, I propose that the canal shall be taken over. It is useless my attempting to do so before, as the Negapatam division, as you are aware, suffered seriously during the rains in October, November, and December. It is now in charge of Mr. Assistant Engineer Foord (the Executive Engineer, Mr. Wilks, being on privilege leave), who has, in the heavy repairs now in progress, more work than he can properly supervise.

3. In G.O., No. 883 I., dated 1st October 1884, an estimate for putting the canal in thorough order was ordered. I regret to say that, owing to the serious breaches, &c., that have occurred in the Negapatam division, little or nothing has been done towards its preparation.

4. At present the canal is being repaired and cleared by the Salt department on an estimate sanctioned by the Board of Revenue. This work I do not propose to take over; it is better in every way that it should be completed by the Salt department, who have begun and, I believe, executed a great portion of the work.

5. I will address you further as regards the estimate called for, of probable receipts from traffic, and expenditure for maintenance, and also with regard to applicability of the navigation rules to the canal. Before doing so, it is necessary for me to make references to the Salt Commissioner and Collector. I fear there will be some delay in this; but I would propose, as soon as the establishment asked for is sanctioned, that the canal should be taken over (the work of the repairs now in progress remaining under charge of the Salt department until completion), that I should be allowed a small grant for maintenance, and that all boats should be allowed, as now, free on the canal until the question of licenses is settled. This last will be difficult, and the canal runs partly in three rivers that are open to the sea, and are, and, I suppose, will remain, free for boats to ply on without licenses.

No. 58 E.W.

Forwarded to the Chief Engineer, Public Works Department, with a recommendation that the temporary establishment applied for may be sanctioned, as it is absolutely necessary to look after the Vedarniem canal, which has, in G.O., No. 389 I., dated 2nd April 1885, been ordered to be transferred to the Public Works Department.

2. It will be seen from paragraph 1 of the letter from the Commissioner of Salt and Abkari Revenue, communicated with proceedings of Madras Government, No. 2282, Revenue, dated 4th May 1885, that arrangements have been made for the stoppage of the repairs to the canal which were commenced by the Salt department. Government, in the Revenue Department, may be requested to arrange for the repairs being taken up again and completed by the Salt department.

3. The Superintending Engineer has been informed that immediately after the transfer of the canal to the Public Works Department a license fee of 1 rupee per ton should, as directed in G.O., No 389 I., of 22nd April 1885, be collected from every boat plying on the canal, and that the navigation rules in force on the Buckingham canal, which are printed with G.O., No. 261 I., dated 21st March 1883, should be introduced.

Ootacamund,
27th May 1885.

(Signed) W. B. deWINTON,
for Chief Engineer for Irrigation.

Order—dated 8th June 1885, No. 1327 W., Public Works.

The entertainment of the temporary establishment * required in the Negapatam division, for duty in connection with the Vedarniem canal, is sanctioned.

* 1 Overseer on Rs 80 per mensem.
1 Clerk on ,, 15 ,,
1 Lascar on ,, 6 ,,

2. The overseer will be nominated by the Chief Engineer, Public Works Department.

3. This sanction has been registered as Provincial No. 21 W. of 1885-86, and classified as Establishment, Temporary.

4. The subject of paragraph 2 of the note by the Chief Engineer for Irrigation will be referred to the Revenue Department for consideration.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, VI Circle.
,, Examiner, Public Works Accounts.
,, Chief Engineer for Irrigation.
,, ,, ,, Public Works Department.
,, Revenue Department.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of (1885) Madras

PUBLIC WORKS.

Dated June, 8th.

Recd. *Encl.*

G.O., 8th June 1885, No. 1327 W.

JUNE.

Temporary Establishment

Entertainment of the — required for duty in connection with the Vedarniem canal, Negapatam division, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers :—

No. 236 T.J.

VI CIRCLE.—Statement of Proposition for temporary Establishment required for 1885-86.

