

Public Works

~~MINN~~ (1899) Department.

G.O., No. 129 W
DATED 16th January 1899

18/1/99

Establishment [Despatch Abstract.]

Sanctioning, with remarks, the
entertainment, to and of ^{Feb 1899} ^{two}
Company draftsman ^{for} ^{in the} Office of the
Chief Engineer for Immigration, D. R. S.

227/1 90/4 13

Sanctioning, with remarks, the entertainment to end of February 1899 of two temporary draftsmen on Rs. 35 each per mensem in the office of the Chief Engineer for Irrigation, Tank Restoration Scheme.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

READ—the following paper:—

No. 2764 T.

Note by the Chief Engineer for Irrigation, Tank Restoration Scheme.

A note dealing with the arrears of Minor Basin Memoirs now accumulating in the Tank Restoration Scheme office and proposing a re-organization of the office establishment to clear off all such arrears in about three years is now under consideration of Government. The corresponding arrears of plate work are, however, equally numerous and more difficult to overtake as the mapping can only be done by specially trained draftsmen.

The present establishment of two draftsmen and one tracer can at present barely keep pace with the new minor basins entered on each year. A circular has been recently issued to the Party officers pointing out the defects that are chiefly noted in the maps prepared by them and indicating the additional information that can be added with a view to lightening the work now done in the head office. When this is done it is hoped that no difficulty will be experienced in keeping up with the current work. It is, however, quite hopeless to expect them to give any assistance in working off the arrears unless the quality of the work is to be allowed to deteriorate.

The plates published consist of an index map, scale 1 inch to the mile, showing all the tanks by groups, with their catchment areas, supply and surplus channels, and positions of sluices and escapes marked as clearly as the scale admits; also of group maps, on a scale of either two or four inches to the mile, showing more clearly the information already given for the greater part by the index map; and finally plans, sections, &c., of the more important masonry works.

The number of plates to be prepared is therefore considerable, and so is the time expended on them. The arrears of Minor Basin Memoirs are expected to be worked off in about three years, but to finish off the corresponding arrears of plates on the above lines, in the same time, would necessitate an increase to the office establishment of seventeen men.

As an alternative it is proposed to prepare for the arrears of minor basins only the index map, on the same scale as before; and in addition to the usual information to indicate by means of conventional signs, the exact position of all sluices escapes, &c., and so dispense with the enlarged group maps. These index maps to be mounted on cloth and bound up with the Memoirs. In this way all the information that is more generally required can be bound up in one volume at an immense saving in time and labour. The group maps and plans usually issued will remain on record in the office to be subsequently published if found desirable. Meanwhile, the existing establishment will confine its attention to the current work and continue to prepare the volume of plates on the same lines as before.

The draftsman now engaged on the preparation of index maps deals with, on the average, 185 square miles of river basin per mensem or say 2,200 square miles in a year; the arrears of 39 minor basins, consisting of 15,814 square miles, could therefore be completed, at the same rate, by two men in about three and a half years. Two men could probably be found capable of doing this mapping work from among the twelve draftsmen and tracers now employed in the office, and their average pay might be fixed at, say, Rs. 35 per mensem. This, however, can only be ascertained on trial and these figures are merely tentative. Assuming them to be correct, the cost of working off these arrears and adding enormously to the value of the Memoirs to be published, would be Rs. 2,940, i.e., two draftsmen on Rs. 35 per mensem for three and a half years.

2. Having dealt with the arrears of Memoirs and Plates, the only other arrears in the office are the accumulations of the repair estimates as received from the parties, and these seem to be in a fair way towards being worked off.

For the seven months of the current official year the drawing branch have been checking and issuing, on the average, estimates to the value of Rs. 45,445 per mensem and have reduced the number of arrears from 308 to 197 and the amount from Rs. 2,72,295 to Rs. 2,04,984. At this rate of progress all will be worked off in from eighteen months to two years. There are no estimates remaining of an earlier date than 1897 and very few have been in the office for a longer period than eighteen months. This good result is mainly due to the industry shown by the head draftsman M. Vasudeva Iyer, who has been well seconded by all the members of the branch.

3. A proposition statement for the temporary increase of the office establishment by two draftsmen on Rs. 35 per mensem is enclosed. This will require renewed sanction for a period of three or four years, by which date it is expected that all arrears in memoirs, plates and estimates will be cleared off.

(Signed) R. N. H. REID,

24th November 1898.

for Chief Engineer for Irrigation, T.R.S.

ENCLOSURE.
STATEMENT of Proposition for Revision of Establishment.

