

- (1) பக்கங்களின் எண்ணிக்கை 18
 (2) புதுக்கித் திருப்பிய நாள் 11. 4. 89
 (3) ஆதரங்குறிப்பவர் கருக்கொப்பம் 6-7

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

(17)

PWD துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	<u>904</u>	அச்சகம் பலவகை
நாள் : <u>26. 3. 1889</u>		

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

9 sheets

904

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following papers:—

No. 21 E.W.

Note by the Chief Engineer for Irrigation.

By the Government of India's orders on the budget for 1887-88, dated 17th March 1887, No. 33 A.I., the grant from Imperial funds under "43. Minor Works and Navigation" has been increased from Rs. 20,00,000 to Rs. 23,00,000 and provincialized. The total grant under Provincial, therefore, becomes Rs. 26,51,000.

2. In the Preliminary Issue of the budget printed with G.O., No. 4 I., P.W., dated 7th January 1887, the distribution of the Rs. 23,51,000, as proposed, was shown. It is proposed to leave this distribution undisturbed and to allot to the Tank Maintenance Scheme the additional Rs. 3,00,000 now granted, so that we shall have for Tank Maintenance Rs. 3,99,200.

3. Before allotting money for the Tank Maintenance, it is necessary to decide on what system the work is to be carried out and what establishments are to be allowed for; at present the establishment is quite disorganized, and it is most important that it should be re-organized and placed on a proper footing as soon as possible. Both Colonel Pennycuik and Major Campbell, who were in charge of the Tank Maintenance Scheme, considered that the former establishments should be considerably altered, and with this note is forwarded a note by Major Campbell with a comment by Colonel Pennycuik and a further note by the latter officer.

4. Both these officers consider it advisable that there should be a head to the Tank Maintenance Scheme in Madras, and suggest either that the appointment of Superintendent of Works in charge should be revived or that the work should be supervised by the Chief Engineer for Irrigation, his assistant being in charge of the office.

5. It is considered that the Assistant Chief Engineer for Irrigation cannot, in addition to his other duties, do this work properly, and a special officer for the purpose is therefore essential. It is proposed that an officer of the rank of about a 3rd-grade Executive Engineer should be selected to be in charge of the office and that he should be the Assistant to the Chief Engineer for Irrigation for the Tank Maintenance Scheme.

6. With regard to the strength of the parties working in the divisions, it is proposed to reduce them considerably below the strength that was formerly allowed. Major Campbell proposed, should money be available, to employ ten small parties, in as many districts, each party consisting of —

- 1 Assistant Engineer,
- 2 Overseers,
- 2 Surveyors,

with a small office establishment; he also proposed that no estimates should be made, but only levels, plans of works, hydraulic and revenue information, &c., be recorded, and that the estimates be prepared afterwards at such time as money might be available to start the works.

7. Colonel Pennycuik in his note, while agreeing in the scale of establishments proposed, considered that the estimates should be prepared at the time the plans, &c., were made, and considered that the survey, estimating and recording work should not be allowed to get too far ahead of the repair work of the tanks, and, in his note, proposed that, should Rs. 5,00,000 be available, seven parties, of the strength laid down by Major Campbell, be entertained.

8. The Chief Engineer for Irrigation agrees with Colonel Pennycuik and considers it most advisable that when the Tank Maintenance establishment examine a tank, they should not only collect and record all the information they have heretofore done, but they should also, as before, make the estimates, &c.

9. Doing this renders the work complete and will enable the works to be carried out as soon as money is available; it adds but little to the work if done at the time; but it would entail much work if done a year or two after the levels, &c., had been taken.

10. The following establishment is proposed for a party working in a basin:—

	RS.
1 1 Assistant Engineer	500
2 2 Overseers	160
2 4 Surveyors	320
2 2 Draftsmen	102½
1 4 Clerks	100
30 35 Lascars	210
Travelling allowance, contingencies, &c.	287½
Total per month	1,680
or per year	20,160

The number for each class, as proposed by Major Campbell, is entered in black type. The cost as estimated by Colonel Pennycuik was Rs. 18,000 per year, the main difference is that two extra surveyors are now allowed for and also four clerks in place of only one.