ORDER SANCTIONING PRESENT ESTABLISHMENT. GOVERNMENT OF MADRAS, PUBLIC WORKS DEPARTMENT.		Office to which Proposition refers.	NATURE OF CHARGE.												PROPOSITION.						
			Present Scale.						Proposed Scale.						Permanent.		Temporary.				—
					Pay.						Pay.				Increase per Month.	Decrease per Month.	Increase per Month.		Decrease per Month.		
No.	Date.		Number.	Designation.	Minimum.	Increment.	Maximum.	Fixed.	Number.	Designation.	Minimum.	Increment.	Maximum.	Fixed.	Amount.	Amount.	Period.	Amount.	Period.	Amount.	
G.O., No. 1962 W.	Dated 11th August 1884.	Cauvery and Vennár Regulator Division.		*Petty Establishment.*	RS	RS	RS	RS.		*Petty Establishment.*	RS	RS	RS	RS.	RS.	RS.		RS.		RS.	
			1	Storekeeper	..	..	..	25	1	Storekeeper	..	..	..	25	..	..	..	..	..	..	
			6	Lascars at Rs. 6 each ..	..	..	..	36	5	Lascars at Rs. 6 each ..	..	..	..	30	..	..	..	..	1	6	
				Office Establishment.						*Office Establishment.*											
			1	Clerk, III class, 2nd grade	..	..	..	60	1	Clerk, III class, 2nd grade	..	..	..	60	..	..	..	..	..	..	
			1	Do. IV do. 2nd do.	..	..	..	30	1	Do. IV do. 2nd do.	..	..	..	30	..	..	..	..	..	..	
			2	Do. IV do. 3rd do. at Rs. 20 each.	..	..	..	40	2	Do. IV do. 3rd do. at Rs. 20 each.	..	..	..	40	..	..	..	..	..	..	
			1	Draftsman, 1st class ..	..	..	..	50	1	Draftsman, 1st class ..	..	..	..	50	..	..	..	..	..	..	
			1	Do. 3rd do. ..	..	..	..	20	1	Do. 3rd do. ..	..	..	..	20	..	..	..	..	..	..	
			1	Messenger	..	..	..	7	1	Messenger	..	..	..	7	..	..	..	..	..	..	
			1	Do.	..	..	..	6	1	Do.	..	..	..	6	..	..	..	..	..	..	
			3	Clerks, V class, 1st grade, at Rs. 15 each.	..	..	..	45	2	Clerks, V class, 1st grade, at Rs. 15 each.	..	..	..	30	..	..	..	..	1	15	
				Medical Establishment.						*Medical Establishment.*											
			1	Hospital Assistant ..	..	..	..	40	1	Hospital Assistant ..	..	..	..	*50	..	..	1	10	..	..	* Includes charge allowance, viz., Rs. 10 per mensem.
			1	Do. Peon ..	..	..	..	5	1	Do. Peon.. ..	..	..	..	5	..	..	..	..	..	..	
				Total per Mensem ..	..	..	..	364		Total per Mensem ..	..	..	..	353	..	..	..	10	..	21	

Statement of Proposition for temporary Establishment required for 1885-86—*cont.*