Order sanctioning present establishment, Government of Madras, Public Works Department.	Number and Date.	Office to which the proposition refers.	Nature of changes.										Remarks.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			Present scale.					Proposed scale.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			No.	Designation.	Pay.			No.	Designation.	Pay.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					Minimum.	Increment.	Maximum.			Average or fixed.	Total cost.	Minimum.		Increment.	Maximum.	Average or fixed.	Total cost.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

Read the following:—

From the Chief Engineer for Irrigation F.R.S. No. 2764 T of 24-11-98.

Circulated to

sent out
N-129 Wg 16 Jan-99
ORDER.

In the circumstances explained, sanction is accorded to the entertainment, to end of February 1899, of 2 temporary draftsmen on Rs 35/- each per mensem required in the office of the Chief Engineer for Irrigation, Tank Restoration Scheme.

2. This establishment will not be allowed for a longer period than 4 years at the most, and the Chief Engineer ^{for Irrigation} will keep a careful watch over the work of the staff attached to the Tank Restoration Scheme, and endeavour to work off all arrears in memoirs, plans, and estimates before the expiry of this period.

1294

Read the following:--

3. The sanction accorded in para 1 has been registered as Provincial No. 104 W of 1898-99, and classified as Establishment Temporary -

APK
10-1-99.

W. H. C. 11-1-99.

Inf

From the Chief Engineer for Irrigation, T. R. S. No. 2764T dated 24/10/98

Entertainment of 2 additional draftsmen on Rs 35 and 1 man in the office of C E for Irrigation T. R. S.

Circulated to

H. W. Excellency to Government

FOR ORDERS.

Flag F

Flag E

In his office note No. 2518T dated 27th October, 1898, the Chief Engineer for Irrigation, T. R. S., brought to notice that the preparation of Minor Basin Memoirs was much in arrears, and to clear off these arrears, that officer proposed to abolish the appointment of a clerk on Rs 80 and to utilise the amount in entertaining 2 additional clerks and 1 additional draftsman. This proposal was approved in G. O. No. 3038W dated 25 November, 1898.

2. The Chief Engineer now represents that as the arrears of the Descriptive Memoirs are worked off, there will be corresponding arrears of plate work

To
The Chief Engineer for Irrigation
T. R. S.
" Examiner P. W. Accounts.

work, which are equally numerous and more difficult to ^{clear off} ~~overhaul~~, as the mapping can be done only by specially trained draftsmen. The present establishment employed on this work can, it is reported, barely keep pace with the new Minor Basins entered ^{during} on each year. The plates published consist of index maps, group maps, and finally plans, ^{sections} ~~figures~~ &c. If the arrears of plates are to be completed on these lines, the Chief Engineer states that, to clear off the arrears in about 3 years, it will be necessary to strengthen the office establishment by 17 additional men.

As an alternative, he suggests that for the arrears of Minor Basins, only index maps need be prepared, and group maps and plans dispensed with, and calculates that the arrears can be worked off by 2 men in about $3\frac{1}{2}$ years.

A proposition statement for the entertainment of 2 additional temporary

temporary draftsmen on Rs 357 each has accordingly been submitted for sanction, and this will require renewed sanction for about 3 or 4 years, by which date it is expected that all arrears in memoirs, plates, and estimates will be cleared off.

It is a pity that these arrears have been allowed to accumulate, and not brought to notice earlier.

As the additional establishment applied for is absolutely necessary to clear off the arrears, it is recommended that sanction be accorded to it.

The Chief Engineer for Irrigation may be told to keep careful watch ^{over} on the work of the staff attached to the office of the F.R. Scheme, and to endeavour to clear off all arrears before the expiry of the period specified in his note.

APK

16.12.98.

17.12.98

May

On this strong recommendation, this additional temporary establishment is approved.

A.S.H.

Let this be enjoined on the C.E.

A.S.H.

4.1.99

Public Works (1898) Department.

CURRENT No. 9769

Order

From W. Hughes Esquire,
Chief Engineer for Irrigation
I.R.S.

No. 2764 -T.

Dated 24. 11. 98

Received

Registered } 25. 11. 98

Enclosures /

Spare copies

SUBJECT.

Temporary establishment
for Head office I.R.S. scheme —
forwards for sanction proposition
statement for —

BACK PAPERS.

FURTHER PAPERS.

P. W. D. Form No. 113.

500-14-2-98

No. 384 P. W.

NOTES.

Reference to P. W. D. Code.

Chapter I, Para. 30.