11. It is thought that an Assistant Engineer should be able to supervise well two parties, each of one overseer and two surveyors, and that more than one clerk should be allowed, as there must be considerable clerical work involved in collecting and recording the hydraulic and revenue details.

12. For the establishment to be attached to the office of the Chief Engineer for Irrigation, Major Campbell's proposals have been accepted, but an Executive Engineer, 3rd grade, has been added to be in charge of this establishment and supervise the important work to be done.

The establishment is as follows:—

	RS.
Executive Engineer	845
6 Clerks	416
7 Draftsmen	332
Messengers, &c.	48
Per month	1,641
Per year	19,692
Add for travelling allowance, contingencies, &c.	1,608
Total per year	21,300

The work to be done exactly as heretofore, as it is considered that no alteration should be made in the manner in which the plans, memoirs, &c., are drawn up.

12. Major Campbell's manual to be acted up to with the modifications rendered necessary by the alterations in the establishment.

13. Each party working under an Assistant Engineer to work in a tank basin, and to have convenient head-quarters, where the office will be established. One overseer with two surveyors will form a sub-party. The surveyors to take the necessary surveys, levels, &c., under the overseer's orders; the overseer to check them and to see that the surveyors do trustworthy work and a fair amount of it. The overseer to make plans of the masonry works in pencil on section paper; the surveyors to rough plot in pencil their own work. The overseer to send in these papers to the Assistant Engineer, and on orders from him, if necessary, to prepare the estimates or collect any additional information required.

14. The Assistant Engineer to complete in his office the plans and estimates in pencil in the rough and to send them direct to the office of the Chief Engineer for Irrigation to be fair copied and lithographed and printed.

15. The Assistant Engineers to have an imprest for petty expenditure, as also the overseers; all the accounts to be done in the divisional office of the district the party is at work in. The Assistant Engineer, of course, is to exercise a close supervision over his overseers and surveyors, to frequently inspect their work, and to decide on all engineering points; he will, of course, make all the important designs for works himself, type designs for ordinary works being followed as much as possible.

16. If the above proposal is accepted and the strength of the establishments be approved for the head office and the parties, it is thought that for the present three parties might be started, the cost being as follows per year:—

	RS.
For Head office	21,300
For three parties, at Rs. 20,160 per year	60,480
Total	81,780
Add for extra cost for lithographing and printing	3,220
Total	85,000

17. It is believed that the Chief Engineer has allowed in the proposed permanent establishment of the Public Works Department three Executive Engineers or Assistant Engineers of standing in each of the divisions in which tank operations are in progress.

18. It is supposed that as the total grant of Rs. 26,51,000 for expenditure on 43. Minor Works and Navigation now appears under Provincial, the Madras Government can expend any portion they think fit on temporary establishment which should of course be provided for in the Irrigation Budget, and that the pay of the surveyors and lascars employed for survey operations can be charged to Works, and the cost of lithographing and printing may also be met from Works.

If the above supposition is correct, the Rs. 85,000 required can be divided under the following heads:—

Chargeable to Provincial Service Budget under head of Permanent Establishment—

	RS.
Three Assistant Engineers	1,500
Travelling allowance for Assistant Engineers	330
Contingencies	42
Per month	1,872
Per year	22,464

Chargeable to Temporary Establishment to be provided for in the Irrigation Budget establishment proposed to be attached to the office of the Chief Engineer for Irrigation, as shown in appendix A—

Per year	RS.
as shown in appendix B—	21,300
Three parties of—	
2 Overseers	160
2 Draftsmen	192½
4 Clerks	100
Travelling allowance for Overseers	120
Lascars and sundries	73½
Per month	556
For three Parties per month	1,668
Per year	20,016
Total	41,316

Petty establishment chargeable to Works—

Surveyors per month	RS.
Lascars employed in surveying	320
	180
	500
For three parties	1,500
Per year	18,000
Add for lithographing and printing	3,220
Total	21,220
Grand Total	85,000

19. The budget for 1886-87 allowed for a Superintending Engineer with office at head-quarters; for four Executive divisions with four Assistant Engineers, twenty-four Upper Subordinates, &c., at a total cost of Rs. 1,60,480. Besides this there was a large establishment of surveyors, draftsmen, lascars, &c., charged to Works.