Order sanctioning present Establishment. Government of Madras, Public Works Department.		Office to which Proposition refers.	Nature of Charge.													Proposition.					—
			Present Scale.						Proposed Scale.							Permanent.		Temporary.			
No.	Date.		Number.	Designation.	Pay.				Number.	Designation.	Pay.				Increase per Month.	Decrease per Month.	Increase per Month.		Decrease per Month.		
					Minimum.	Increment.	Maximum.	Fixed.			Minimum.	Increment.	Maximum.	Fixed.	Amount.	Amount.	Period.	Amount.	Period.	Amount.	
				Office Establishment.	RS	RS	RS	RS.		*Office Establishment.*	RS	RS	RS	RS.	RS.	RS.		RS.		RS.	
G.O., No. 3023 W.	9th December 1884.	Superintending Engineer's office, VI Circle.	2	Clerks at Rs. 15 per mensem.	..	..	..	30	2	Clerks at Rs. 15 per mensem.	..	..	..	30	..	..	..	..	..	..	
		Ramnad Estate Division.		*Engineer Establishment.*						*Engineer Establishment.*											
			1	Executive Engineer* ..	..	..	..	..	1	Executive Engineer* ..	..	..	..	..	..	..	..	..	..	..	* Amount not entered as the appointment is sanctioned in G.O., No. 975 W., dated 24th April 1885.
				Lower Subordinate Establishment.						*Lower Subordinate Establishment.*											
			1	Sub-Overseer	..	..	..	35	1	Sub-Overseer	..	..	..	35	..	..	..	..	..	..	
				Office Establishment.						*Office Establishment.*											
			1	Clerk	..	..	..	50	1	Clerk	..	..	..	50	..	..	..	..	..	..	
			1	Do.	..	..	..	30	1	Do.	..	..	..	30	..	..	..	..	..	..	
			2	Clerks	..	..	..	40	2	Clerks	..	..	..	40	..	..	..	..	..	..	
			1	Draftsman	..	..	..	40	1	Draftsman	..	..	..	40	..	..	..	..	..	..	
			1	Do.	..	..	..	20	1	Do.	..	..	..	20	..	..	..	..	..	..	
			1	Messenger	..	..	..	7	1	Messenger	..	..	..	7	..	..	..	..	..	..	
			1	Do.	..	..	..	6	1	Do.	..	..	..	6	..	..	..	..	..	..	
			3	Clerks	..	..	..	45	3	Clerks	..	..	..	45	..	..	..	..	..	..	
				Petty Establishment.						*Petty Establishment.*											
			6	Lascars for division office and subordinates.	..	..	..	36	6	Lascars for division office and subordinates.	..	..	..	36	..	..	..	..	..	..	
				Office Establishment.						*Office Establishment.*											
		Tanjore sub-division office.	1	Clerk	..	..	..	15	1	Clerk	..	..	..	15	..	..	..	..	..	..	
		Máyavaram sub-division.	1	Do.	..	..	..	15	1	Do.	..	..	..	15	..	..	..	..	..	..	
G.O. No. 1962 W.	11th Aug. 1884.	Overseer's office.	1	Clerk	..	..	..	15	1	Clerk	..	..	..	15	..	..	..	..	..	..	For employment under a temporary overseer attached to the Tanjore division.
				Petty Establishment.						*Petty Establishment.*											
		Tanjore division.	4	Lascars at Rs. 6 each ..	..	..	..	24	4	Lascars at Rs. 6 each ..	..	..	..	24	..	..	..	..	..	..	For three detached officers and one temporary overseer.
										Office Establishment.											
		Mannargudi sub-division.		....	..	..	..	..	1	Clerk	..	..	..	15	..	..	1	15	..	..	The services of this clerk are absolutely necessary.
				Petty Establishment.						*Petty Establishment.*											
			3	Lascars at Rs. 6 each ..	..		..	18	5	Lascars at Rs. 6 each ..	..	..	..	30	..	..	1	12	..	..	For employment under five detached officers.
				Petty Establishment.						*Petty Establishment.*											
		Trichinopoly division.	1	Lascar	..	..	..	6	2	Lascars at Rs. 6 each ..	..	..	..	12	..	..	1	6	..	..	For employment under two detached officers.
				Office Establishment.						*Office Establishment.*											
G.Os. Nos. 1962 W., and 2617 W.	11th Aug. 1884 and 24th Oct. 1884, respectively.	Madura division.	5	Clerks at Rs. 15 ..	..	..	..	75	5	Clerks at Rs. 15 each ..	..	..	..	75	..	..	..	..	..	..	Two for division office, one for sub-division office, Dindigul, one for detached officer Abdul Latif Sahib, one for Overseer Srinivasa Chariar.
				Petty Establishment.						*Petty Establishment.*											
			1	Lascar at Rs. 6.. ..	..	..	..	6	5	Lascars at Rs. 6 each ..	..	..	..	30	..	..	..	..	..	..	Two for detached officer Abdul Latif Saib, one for Supervisor Mr. Taylor, one for Supervisor Murugasum Pillai, one for Supervisor Nithiananda Moodelliar.
			4	Lascars at Rs. 6 each ..	..	..	..	24													
				Petty Establishment.						*Petty Establishment.*											
G.O., No. 1962 W. and Chief Engineer's memorandum No. 1206 C.	11th Aug. 1884 and 3rd July 1884, respectively.	Tinnevelly division.	2	Lascars at Rs. 6 each ..	..	..	..	12	2	Lascars at Rs. 6 each ..	..	..	..	12	..	..	..	..	..	..	
				Office Establishment.						*Office Establishment.*											
			1	Draftsman at Rs. 40 ..	..	..	..	..	1	Draftsman at Rs. 40 * ..	..	..	..	..	..	..	..	..	..	..	* Already sanctioned in G.O., No, 659 W., dated 17th March 1885.
				Total per Mensem ..	..	..	..	913	..	Total per Mensem ..	..	..	..	935	..	..	..	43	..	21	

Kodaikanal,
13th May 1885.

(Signed) H. R. MEAD, Lieut.-Col., R.E.,
Superintending Engineer, VI Circle.