1. All proposals for changes in the scales of permanent establishments must be accompanied by a statement in Part I of this form when the changes relate to the engineer or upper subordinate establishments and in other cases by a statement in Part II of this form.

2. The column headed "present scale" should invariably show the existing *sanctioned* scale (not the strength of the establishment as it actually stands at the time), and should be verified by the Examiner before the statements are forwarded to the sanctioning authority.

MADRAS PRESIDENCY.

Part II.

Tabular Statement to accompany proposals for changes in establishments.

Statement of proposition for

revision of establishment.

Dated the _____ 189

18
No. 2764 T. Dated 24 November 1898.
Encls. 1.

Note by the Chief Engineer for
Irrigation, Tank Restoration Scheme.

A note dealing with the arrears of Minor Basin Memoirs now accumulating in the Tank Restoration Scheme Office, and proposing a re-organization of the Office establishment to clear off all such arrears in about 3 years is now under consideration of Government. The corresponding arrears of Plate work are, however, equally numerous and more difficult to overtake as the mapping can only be done by specially trained draftsmen.

The present establishment of 2 draftsmen and one tracer can at present barely keep pace with the new Minor Basins entered on each year. A circular has been recently issued to the Party Officers pointing out the defects that are chiefly noted in the maps prepared by them and indicating the additional information that can be added with a view to lightening the work now done in the Head Office. When this is done it is hoped that no difficulty will be experienced in keeping up with the current work. It is, however, quite hopeless to expect them to give any assistance in working off the arrears unless the quality of the work is to be allowed to deteriorate.

The Plates published consist of an index map, scale 1" to the mile showing all the tanks by groups, with their

5313965
1/20

catchment areas, supply and surplus channels, and positions of sluices and escapes marked as clearly as the scale admits; also of Group maps, on a scale of either two or four inches to the mile, showing more clearly the information already given for the greater part by the index map; and finally plans, sections &c., of the more important masonry works.

The number of Plates to be prepared is therefore considerable, and so is the time expended on them. The arrears of Minor Basin Memoirs are expected to be worked off in about three years, but to finish off the corresponding arrears of Plates on the above lines, in the same time, would necessitate an increase to the Office establishment of 17 men.

As an alternative it is proposed to prepare for the arrears of Minor Basins only the index map, on the same scale as before; and in addition to the usual information to indicate by means of conventional signs, the exact position of all sluices escapes &c., and so dispense with the enlarged Group maps. These index maps to be mounted on cloth and bound up with the Memoirs. In this way all the information that is more generally required can be bound up in one volume at an immense saving in time and labour. The Group maps and plans

usually

28
usually issued will remain on record in the Office to be subsequently published if found desirable. Meanwhile the existing establishment will confine its attention to the current work and continue to prepare the volume of plates on the same lines as before.

The draftsman now engaged on the preparation of Index maps deals with, on the average, 185 square miles of river basin per mensem or say 2,200 sq. miles in a year; the arrears of 39 Minor Basins consisting of 15,814 square miles, could therefore be completed, at the same rate, by two men in about $3\frac{1}{2}$ years. Two men could probably be found capable of doing this mapping work from among the twelve draftsmen and tracers now employed in the Office and their average pay might be fixed at say Rs. 35 per mensem. This, however, can only be ascertained on trial, and these figures are merely tentative. Assuming them to be correct, the cost of working off these arrears and adding enormously to the value of the Memoirs to be published, would be Rs. 2,940 i.e. 2 draftsmen on Rs. 35 per mensem for $3\frac{1}{2}$ years.

2. Having dealt with the arrears of Memoirs and Plates the only other arrears in the Office are the accumulations of the repair estimates as received from the parties, and these seem

seem to be in a fair way towards being worked off.

For the seven months of the current Official year the drawing branch have been checking and issuing, on the average, estimates to the value of Rs.45,445 per mensem, and have reduced the number of arrears from 308 to 197 and the amount from Rs.2,72,295 to Rs.2,04,984. At this rate of progress all will be worked off in from 18 months to 2 years. There are no estimates remaining of an earlier date than 1897 and very few have been in the Office for a longer period than 18 months. This good result is mainly due to the industry shown by the Head Draftsman M. Vasudeva Iyer, who has been well seconded by all the members of the branch.

3. A proposition statement for the temporary increase of the Office establishment by 2 draftsmen on Rs.35 per mensem is enclosed. This will require renewed sanction for a period of 3 or 4 years, by which date it is expected that all arrears in Memoirs, Plates and Estimates will be cleared Off.

R. V. S.

For Chief Engineer for Irrigation,

T.R.S.

2/3-11-98