The total cost of the establishment actually employed was Rs. 2,01,924.

20. As at present only Rs. 3,99,200 are available for Public Works establishment, Tank Maintenance establishment, and for Works, it is proposed to spend only a total of Rs. 85,000 on establishments; this includes the whole establishment—permanent, temporary and petty.

21. There is at present employed in four districts the following establishment:—

24 Surveyors	RS.
24 Draftsmen	1,940
8 Clerks	880
120 Lascars	200
	720
Total	3,740

According to the proposed new scale the following is the establishment to be employed in three districts:—

6 Overseers	RS.
12 Surveyors	480
6 Draftsmen	960
12 Clerks	307½
111 Lascars	270
	669

As this is the case, there will have to be still further reductions in the establishment of surveyors and draftsmen, the best men of course being selected for employment.

It is thought that the three parties should work in Madura, Chingleput and Coimbatore districts.

* Distribution of grants.

22. A revised statement* based on these proposals is forwarded.

CHEPAK,
4th April 1887.

(Signed) H. R. MEAD, Colonel, R.E.,
Chief Engineer for Irrigation.

To the Chief Engineer, Public Works Department.

P.S.—With regard to the proposed establishments that are to be attached to the office of the Chief Engineer for Irrigation, it is considered to be more than required, hereafter should more funds not be available, and only three parties employed; it is however thought advisable to maintain it at its present strength as there is a large quantity of work (such as rough estimates, plans, &c.) to be reduced to proper shape and to be recorded.

Except in the case of the head-quarter office, the pay of the different members of the proposed establishment represents the average pay of the grade, the men will be classified and draw different class pay so that there may be chances of promotion for good men.

(Intld.) H. R. M.

ENCLOSURES.

A.

IRRIGATION AND NAVIGATION.

WORKS NOT CLASSED AS PRODUCTIVE.

DETAIL of the Budget Estimate of the Tank Maintenance Establishment to be attached to the office of the Chief Engineer for Irrigation for 1887-88.

No.	Particulars.	Rate of salary.	BUDGET ESTIMATE FOR 1887-88.		
			Per mensem.	Per annum.	Total.
—	1887-88.				
1	Executive Engineer, 3rd grade ..	RS. 700	RS. 845		
1	House-rent and Presidency allowance	145	220		
1	Clerk	88	88		
1	Do.	34	68		
2	Clerks	20	40		
2	Do.	88	88		
1	Draftsman	60	60		
1	Do.	54	54		
1	Do.	35	70		
2	Draftsmen	30	60		
2	Do.	10	10		
1	Muchi	8	8		
1	Head Messenger	6	12		
2	Messengers	6	18		
3	Lascars				
	Total Establishment		1,641	19,692	..
	Travelling Allowance			460	..
	Contingencies			1,148	21,300

(Signed) H. R. MEAD, Colonel, R.E.,
Chief Engineer for Irrigation.

No. 24 E.W.

Note by the Chief Engineer for Irrigation.