Office note from the Examiner, Public Works Accounts, dated 29th May 1885, No. 153.

ORDER—dated 20th June 1885, No. 1439 W., Public Works.

The statement of temporary establishment required by the Superintending Engineer, VI Circle, during 1885-86 is sanctioned; but the provision therein made for upper subordinates and for accountants has been struck out, as they have been separately provided for.

2. This sanction has been registered as Provincial No. 22 W. of 1885-86, and classified as Establishment, Temporary.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, VI Circle.
„ Examiner, Public Works Accounts.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of (1885) Madras.

PUBLIC WORKS.

Dated June, 20th.

Recd. *Encl.*

G.O., 20th June 1885, No. 1439 W.

JUNE.

Temporary Establishment

Statement of — required by the Superintending Engineer, VI Circle, during 1885-86, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

Read—the following paper :—

From A. B. SAMPSON, Esq., Under Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 2nd February 1886, No. 167 G.

In reply to your letter, No. 171 W., dated 20th ultimo, I am directed to communicate the sanction of the Government of India to the continued employment, in the Ramnad Estate division, of Mr. W. S. Harington, Temporary Engineer, on Rs. 550 per month, for a further period not exceeding twelve months, with effect from the 16th May 1886.

Order—dated 8th February 1886, No. 346 W., Public Works.

Communicated to the Superintending Engineer, VI Circle, and to the Examiner, Public Works Accounts, in continuation of G.O., No. 1236 W., dated 28th May 1885.

(True Extract.)

(Signed) J. SHAW-STEWART, Col., R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, VI Circle.
„ Examiner, Public Works Accounts.

Exd. P. L. Pereira.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1886} Madras.

PUBLIC WORKS.

Dated February, 8th.

Recd. *Encl.*

G.O., 8th Feb. 1886, No. 346 W.

FEBRUARY.

Mr. W. S. Harington, Temporary Engineer

Letter from the Government of India sanctioning continued employment in the Ramnad Estate division of — for twelve months longer, communicated to the officers concerned.

No. 2525

Tinnevelly Division Office
Palamcottah 9th March

From,
The Executive Engineer
Tinnevelly Divisio

To,
The Superintending Engine
6th Circle
Trichinopoly.

Sir,

I have the honor to request you will be good enough to obtain Sanctio for the continued employment of the temporary Draftsman sanctioned in G.O. No. $\frac{890W}{1\text{-}4\text{-}84}$ up to 31st March 188 his services being much required, as there is a good deal of work to be don

It is difficult to lay down exac the work this man will be employed o beyond that he will assist generally in the Draftsman's work of the Office.

The permanent Establishment consisting of 2 Draftsmen is not sufficie for the work, and if a temporary man

is

is not sanctioned, there will be a great delay in the submission of Estimates. Estimates for a number of Police Stations and huts, and Sub Registrar's Offices have been called for. The field work for improving two channels of the Sittar River which are very much in need of improvements is ready, but owing to the paucity of Draftsman it will take a long time before the Estimates can be prepared.

In this connection, I may mention that statements which are difficult to prepare and which require the Draftsmen's attention are frequently being called for. of Grouping of Irrigation Works, lists of Component Works, lists of plans of irrigation Works, Statement of Works in form M I 86 &ca. From the number of plans and Estimates forwarded from this Division, you may form an idea of the amount of work to be got through.

Under these circumstances I hope you will apply for sanction for a temporary 2d Class Draftsman on Rs 40 per mensem for the whole year 1885-86, as the attainments of the 3d Class Draftsman now employed are of too low a standard.

I have &ca &ca

(Signed) A. M. Hayes.
Executive Engineer
Tinnevelly Division.

No. 757. T. N

(True Copy) Forwarded to the Chief Engineer Public Works Department who is requested to sanction the employment of a temporary Draftsman in Tinnevelly Division on Rs 40 a month from 1st April 1885 to 31st March 1886.

The Superintending Engineer considers this assistance is required.

Lieut Col R.E.
Superintending Engr 6th Circle

Supg Engr's Office 6th Circle
Trichinopoly 12th March 1885

From,

The Supg Engineer

6: Circle

To,

The Chief Engineer

P. W. D.

No. 757. T.N

Dated. 12: March/85

14 MAR 85

Temporary Draftsman

Requests sanction to the continued em-ployment of a — in the Tanjore Dn