The proposal made in Note No. 21 E.W.* having been discussed with the Chief Engineer, and it being found that the whole of the Engineer establishment required can be provided from the permanent establishment, the following revised proposal for establishments for the Tank Maintenance Scheme is put forward; each party in the divisions to consist of an Executive or Assistant Engineer provided from the permanent establishment with the following:—

2 Upper Subordinates	..	..	..	..	..	..	..	Rs.
4 Surveyors	..	..	..	..	..	..	..	200
2 Draftsmen	..	..	..	..	..	..	..	320
4 Clerks	..	..	..	..	..	..	..	105
35 Lascars	..	..	..	..	..	..	..	100
Travelling allowance and contingencies	..	..	..	..	..	..	..	210
								240
Per month	..	..	..	..	..	..	..	1,175
Per year	..	..	..	..	..	..	..	14,100

It is proposed to have four of these parties at a cost of Rs. 56,400. Of the above establishment, the following to be charged as Petty to Works:—

4 Surveyors	..	..	..	..	..	..	..	Rs.
30 Lascars	..	..	..	..	..	..	..	320
								180
One Party, per month	..	..	..	..	..	..	..	500
Per year	..	..	..	..	..	..	..	6,000
Four Parties, per year	..	..	..	..	..	..	..	24,000

Deducting this Rs. 24,000 from the total Rs. 56,400, the actual cost of the four parties chargeable to temporary establishments is Rs. 32,400.

To this has to be added the cost of the temporary establishment attached to the office of the Chief Engineer for Irrigation, viz.:—

6 Clerks	..	..	..	..	..	..	..	Rs.
7 Draftsmen	..	..	..	..	..	..	..	416
Messengers, &c.	..	..	..	..	..	..	..	332
								48
Per month	..	..	..	..	..	..	..	796
Per year	..	..	..	..	..	..	..	9,552
								1,148
Total	..	..	..	..	..	..	..	10,700
Contingencies	..	..	..	..	..	..	..	
Grand Total	..	..	..	..	..	..	..	43,100

chargeable to temporary establishments. A sum of Rs. 4,000 should be added to works for cost of lithographing, printing, &c.

The total establishment proposed to be employed on the Tank Maintenance Scheme is as follows:—

From the permanent establishment chargeable to Provincial Services Budget—

One Executive Engineer in the office of the Chief Engineer for Irrigation.
Four Executive or Assistant Engineers in charge of parties.

Chargeable to temporary establishments to be provided for in the Provincial Irrigation Budget—

For four Parties	..	..	..	..	..	..	..	Rs.
For the establishment attached to the office of the Chief Engineer for Irrigation	..	..	..	..	..	..	..	32,400
								10,700
Total	..	..	..	..	..	..	..	43,100

Petty establishment chargeable to Works, surveyors and lascars—

With the four Parties	..	..	..	..	..	..	..	Rs.
For lithographing, printing, &c.	..	..	..	..	..	..	..	24,000
								4,000
Total	..	..	..	..	..	..	..	28,000

making a grand total of Rs. 71,100, exclusive of the officers provided from permanent establishment and allowed for in the Provincial Service Budget.

A revised distribution statement of grants based on the above is forwarded, and it is proposed to prepare the final Irrigation Budget accordingly.

11th April 1887.

(Signed) H. R. MEAD, Colonel, R.E.,
Chief Engineer for Irrigation.

To the Chief Engineer, Public Works Department.

ORDER—dated 21st April 1887, No. 1103 W., Public Works.

The proposals of the Chief Engineer for Irrigation for continuing the work of the Tank Maintenance Scheme are approved, and arrangements will be made for carrying them into effect as early as practicable.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Chief Engineer for Irrigation, with copy of
Note by the H. M.

„ Superintending Engineers.
„ the Examiner, Public Works Accounts,
„ the Revenue Department,

Exd. A. Raitt.
Spare Copies

GENERAL.
ESTABLISHMENT.

Gobt. of (1887) Madras.
PUBLIC WORKS.

Dated April, 21st.

Recd.

Encl.

G.O., 21st April 1887, No. 1103 W.

APRIL.

Tank Maintenance Scheme.

The proposals of the Chief Engineer for Irrigation for continuing the work of the —, approved.

Public Works Department

Proceedings of the Madras Government

No. 1349 W dated 8th May 1888.

964

In accordance with the authorisation of the Government of India, communicated with endorsement No 92 B dated 22 nd February 1888, His Excellency the Governor in Council resolves to invest Mr G. T. Walch, Superintending Engineer, with the following powers of sanction :-

Under Public Works Code para 267

Original Works

(a) Buildings & Roads.

44 . Military Works, and

45 . Civil Works

Rs 10000

(2) Irrigation

42 . Minor Works (Working Expenses)

X — 43 . Minor Works & Navigation

Rs 10000

(c) Subsidiary works for projects for which Capital &

Revenue Accounts are kept

Rs 10000 .

2. The conditions under which these enlarged powers of sanction will be exercised will be the same as those hitherto in force, as laid down in para 267 of the code .

(True Extract)

(Signed) J. O. Hasted, Colonel R. E.

Secretary to Government P. W. D.

To
The Suptg. Engineer I Circle.
Examiner P.W. Accounts.
Chief Engineer for Irrigation.

Sp. 13249 W 8. 5. 88

904

7

No. 1103 Wd 21-4-87

1889.

P. W. DEPARTMENT

Current No. 1892

From The Chief Engineer
for Irrigation

ENCLOS.—

No. 14 E. W.

Dated Feb'y 1889.

Received 27-2-89

SUBJECT.

Suggesting that the powers
to be exercised by the
Chief Engineer for Irrigation
in regard to sanctioning
of estimates of Tank Restora-
tion works may be defined
& laid down.

DISPOSAL.

No. 1038 C Dated 1st March 1889

To

For favour of
remarks.

94/3 (2d) W. L. C. B.

(2d) H. R. M. 27-2-89
1/3/89. D. W.

note by the Ag Chief Engineer for Irrigation

90K No 14 E. W.

Under G.O. No. 1103 Wd. dated 21st April 1887 the
Central office of the Tank Restoration Scheme
is attached to this office and with reference to
investigation and the sanctioning of estimates
the Chief Engineer for Irrigation is in a position
analogous to that of a Superintending Engineer.

2 It has been the practice to sanction
estimates on the assumption that the Central
office could exercise the powers of a Super-
intending Engineer but in the absence of a definite
rule this procedure does not seem to be
strictly regular.

3 It is suggested that the powers to be
exercised by the Chief Engineer for Irrigation
in this connection may be defined and
laid down.

C. Swales

Chesham
February 1889

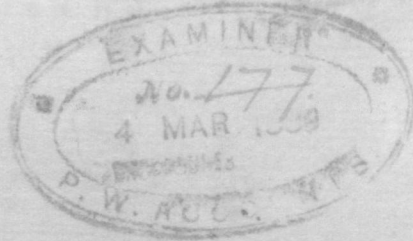
Ag Chief Engineer for Irrigation

To The Chief Engineer P.W.D.

Q.O. 1103 Waf. 21. 407
- 1349 Waf. 8.5.88

1892

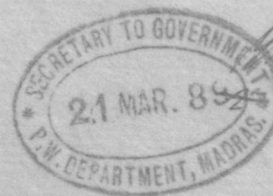
No. 1038 C of 1st March 1889



To
C
For favour of
remarks.

Re 27/2/89

W. A. C. S.
27.2.89
D. W.



1/2/89

No 372 of 20th March 1889

To W.

No. 904 Waf. 26th March 1889

It seems desirable that Government should rule that the Chief Engineer for Irrigation has the powers of a Supg. Engineer as far as Tank Restoration Works are concerned, which powers have hitherto been exercised by him.

H. R.

for C.

H. R.
3.
H. R. 20/3

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 26th March 1889

Read the following

904

From the Ch. E. of the 12th S.W. 3 - Feb. 1889
" " En. Prov. - 372 of 20. 3. 89.

The Chief Engineer for Irrigation will exercise the powers of a Supg. Engineer with respect to Tank Restoration Works. His powers of sanction under Original works & 3 minor works & navigation will be fixed at the maximum limit of Rs. 10,000.

M. S.
23 Mar

+ This is the only head under which powers are required.

9

Ch. E. of S. 1st
En. Prov. 27/3

C.

M. S.
21/3/89

~~Hand~~

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